

Bewator and Siemens Security Products

£ Sterling Catalogue & Price List 2007



BEWATOR

A Siemens Business

Introduction

Introduction

Welcome to the 2007 edition of the new Bewator and Siemens Security Products combined Access, Video and Intrusion Control Catalogue. We hope you find all the necessary information required to buy and install a wide variety of innovative security solutions.

This guide should act as a useful tool for sourcing any of your access control requirements and prove an effective point of reference. If however, you need any further assistance please contact us by phone or visit our website.



Profile

Bewator (a subsidiary of Siemens Building Technologies Group since November 2005) is Europe's leading supplier of innovative security products and systems, encompassing Access Control, CCTV, Intruder and Integrated Security Management Systems.

Siemens Building Technologies (SBT) is a division of Siemens AG and combines building security and building automation solutions within a single company. SBT has fire and security operations world-wide and Siemens is one of the world's largest electrical engineering and electronics companies, with a global workforce of more than 461,000 employees.

Bewator Limited serves the UK and the Republic of Ireland for pre-qualification, supply, training and after sales support for all security products bearing the Bewator and Siemens brands; Bewator Limited is an active member of the British Security Industry Association and is an ISO9001 approved company.

All Bewator and Siemens products meet international standards including FCC and CE

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Contents

	Page No.
Introduction	2
Access Control Products	7
Access Control Systems	9
Reader & Card Technology	65
Standalone Solutions and Door Entry Phones	89
Healthcare & Asset Protection Products	117
Accessories	129
Video Control	169
Camera Equipment and Hardware	171
Flameproof Equipment	209
Control Equipment, Recording and Monitors	217
Electronic Accessories	265
Intrusion Products	271
Appendices	291
Access, Video and Intrusion Glossary of Terms	291
Technical Support and Service Department	309
Conditions of Sale	310

Introduction

Ordering Details

Placing your order

Please refer to the Contact Information overleaf and on the back cover. All orders must be placed in writing by fax or letter. Please note there is a minimum order value of £100

Conditions of Sale

All business is subject to our published Conditions of Sale, which can be found at the end of this Buyer Guide and Price List

Pricing

Prices are in £ Sterling, ex-works and exclude VAT. Prices are Recommended Retail Prices (RRP) and subject to your applicable discount, except where stated. No further discounts apply to NET prices

Payment Terms

Terms for account customers are detailed in the Conditions of Sale. Non-account customers must pay in full before we can deliver an order. Credit card payments are available

Repairs

Units which fail in warranty will be repaired free of charge, subject to Warranty Conditions. Please refer to the Conditions of Sale for full details of our warranty policy.

A standard repair charge for each product applies if the unit is out of warranty. This also applies to equipment which has been damaged or tampered

Customer Services

Our sales, order processing and technical teams are on hand to support you via phone or email during normal working hours. The sales team are also happy to help you with quotations, literature and customer presentations. Other technical services available include training courses, site visits and commissioning

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*Mainland UK Carriage & Packing per order

For UK Mainland Shipments

	'Standard'	Next Day AM	Next Day Pre-9AM
Up to 20kg	£10	£20	£40
20-50kg	£25	£35	£55
50-100kg	£45	£55	£75
Over 100kg	Please ask for a Quotation		

Saturday Morning delivery available at 'Next Day Pre-9AM' rates

For NI and UK offshore Islands

	'Standard'	Next Day AM	Next Day Pre-9AM
Up to 20kg	£30	£50	N/A
20-50kg	£50	£60	N/A
Over 50kg	Please ask for a Quotation		

Note that carriage and packing for deliveries outside mainland UK will be charged at cost.

** Bewator Limited cannot be held responsible for late deliveries caused by our carriers.*

Warranty – Return to Base, Limited Repair Warranty

Bewator Branded Warranty Periods:

3 Years - Electro mechanical products

3 Years - Electronic products

2 Years - Eventys range

Siemens Branded Warranty Periods:

1 Year Minimum - Please contact Sales Support for full product listings

Accessories Range Warranty Periods:

1 Year

Contact Information

We have dedicated telephone numbers for the support team and individuals who are best able to deal with your requirements. Using these numbers will ensure your needs are met in the shortest time. If you wish to talk to any other individual in the company please call the main switchboard number.

Sales Support

Phone: 0871 386 0810
Fax: 0871 386 0888
E-mail: sales.support@bewator.co.uk

Technical Services Department

Phone: 0871 386 0820
Fax: 0871 386 0888
E-mail: technical@bewator.co.uk

Service Department (Returns and Repairs)

Phone: 0871 386 0880
Fax: 0871 386 0888
E-mail: service@bewator.co.uk

Credit Control

Phone: 0871 386 0853
Fax: 0871 385 0888
E-mail: creditcontrol@bewator.co.uk

Marketing

Phone: 0871 386 0835
Fax: 0871 386 0888
E-mail: marketing@bewator.co.uk

Main Switchboard

Phone: 0871 386 0800
Fax: 0871 385 0888

Postal and Deliver Addresses

Head Office
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Llantarnam Park
Cwmbran
NP44 3AB

Website

www.bewator.co.uk

Introduction

Training and Development Centre

Bewator has been at the forefront of innovative security technologies ever since its first security product was launched 25 years ago, and has become a market leader in Access Security, which encompasses Access Control, Video Control, and Integrated solutions. Bewator solutions ensure security investments are protected in the long run: their open architecture means that existing systems can be expanded or upgraded easily, and they offer a smooth transition towards networked systems and remote security management.

With CCTV control & recording equipment responding to alarms triggered by Access, Fire or Intruder control devices, Bewator Security Solutions offer the ultimate tools in alarm response and management, evidence recording and crime prevention.

It is this expertise and principles we are now looking to bring to the security professionals in the UK, and our Training Centre underlines our commitment to providing customers with the information and technology they need to meet their specific security requirements.

Our training courses have been designed to offer delegates a rare insight into the technical and visionary concepts of the access security industry, and enable security professionals to:

- Increase the service level to customers
- Get real insight into new technology
- Benefit from expert advice on system integration
- Increase their expertise in modern security solutions
- Get real hands-on experience with our latest security products

How and where we train

Each section of the training courses combines theory and hands – on practical sessions. At the end of each training course, the delegates' knowledge is tested to ensure the minimum level of understanding has been achieved.

How to book

To book your course, visit www.bewator.co.uk/training or email training@bewator.co.uk or call Sales Support on 0871 386 0810, with your course requirements and the number of participants. Please note Terms and Conditions apply to bookings, payments and cancellations.

Training Visits

Separate to our standard training courses, we can offer tailored training for your particular requirements. There is a daily rate and if an overnight stay is required then you will be required to cover this additional expense. You will be asked to fill in a training visit request form and to supply a purchase order before the training visit takes place.

For training visits outside England and Wales it is possible to combine your needs with other resellers in your area. A longer more structured course can then be arranged. Areas outside England and Wales will incur additional travelling costs and you will be required to meet these (airfare, trains, taxis etc.). Please speak to your Area Sales Manager for prices and available dates.



Bewator Access Control Products provide a secure method of protecting premises and staff, whilst causing as little restrictions as possible on freedom of movement.

Ranging from the PC based systems like Granta and the award winning Entro to Standalone products including Entro Lite, Codoors, Codelocks and Door Entry Phones, Bewator Access Control Products are suitable for all types of premises requiring a cost effective Access Security solution.



Access Control - CCTV - Intrusion Detection.

You too can now benefit from an even more comprehensive product offering, precision designed technology and the renowned high quality of Bewator and Siemens products - Bewator has extended its existing range of Access Control and CCTV products and now brings to the UK market the latest range of Siemens monitors, fixed cameras and domes, digital solutions and intrusion detection products. It's all available from Bewator, and it's available NOW.

For more information, contact Bewator on: 0871 386 0841 or email sales@bewator.co.uk

The power of 3

Introducing our new, extended range of Access control, CCTV and Intrusion Detection products.

Moving forward with Siemens

**BEWATOR**

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Bewator Access Control Systems provide a secure method of protecting premises and staff, whilst causing as little restriction as possible on freedom of movement.

Ranging from Entro Lite, the award winning Entro System to our Granta Security Management System. Both our Entro and Granta systems can be integrated with DVRs to provide a sophisticated security solution.

Which ever Bewator Access Control System you choose, you can be certain of providing a cost effective, yet secure security solution.



Entro Lite	11
Controllers	13
Readers	14
Cards & Tags	16
Networking Interfaces	17
Entro 5	19
Starter Packs	22
Software & Video Badging Packages	23
Segment Controllers	26
Reader Packs	27
Door Controllers & Interfaces	28
Readers	30
Cards & Tags	32
Accessories	33
Granta Security Management System	35
Software & Video Badging Packages	38
Controllers	42
Modules	48
Granta Primo	50
Readers	56
Cards & Tags	58
Power Supplies, Cables & Accessories	59
Video Integration	63



“It’s time to **switch 2** Entro Lite”

The truly flexible solution

As your business expands, so does Entro Lite with 1 to 500 doors access control. Look no further for your first step to access control, easy to use and easy to upgrade to Entro.

For Further information please contact us on 0871 386 0835



BEWATOR

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Entro Lite is a new Access Control System from Bewator. It has been designed for ease of use, to be cost effective and flexible in how you choose to install it.

The new DC800 Door Controllers can be installed as Standalone, one door means one controller and can utilise any of Bewator's suite of Readers, or can be networked together using a simple USB Interface and new Entro Lite software and then at any time be upgraded to Bewator's powerful Entro 5 access control system without any hardware redundancy.

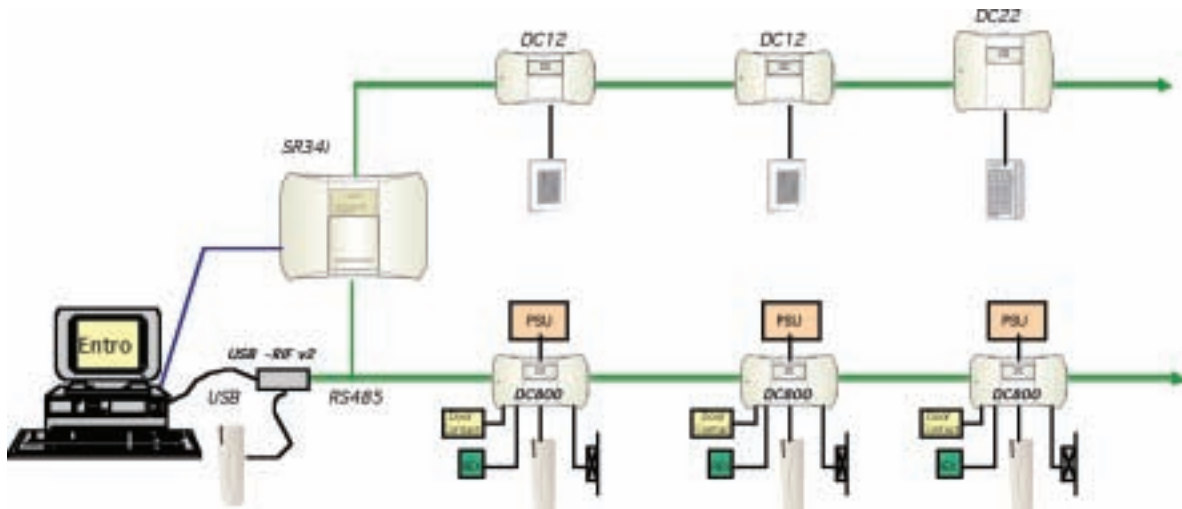


- Simple to quote and easy to install – one door means one controller, all you need to do is add a Reader
- Standalone or networked
- Works with the full suite of Bewator Readers
- Simple, but powerful Entro Lite software
- Fully upgradeable to Entro 5, without any hardware redundancy

The DC800 Door Controller used in Standalone mode, controlling all actions at the required door



DC800 Door Controllers networked together using Entro Lite software and the USB-RIF/2 Interface



Entro Lite networked system upgraded to Entro 5 without any hardware redundancy

Door Controller

Model No.

DC800



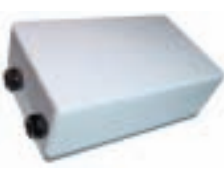
General Description	Entro Lite Controller. Can be used as either a Standalone Door Controller, networked (maximum of 8 Controllers) using Entro Lite software and then can be upgraded without any hardware redundancy to Entro 5. Can control any Reader from Bewator's comprehensive range and Clock & Data, Wiegand 26bit/32bit and 8bit burst
Standalone	Controller for one door, 1000 cards/tags, RS485 interface, 1000 event buffer, Full door control, Warning/Alert relay output, Antipassback (In and Out Readers), Bank Lobby Function (common card), Programmed via internal keypad, replaces BC-640-KP Single Standalone Door Controller. Can control any Reader from Bewator's comprehensive range and Clock & Data, Wiegand 26bit/32bit and 8bit burst
Networked	Network up to 8 DC800 Door Controllers together using Entro Lite software and USB-RIF/2 USB Interface (supplied together)
Entro 5 Upgrade	Upgradeable to Entro 5 providing the full functionality of Bewator's award winning PC software (see page 19 for Entro 5) without any hardware redundancy
Dimensions H x W x D (mm)	182 x 248 x 66
Temperature	0 to 50 °C
Environmental	Internal use only
Electrical	8 - 40Vdc 8 - 30 Vac, 100mA
Housing	Wall mounted composite housing
Cable Length	Maximum 1000 metres (RS485)
Price £ R.R.P.	149.00

Entro Lite

Readers

Model No.	PR500-AB	SP500-AB	HD500-2-AB	PM500-AB
				
General Description	Proximity Reader, mullion mount. Designed to suit door architraves and compliment all working environments	Switch Plate Proximity Reader. Designed to fit most single gang back-boxes	Heavy Duty Proximity Reader. Designed for both modern office environments and vulnerable locations	Panel Mount Proximity Reader. Designed to fit most remote 3rd party panels, such as Door Entry Phones
Price £ R.R.P.	160.00	160.00	175.00	160.00

Model No.	BC-43Prox	HF500-Entro	BC-5511	HFG500-AB
				
General Description	Proximity Reader with built-in keypad Offers the possibility of combined access control with both a card and a PIN	Hands-Free Reader. Offering unrivalled reading range using Cotag® Active Technology, internal use only	Hands-Free Reader Pack. Offering unrivalled reading range using Cotag® Active Technology	Hands-Free 'Glass' Reader. 300mm x 300mm, suitable for screening with corporate logo
Price £ R.R.P.	287.00	349.00	405.00	1,535.00

Model No.	HFG500E-AB	BC-5270	BC-5516
			
General Description	Hands-Free 'Glass' Reader. 300mm x 1000mm, suitable for screening with corporate logo	Integrated Loop Reader Pack. Features Cotag® Technology. Provides, by a buried loop in the ground or round a door	Loop Reader Pack. Features Cotag® Technology. Provides, by a buried loop in the ground or round a door, suitable for AVI
Price £ R.R.P.	1,765.00	635.00	635.00

Readers

Model No.	SC7	SC7P	SC500
			
General Description	Low Cost Smart Card Reader suitable for use with from Mifare® Smart Cards. Reads CHIP serial number only	Low Cost Smart Card Reader with built in Keypad suitable for use with from Mifare® Smart Cards. Reads CHIP serial number only	Smart Card Reader suitable for use with from Mifare® Smart Cards. Reads CHIP serial number and a sector of the MAD
Price £ R.R.P.	125.00	295.00	215.00

Model No.	SC500P	M-43	BC-16
			
General Description	Smart Card Reader with built in Keypad suitable for use with from Mifare® Smart Cards. Reads CHIP serial number and a sector of the MAD	Keypad only	Magnetic Stripe Card-only Reader. For uneven surfaces use the mounting plate
Price £ R.R.P.	345.00	145.00	166.00

Model No.	BC-43	TG-PROX
		
General Description	Magnetic Stripe Card Reader with built-in keypad. Built-in keypad offers the possibility of combined access control with both a card and a PIN for higher security	Enrolment Reader pre-mounted on a desk stand, requires USB-RIF/2 for connection
Price £ R.R.P.	203.00	99.00

See page 67 for full details on Bewator's Reader Technology

Entro Lite

Cards and Tags

Model No.	IB-968	IB-961	IB-958	IB-958M
				
General Description	Passive encoded clamshell card	Passive encoded keyring tag	Passive encoded ISO laminated card	Passive encoded ISO laminated card with IS7811/2 Magnetic Stripe
Price £ R.R.P.	2.65	3.70	4.55	4.89

Model No.	IB-928	IB-928-Clear	IB-928-Red	IB-928-Green
				
General Description	Active encoded clamshell card	Clear Active encoded clamshell card	Red Active encoded clamshell card	Green Active encoded clamshell card
Price £ R.R.P.	8.99	9.35	9.35	9.35

Model No.	IB-928-Purple	IB-928-Blue	IB-911	IB-970
				
General Description	Purple Active encoded clamshell card	Blue Active encoded clamshell card	Active encoded keyring tag	Active encoded vehicle tag
Price £ R.R.P.	9.35	9.35	11.65	28.65

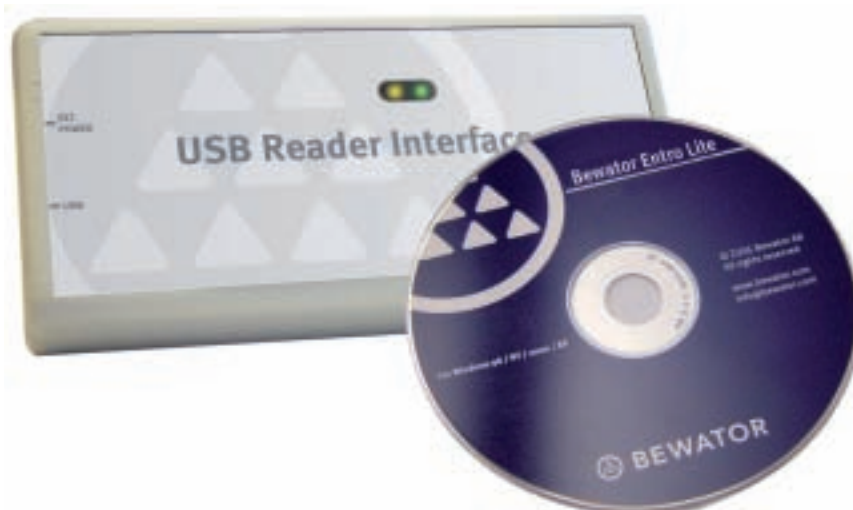
Model No.	IB-1	SC558
		
General Description	Magnetic Stripe Card	Mifare® Smart Card
Price £ R.R.P.	1.05	3.45

See page 75 for full details on Bewator's Card Technology

Networking Interfaces

Model No.

USB-RIF/2



General Description	Entro Lite Software and RS485 to USB Interface required when connecting a network of Entro Lite DC800 Door Controllers (maximum 8) to a PC	
Entro Lite Software Features	Description:	Software for Entro Lite DC800 Door Controllers, allowing up to eight Standalone Door Controllers to be networked together via RS485 and a USB Interface. Fully upgradeable to Entro 5 without any hardware redundancy
	Door Capacity:	8
	Code Capacity:	8
	Card Capacity:	1000
	Time Schedules:	10 + one 24 hours a day
	Time Zones:	2 time interval per day + one interval (in each time schedule) for half days
	Security Levels:	Unlocked, Group code, Card only, Card+PIN, Door locked plus Toggle.
	PC System Requirements:	USB port for connection of the access control system CD drive Printer port (parallel) Windows XP or Windows 2000
	Opening time:	1-99 seconds
	Door Held Warning Time:	1-99 seconds
Price £ R.R.P.	125.00	

Does your access control have this many combinations?



Introducing Bewator Entro 5.3

Bewator's Entro 5.3 access control system delivers a perfect solution for premises and organisations large and small. New features include:

- sophisticated integration into the full Siemens Digital Video Recorder range
- reservation management (including automated billing facility)
- enhanced administration facilities
- automatic card cancellation
- an intuitive user interface,
- excellent security and entry logging functions.



The award winning Bewator Entro is a PC based access control that system is suitable for commercial and industrial premises, institutions such as hospitals, or indeed any establishment requiring an effective Access Security Solution. Simplicity is one of Entro's most important qualities



- PC Based modular access control system
- Can cater for up to 512 doors and 40,000 people
- DVR Integration with Siemens AX, CX and MX DVR ranges
- Simple system configuration
- Improved operating flexibility
- Extensive range of Reading Solutions and card options
- Supplied with Standalone Video Badging software
- Integral Reservation Function

Entro 5

The award-winning Bewator Entro PC based system is suitable for commercial, industrial premises or any establishment requiring an effective access security solution.

The system uses distributed intelligence via SR34i Segment Controllers, which hold all the necessary information for system operation, whilst the PC is only used for programming and monitoring. There are four Segment Controllers available - 4, 8, 16 and 32 - allowing costs to be optimised for different system sizes.

Up to sixteen Segment Controllers can be connected to a bus. Bewator Entro also supports connection via TCP/IP over a LAN or WAN. The latest version of Entro can now integrate with Siemens Sistore DVRs. The DC-12 or DC-22 Door Controllers are connected to the Segment Controllers. The type chosen depends on the functions required for each door in question. The Door Controllers are in turn connected to the Reader at the door.

The system can utilise the complete range of Bewator Readers: from Proximity, Hands-Free, Smart Card to Magnetic Stripe or alternatively Wiegand Readers.

Despite being able to cater for up to 512 doors, 40,000 card holders, 240 time schedules, 480 access groups and 240 zones, Entro 5 is one of the simplest systems to install and using Bewator's Starter Packs and Reader Packs, it is now more cost effective and easier to specify.

Bewator Entro also has an Integral Reservation Function, which allows certain people or groups to reserve access to premises at particular times. This is ideal for conference rooms, squash courts and other leisure facilities. Reservations are made via the Internet or from Bewator's InfoPoint Touch Screen Reservation Terminal next to the location in question.



Cable Requirements for Entro 5

Reader/Interface/Controller	Max Cable Distance	Belden reference number
BC-16	from Reader to Controller	
	50	9536
PR500-AB, SP500-AB, PM500-AB, HD500-2-AB, HF500-Entro, BC-5270, BC-5311	50	9537
	from interface to antenna	
5311 to antenna (HF100, 270)	200	8723
5311 to antenna (HF100, 270)	300	9402
SR34i to SR34i	Controller to Controller	
	1200 (overall)	9502 or CAT5

- New modern designed Segment and Door Controllers enabling improved installation and service
- Entro Lite can easily be upgraded to Entro 5, without any hardware redundancy
- Visible display on the Controllers which indicates status and error codes
- Built-in 2-port switch in the new SR34i Segment Controller
- Increased database - 40,000 cards, 480 access groups, 240 time schedules and 240 time zones
- Integration with Siemens AX, CX and MX DVR ranges providing:
 - Support for up to 16 DVRs and 128 cameras
 - Trigger recording from Entro events
 - Live view of cameras
 - Search and playback of video
- Multiple door views
- Debit card control from Integral Reservation Function
- User definable expiry dates for un-used cards
- Supplied with ENTRO-SVB – Entro Standalone Video Badging software
- Support of dynamic IP addresses with DHCP and DNS
- 100Mbit TCP/IP communication
- Antipassback available via one new DC-12 or DC-22 Door Controller
- Multiple user database, with up to 16 administrators
- Increased event buffer in the SR34i to 10,000 events in off-line position
- Automatic backup of events in the SR34i. It is always possible to retrieve the 10,000 latest events from the system
- Possibility to connect Wiegand Readers (26 & 32 bit)
- Handling of card numbers with up to 16 digits, for higher security
- CAT5 cable can be used on the local bus
- Flash upgrade of Door Controllers direct from PC
- Dedicated Enrolment Reader



Notes:

For Entro 5 we recommend a minimum PC requirement of Pentium Processor 266MHz or higher and 1GB Ram, running either Windows 2000 or XP.

The features listed above are only relevant to Entro version 5 using the new SR34i Segment Controllers. PLEASE NOTE the new SR34i Segment Controllers are not compatible with Entro versions 2 or 3. When expanding these systems you will need to use the SR32 Segment Controllers - please consult our Customer Support Team for pricing and availability

Systems using Entro version 4.1 to 4.5 can be expanded using the new SR34i Segment Controllers, but only after the upgrade software Entro version 4.7 has been installed. Please be aware that none of the new features of Entro version 5 will be available. For further information please consult our Technical Services department.

Entro 5

Starter Packs

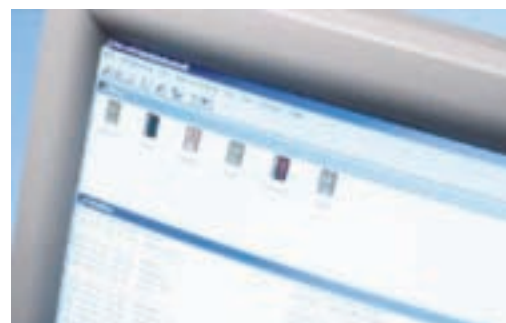
Model No.	ENTSTPK2R	ENTSTPK2R-SP
		
General Description	Two Reader Proximity Starter Pack. Consists of Entro 5 software and manuals, 1 x SR34i-4 Segment Controller, 2 x PR500-AB Proximity Readers and 2 x DC-12 Door Controllers	Two Reader Switch Plate Proximity Starter Pack. Consists of Entro 5 software and manuals, 1 x SR34i-4 Segment Controller, 2 x SP500-AB Switch Plate Readers and 2 x DC-12 Door Controllers
Specifications	See individual product pages for full specifications	
Price £ R.R.P.	795.00	795.00

Model No.	ENTSTPK4R	ENTSTPK4R-SP
		
General Description	Two Reader Proximity Starter Pack. Consists of Entro 5 software and manuals, 1 x SR34i-4 Segment Controller, 4 x PR500-AB Proximity Readers and 4 x DC-12 Door Controllers	Two Reader Switch Plate Proximity Starter Pack. Consists of Entro 5 software and manuals, 1 x SR34i-4 Segment Controller, 4 x SP500-AB Switch Plate Readers and 4 x DC-12 Door Controllers
Specifications	See individual product pages for full specifications	
Price £ R.R.P.	1,246.00	1,246.00

Entro Version 5 Software

Model No.

ENTRO 5



General Description

Entro Version 5 Software a user-friendly Networkable Windows based software for use with Bewator's Entro System hardware. Connections can either be direct via RS232, dial up via modem or over a LAN or WAN via TCP/IP. Standard features include global anti-passback, roll call, door monitoring, lift control option, alarm bypass and control functions, DVR integration with Siemens AX, CX and MX DVR ranges. Supplied with ENTRO-SVB – Entro Standalone Video Badging software

Basic PC Requirements

Pentium Processor 266MHz or higher
1GB RAM
Min. 20 Mb free space on hard disc
CD-ROM drive
Min. VGA monitor
Local Area Network connections (Ethernet 100 Mbit)
Serial port for SR34i/modem
Parallel printer port
Windows 2000 or XP

Basic Network Requirements

Twisted-pair Ethernet 100Mbit
Access to SNTP Server when using TCP/IP connectivity
Permanent Internet connection of SR34i when Internet is used

System Features

16 System administrators in 3 levels plus dedicated Installer Screen
Compatible with Windows 95B/98/2000/XP or Windows NT version 4.0
Supplied on CD complete with documentation

System Capacity

512 doors
40,000 cardholders
240 time schedules
480 access groups
240 zones (alarm, anti-passback, roll call and entrance limitations)
7 half days, 14 holidays and 4 holiday periods in each time schedule
Up to 10,000 sub-systems can be controlled
Supplied with ENTRO-SVB – Entro Standalone Video Badging software

Integral Reservation Function

An Integral Reservation Function allowing certain people or groups to reserve access to premises at particular times. Ideal for conference rooms, squash courts, and other leisure facilities. Includes Debit Card functionality. Reservations are made via the Internet or from the InfoPoint IP811 Touch Screen Terminal next to the location in question. Requires use of CF8 SR34i Memory Card

Price £ R.R.P.

53.00

Entro 5

Entro Video Badging Packages

Model No.	ENTRO-VB-PRO1		
			
General Description	Entro Video Badging Professional Package 1 , a Video Badging System for Entro 5. System includes Entro 5 software, ENTRO-SBC Standalone Video Badging software, Magicard Tempo Dye Sublimation printer, Temp Colour Ribbon (250 images) and USB Camera (not software controlled). Produces Photo ID on ISO cards		
Price £ R.R.P.	1,575.00		
Model No.	ENTRO-VB-PRO2		
			
General Description	Entro Video Badging Professional Package 2 , a Video Badging System for Entro 5. System includes Entro 5 software, ENTRO-SBC Standalone Video Badging software, Magicard Rio 2 Dye Sublimation printer, Rio 2 Colour Ribbon (350 images) and USB Camera (not software controlled). Produces Photo ID on ISO cards		
Price £ R.R.P.	3,225.00		
Model No.	ENTRO-VB-PRO2		
			
General Description	Entro Video Badging Professional Package 3 , a Video Badging System for Entro 5. System includes Entro 5 software, ENTRO-SBC Standalone Video Badging software, Magicard Rio 2 Dye Sublimation printer, Rio 2 Colour Ribbon (350 images), software controlled Camera, capture device, tripod and cables. Produces Photo ID on ISO cards		
Price £ R.R.P.	4,875.00		

Entro Version 4.7 Upgrade Software

Model No.

ENTRO 4.7



General Description

Entro Version 4.7 Upgrade Software enables older versions of Entro, 4.1 to 4.5 to use the new range of SR34i Segment Controllers. Does not provide any of the new features in version 5

System Features

Upgrade software to enable systems running versions 4.1 to 4.5 and using old SR32i Segment Controllers to use the new range of SR34i Segment Controllers. Requires existing software to install and will not run on its own. Removes the need to use old SR32i Segment Controllers when upgrading systems using versions 4.1 to 4.5

Upgrade Summary

Version 5 and above use SR34i Segment Controllers only, old SR32i Segment controllers will not work
Version 4.7 using existing SR34i Segment Controllers expand with new SR34i Segment Controllers
Version 4.1 – 4.5 using SR32i Segment Controllers cannot be expanded by use new SR34i Segment Controllers. To expand install version 4.7 upgrade software
See illustration below

Price £ R.R.P.

F.O.C.

v 5.0
v 5.1



v 4.7



v 4.1
v 4.2
v 4.5



Entro 5

Segment Controllers

Model No.

SR34i-4 / 8/ 16 / 32



General Description	Entro Segment Controller. There are four variants – SR34i-4, SR34i-8, SR34i-16 and SR34i-32. Requires Entro software version 5 PLEASE NOTE .For extensions to installations using of Entro Version 4.1 to 4.5 please use the upgrade software Entro Version 4.7. Also the old SR32/SR32i Segment Controllers will only work on previous versions of Entro and are not compatible with Entro version 5. It is not possible not possible to mix SR32 and SR34i Segment Controllers on the same site/system. For older systems please consult our Customer Support team for pricing and availability	
Dimensions H x W x D (mm)	182 x 248 x 66	
Temperature	0 to 50 °C	
Environmental	Internal use only	
Electrical	8 - 40Vdc 8 - 30 Vac, 100mA	
Housing	Wall mounted composite housing	
Door Capacity	4, 8, 16, 32 – Dependant on which SR34i is used i.e. SR34i-4, SR34i-8, SR34i-16, SR34i-32	
Interfaces	Built-in 2-port switch with two RJ45 10/100 Mbit connections for Ethernet. RS232 to PC, Printer or Modem. Max. 25 metres RS485 global - to other SR34i controllers RS485 local - to door controllers. Expansion slot for memory card CF8 (compact flash) Direct communication with Siemens AX, CX, MX DVR ranges	
Cable Length	Maximum 1000 metres (RS485)	
Price £ R.R.P.	SR34i-4 SR34i-8 SR34i-16 SR34i-32	525.00 635.00 739.00 1,055.00

Reader Packs

Model No.	ENTPRXPK	ENTSPPK
		
General Description	Proximity Reader Pack, mullion mount. Consists of 1 x PR500-AB Proximity Reader and 1 x DC-12 Door Controller	Switch Plate Proximity Reader Pack. Consists of 1 x SP500-AB Switch Plate Proximity Reader and 1 x DC-12 Door Controller
Specifications	See individual product pages for full specifications	
Price £ R.R.P.	219.00	219.00

Model No.	ENTPMPK	ENTHDPK
		
General Description	Panel Mount Proximity Reader Pack. Consists of 1 x PM500-AB Panel Mount Proximity Reader and 1 x DC-12 Door Controller	Heavy Duty Proximity Reader Pack. Consists of 1 x HD500-2-AB Heavy Duty Proximity Reader and 1 x DC-12 Door Controller
Specifications	See individual product pages for full specifications	
Price £ R.R.P.	219.00	235.00

Model No.	ENTHFPK	ENTMAGPK
		
General Description	Hands-Free Reader Pack. Consists of 1 x HF500-Entro Hands-Free Reader (internal use only) and 1 x DC-12 Door Controller	Magnetic Stripe Reader Pack. Consists of 1 x BC-16 Magnetic Stripe Card-only Reader and 1 x DC-12 Door Controller
Specifications	See individual product pages for full specifications	
Price £ R.R.P.	345.00	305.00

For full Bewator's complete range of Readers see page 67

Entro 5

Door Controllers and Interfaces

Model No.	DC-12	DC-22
		
General Description	Door Controller for Entro. Controls one door. Connects on the local RS485 bus to SR34i Segment Controller. Suitable for all Bewator Readers and third party Wiegand Readers (consult Customer Support for interfaces supported). Antipassback available by connecting two Readers. Built in display for status and error information.	Advanced Door Controller for Entro. Controls one door. Connects on the local RS485 bus to SR34i Segment Controller. Suitable for all Bewator Readers and third party Wiegand Readers (consult Customer Support for interfaces supported). Antipassback available by connecting two Readers. Advanced features contain extra inputs and outputs. Built in display for status and error information.
Dimensions H x W x D (mm)	182 x 250 x 54	182 x 248 x 55
Temperature	-35 to 50 °C	-35 to 50 °C
Environmental	Internal only	Internal only
Electrical	8 to 40Vdc or 8 - 30 Vac, 60mA	8 to 40Vdc or 8 - 30 Vac, 60mA
Housing	Wall mounted composite housing	Wall mounted composite housing
Interfaces	RS485 connection to SR34i Segment Controller. Connection of readers via BC-link, Clock & Data or Wiegand	RS485 connection to SR34i Segment Controller. Connection of readers via BC-link, Clock & Data or Wiegand
Inputs	Exit button request with delay. Door contact for indicating closed/open door. Tamper switch for internal control	Exit button request with delay. Door contact for indicating closed/open door. Lock status sensor for indicating locked/unlocked door. Alarm bypass activating from a button or a timer. Alarm Status Feedback (ASF). Indication of alarm status (red LED). Tamper
Outputs	Voltage free relay contact, max 2A, 30V	Voltage free change over contact (lock relay), max 2A, 30V. Voltage free closing contact (motorlock relay), max 2A, 30V. Voltage free change over contact (alarm bypass relay), max 2A, 30V. Voltage free closing contact (door held warning relay), max 2A, 30V. Voltage free closing contact (pre-warning relay), max 2A, 30V. Voltage free closing contact (alert relay), max 2A, 30V
Price £ R.R.P.	145.00	203.00

Door Controllers and Interfaces

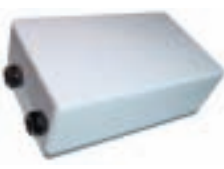
Model No.	DC-01	IOR6	IP811
			
General Description	Door Interface for one door (without reader). Used for general control like timing functions or door monitoring	Input/Output Unit. Four inputs and six outputs. Intended for use in lift control applications - or machine control/door control in reservation applications - or just as pure timer functions. A maximum number of 32 units of IOR6 can be used for lift control - otherwise only restricted by addressing technique in Entro (maximum 512)	Touch Screen Reservation Terminal for Entro's Integrated Reservation Function. TCP/IP based, colour screen and integral Proximity Reader. Used to send and receive information from/to the SR34i Segment Controller which acts as a web server. Supplied with a wall mount kit and a power supply cable (with free end and a RJ45 type connector).
Dimensions H x W x D (mm)	80 x 120 x 40	200 x 140 x 60	154 x 350 x 52
Temperature	-35 to 50 °C	-35 to 50 °C	5 to 40 °C
Environmental	Internal only	Internal only	Internal only
Electrical	8 to 40Vdc or 8-30Vac, 100mA	8 to 40Vdc or 8-30Vac 50mA in standby, 200mA with all relays activated,	12 to 35 Vac/dc, 350mA
Housing	Wall mounted white plastic box	Wall mounted composite housing	Aluminium, composite with a strong polycarbonate film covering for the TFT-screen
Interfaces	RS485 connection to SR34i Segment Controller	RS485 connection to SR34i Segment Controller	Standard TCP/IP LAN connection, 10BaseT connector. Type RJ45
Inputs	Exit button request with delay. Door contact for indicating closed/open door.	Four remote control inputs.	N/A
Outputs	Voltage free relay contact, max 2A, 30V	Two voltage free change over relay contacts. max 0.9A. 60V (2 A. 30V). Four voltage free closing relay contacts, max 0.9A 60V (2 A. 30V). Six extra outputs which works in parallel with above	N/A
Price £ R.R.P.	112.00	250.00	1,595.00

Entro 5

Readers

Model No.	PR500-AB	SP500-AB	HD500-2-AB	PM500-AB
				
General Description	Proximity Reader, mullion mount. Designed to suit door architraves and compliment all working environments	Switch Plate Proximity Reader. Designed to fit most single gang back-boxes	Heavy Duty Proximity Reader. Designed for both modern office environments and vulnerable locations	Panel Mount Proximity Reader. Designed to fit most remote 3rd party panels, such as Door Entry Phones
Price £ R.R.P.	160.00	160.00	175.00	160.00

Model No.	BC-43Prox	HF500-Entro	BC-5511	HFG500-AB
				
General Description	Proximity Reader with built-in keypad Offers the possibility of combined access control with both a card and a PIN	Hands-Free Reader. Offering unrivalled reading range using Cotag® Active Technology, internal use only	Hands-Free Reader Pack. Offering unrivalled reading range using Cotag® Active Technology	Hands-Free 'Glass' Reader. 300mm x 300mm, suitable for screening with corporate logo
Price £ R.R.P.	287.00	349.00	405.00	1,535.00

Model No.	HFG500E-AB	BC-5270	BC-5516
			
General Description	Hands-Free 'Glass' Reader. 300mm x 1000mm, suitable for screening with corporate logo	Integrated Loop Reader Pack. Features Cotag® Technology. Provides, by a buried loop in the ground or round a door	Loop Reader Pack. Features Cotag® Technology. Provides, by a buried loop in the ground or round a door, suitable for AVI
Price £ R.R.P.	1,765.00	635.00	635.00

Readers

Model No.	SC7	SC7P	SC500
			
General Description	Low Cost Smart Card Reader suitable for use with from Mifare® Smart Cards. Reads CHIP serial number only	Low Cost Smart Card Reader with built in Keypad suitable for use with from Mifare® Smart Cards. Reads CHIP serial number only	Smart Card Reader suitable for use with from Mifare® Smart Cards. Reads CHIP serial number and a sector of the MAD
Price £ R.R.P.	125.00	295.00	215.00

Model No.	SC500P	M-43	BC-16
			
General Description	Smart Card Reader with built in Keypad suitable for use with from Mifare® Smart Cards. Reads CHIP serial number and a sector of the MAD	Keypad only	Magnetic Stripe Card-only Reader. For uneven surfaces use the mounting plate
Price £ R.R.P.	345.00	145.00	166.00

Model No.	BC-43
	
General Description	Magnetic Stripe Card Reader with built-in keypad. Built-in keypad offers the possibility of combined access control with both a card and a PIN for higher security
Price £ R.R.P.	203.00

See page 67 for full details on Bewator's Reader Technology

Entro 5

Cards and Tags

Model No.	IB-968	IB-961	IB-958	IB-958M
				
General Description	Passive encoded clamshell card	Passive encoded keyring tag	Passive encoded ISO laminated card	Passive encoded ISO laminated card with ISO7811/2 Magnetic Stripe
Price £ R.R.P.	2.65	3.70	4.55	4.89
Model No.	IB-928	IB-928-Clear	IB-928-Red	IB-928-Green
				
General Description	Active encoded clamshell card	Clear Active encoded clamshell card	Red Active encoded clamshell card	Green Active encoded clamshell card
Price £ R.R.P.	8.99	9.35	9.35	9.35
Model No.	IB-928-Purple	IB-928-Blue	IB-911	IB-970
				
General Description	Purple Active encoded clamshell card	Blue Active encoded clamshell card	Active encoded keyring tag	Active encoded vehicle tag
Price £ R.R.P.	9.35	9.35	11.65	28.65
Model No.	IB-1	SC558		
				
General Description	Magnetic Stripe Card	Mifare® Smart Card		
Price £ R.R.P.	1.05	3.45		

See page 75 for full details on Bewator's Card Technology

Tel: 0871 386 0810

E-mail: sales.support@bewator.co.uk

Web: www.bewator.co.uk

Accessories

Model No.	USB-ENROL	9502	KOMB12
			
General Description	Enrolment Reader for Entro 5. Complete with a PR500-AB Reader pre-mounted on desk stand and USB Interface	Belden 9502 Cable 300m reel	Specialist Cable for Entro, 2 x twisted pairs, a larger diameter pair for power and a smaller diameter pair for data, thus simplifying system cabling, 100m or 500 reels
Price £ R.R.P.	270.00	327.00	KOMB12-HF100 135.00 KOMB12-HF500 675.00

Model No.	TamperKit	IF1	BB7
			
General Description	Tamper Kit for wall fitment of DC-22 Door Controllers	RS232 Cable Connection Kit for SR34i connection to PC. Includes 20m of cable and connection box	Flush Mounting Kit for IP811 Touch Screen Reservation Terminal
Price £ R.R.P.	16.00	91.00	102.00

Model No.	CF8	MODEM-DU-HST	MODEM-DU-REM
			
General Description	SR34i Memory Card for Internet Reservation Systems	Modem for PC connection (host)	Modem for SR34i Segment Controller connection (remote)
Price £ R.R.P.	105.00	319.00	745.00



Bewator Granta

The Security Management System

- 1 - 4,096 readers/doorsUp to 75,000 card holders
- SQL Database
- Full reporting package
- Video badging
- Alarm graphics
- Integrate to other systems
- ... and much more.

Contact your local Account Manager for more details.



BEWATOR

A Siemens Business

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www.bewator.co.uk • E-mail: sales@bewator.co.uk

Granta Security Management System

Bewator Granta 5 is a modular security management system scalable from less than 4 up to 4096 doors or access points built around a SQL software package. The system incorporates integrated support for Bewator's Hands-Free Cotag® Technology, providing the most cost-effective way of implementing a Hands-Free system, with all the associated benefits that this brings to the users. However, it is also an open system that can use the range of Bewator Readers, from Proximity to Smart Card or other 3rd party Readers. Comprehensive 'Security Management System' features are provided by the 'Granta for Windows' software, whilst the system is simple, flexible and powerful, providing a cost effective, scalable and upgradeable solution guaranteed to protect the user's investment in security solutions

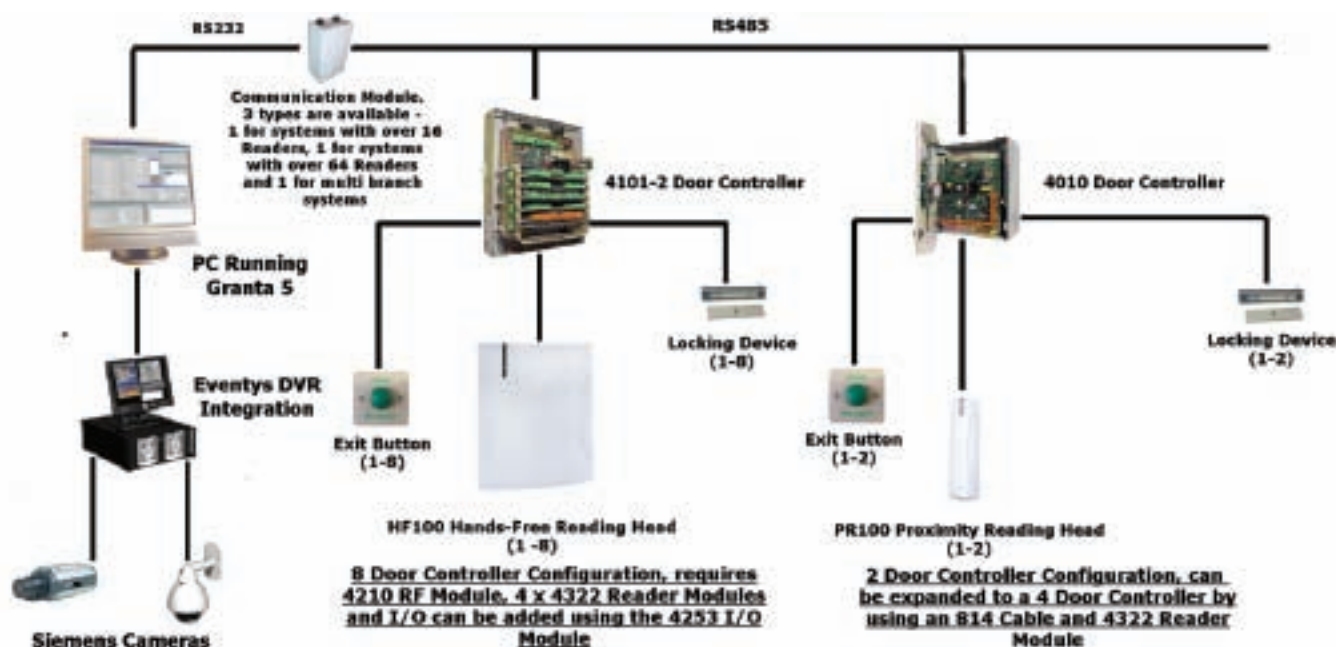


Granta Security Management System

Granta 5 is a high-end access control system, based on Microsoft SQL databases. The system architecture is highly flexible, very powerful and extremely secure, providing the ability to deliver "bespoke" system functions at "off the peg prices".

The structure of the Granta System is modular at all levels, allowing configurations for applications of all sizes and degrees of complexity:

- Can cater for up to 4,096 access points, 75,000 people, 1023 access levels and 64 time zones
- All of the key elements of your security management are combined in Granta; access control, lift and car park security, DVR integration, CCTV and intruder alarms, all run from a single controlling PC.
- Network Connectivity - Granta allows multiple PC workstations to be connected via your network allowing for distributed monitoring and control of the system, including multi-sites
- Four core languages – English, French, German and Spanish
- An almost unlimited number of controllers can be connected via a number of communication types
- Software and hardware can support multiple levels of local systems and remote sites



The whole system is managed by the Granta 5 core software package. The PC is used to set up and monitor the system, but does not normally take part in the access control decisions. The Granta 5 software contains a number of elements providing extensive functionality and flexibility of installation. Alarm Graphics, Video Badging, Multiple Hardware Systems, X-Link, Image Monitor, Visitor Manager, CLIC I/O programming, 48Hour (basic T&A), DVR Viewer, CCTV Manager and Database Partitioning Basic are all included in the software package.

This modularity of controllers, system and software provides maximum flexibility for cost-optimised installations in a wide variety of applications and system size:

- Robust, adaptable system structures for larger systems
- Multiple operator stations over LANs
- Remote sites via leased line, dial-up, GSM or TCP/IP

Granta Version 5 Core Software

Granta 5 for Windows follows the modular concept of the Granta hardware and is structured such that applications are installed depending on the functions required. The core software provides comprehensive system management functionality; software options can be added to meet requirements as below.

Core Software features

- Setup Wizard for simple installation and block card loading
- Fully translated: software & manuals (English, French, German and Spanish)
- Windows 2000 or XP qualified
- Networkable
- Multiple Workstations
- Up to 1024 Access levels
- Up to 4 personal Access Points per cardholder
- European Working time directive report facility
- DVR Integration
- Counter Monitor

Optional Software Features

Alarm Graphics

- Graphical representation of sites
- Alarm acknowledgement
- Access point and I/O control

Image Monitor

- Allows comparison of stored image with that of person presenting a card
- Access point control built in
- One or more access points can be monitored

Video Badging

- Integrated with card database
- Simple card layout and design
- PC control of camera zoom

Multiple Hardware Systems

- Remote sites or locally separated hardware systems
- Virtually unlimited number of separate systems

Visitor Manager

- Pre-booking and audit of visitors
- Integration with Access System
- Short period validation of cards

X-Link

- Logical event processing and message services to external devices
- Allows close integration with 3rd party applications
- Serial, Email, System and DDE

CCTV Manager

- Integrated CCTV control functions
- Graphics plans include cameras
- Alarms linked to camera views
- Automatic image capture on alarm

Database Partitioning Basic

- Facilitates “multi tenant” applications with the following features:
- Landlords can administer entire system
- Individual companies can only administer their own cardholders and system

PC Requirements

The choice of a PC to run a Granta 5 system is extremely important. This is a high level SQL based system and may require a dedicated server type machine to run correctly. When specifying a PC to run as a Granta 5 client/workstation you must consider how it will be used by the end user. For example, to simply monitor transactions and administer the cardholder database from time to time on a relatively small system requires a different specification PC to a system printing Photo ID badges and processing alarms/transactions from a large door/card holder population.

Performance/Server*	Recommended/Client****	Minimum/Client****
2.8GHz Xeon	Pentium IV 2.2GHz	Pentium IV 1.2 GHz
1 GB RAM	512 MB RAM	128 MB RAM
80 GB RAID hard drive	6.4 GB hard drive	6.4 GB hard drive
Windows XP, 2000 or 2003 server****	Windows 2000 or XP***	Windows XP or 2000****
XVGA graphics card** with 128 MB RAM	SVGA graphics card** with 128 MB RAM - Not shared	SVGA graphics card** with 16 MB RAM - Not shared
10/100 802.3 Ethernet Port	10/100 802.3 Ethernet Port	10/100 802.3 Ethernet Port
2 serial ports, 1 parallel port, 32 speed DVD reader/writer	32 speed DVD Reader, 2 serial ports	32 speed DVD Reader, 2 serial ports

* As mentioned above the minimum specification machine must only be used for small simple systems

** Graphics card must run “Direct X” 2 compliant drivers

*** Windows ME is not qualified for use as an operating system with Granta

**** Microsoft Client PC is for remote client operation using standard Microsoft Client SW

***** Workstation PC is for use on a local area network with Granta SW modules locally loaded on the PC

Granta Security Management System

Granta Version 5 Core Software

Model No.

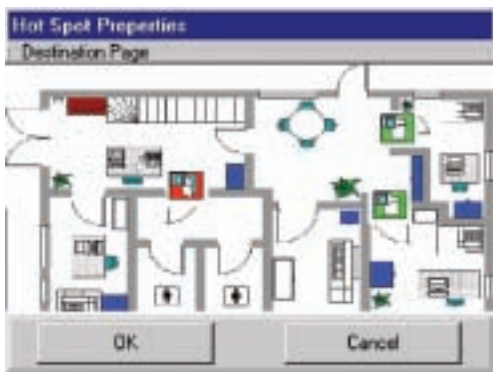
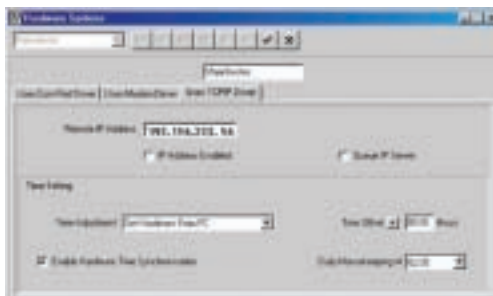
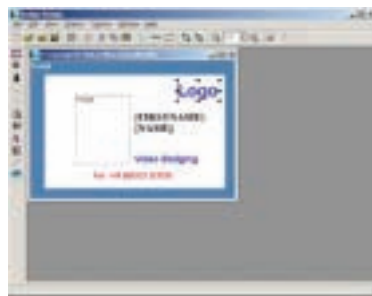
4880



General Description	Granta Version 5 Core Software is based on Microsoft SQL databases and provides a comprehensive system management functionality, controlling Operator Functions such as cardholders, monitor and control, access configuration, reports; Commissioning / Admin Functions such as system administration, hardware systems, configurable logical input / output control, wizards. Permanently Resident Applications such as system manager, comms driver, modem driver, time synchroniser, local printing, archive, Eventys DVR Integration, CLIC I/O programming, 48Hour (basic T&A). Available as separate software options: Alarm Graphics, Image Monitor, Multiple Hardware Systems, Video Badging, X-Link, CCTV Manager, Visitor Manager, DB Partitioning and QUIP Four core languages as standard – English, French, German and Spanish. Supplied on a DVR Rom disc
System Specification	75,000 Cardholders, 4,096 Readers/Doors, 1,023 Access Levels, 64 Time Frames, 10 Time Zones per time frame, 4 personal access points per cardholders, Holiday calendar for 2 years, Daylight saving, 4 to 6 digit PINS, Duress PIN function, Up to 10 digit card numbers, Local Anti-pass-back, Global Anti-pass-back
System Features	Import/Export data facility, CLIC - Configurable logical Input/Output Control, User defined data fields, Enrolment reader, Integrated smart card programmer functionality in cardholder screen, Full translation files for customer translation
Reports & Monitoring	History log with automatic deletion of old data, Operator session log, Audit trail, History reports, Archived data reports, Time recording, European working time directive reports, Selective card monitoring, Selective access point monitor
Alarms	Multiple alarm conditions, Alarm Priorities, Alarm acknowledge options, Input monitoring
Price £ R.R.P.	499.00

Granta Security Management System

Granta Version 5 Software Options

Model No.	4881	4883
		
General Description	Alarm Graphics for Granta 5 – Graphical control & representation of alarm events - provides you with an audible warning and graphical site plans that you can easily design yourself in order to identify and process system alarm events, giving a simple visual representation of the system to the user. Should an alarm event occur the operator can immediately identify where it is and take action. Accordingly system control functions are also available, allowing doors to be manually overridden, security lights turned on etc. This will also provide access to the CCTV Manager software option, if installed	Image Monitor for Granta 5 – Comparison of stored images with cardholder - allows stored images of enrolled cardholders to be displayed when the card is read at a specific access point. This can be verified by an operator visually, directly (face to face) or via a local CCTV camera. The operator can then decide whether or not to challenge the cardholder
Price £ R.R.P.	499.00	499.00
Model No.	4884	4885L
		
General Description	Multiple Hardware Systems for Granta 5 - Required when multiple 'groups' of controllers are used e.g. remote sites. Is also required when any system uses the 4237 TCP/IP Module	Video Badging License for Granta 5 – Software/licence agreement for use where images are imported as existing files or where a connection to a TWAIN compatible source is preferred e.g. digital camera or scanner. Integrated photo ID badge production - provides processing of electronically stored images, either from an integrated camera or stored files. The badge design software can combine these images with company logos, fixed text and database fields to generate the required picture and variable text. These may then be added to ISO standard cards via dye sublimation printers or adhesive labels
Price £ R.R.P.	499.00	499.00

Granta Security Management System

Granta Version 5 Software Options

Model No.

4885-ProPrint



General Description

Video Badging ProPrint Package for Granta 5 Plus Magicard Rio 2 Printer – Integrated photo ID badge production - provides processing of electronically stored images, either from an integrated camera or stored files. The badge design software can combine these images with company logos, fixed text and database fields to generate the required picture and variable text. These may then be added to ISO standard cards via dye sublimation printers or adhesive labels.

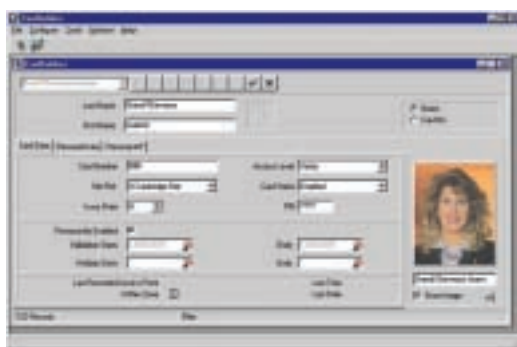
4885-ProPrint package system comprising software controlled camera, Magicard Rio 2 single sided printer, full colour ribbon for 350 images, frame capture device, software/licence agreement, tripod and cables. May be integrated with Granta on a common database. Includes 4880 core software supplied on a DVD Rom disc

Price £ R.R.P.

5,375.00

Model No.

4885-Pro



General Description

Video Badging Pro Package for Granta 5 – Integrated photo ID badge production - provides processing of electronically stored images, either from an integrated camera or stored files. The badge design software can combine these images with company logos, fixed text and database fields to generate the required picture and variable text. These may then be added to ISO standard cards via dye sublimation printers or adhesive labels.

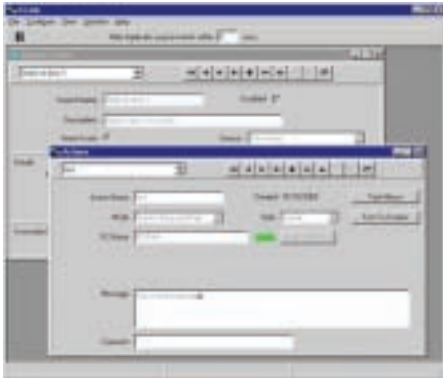
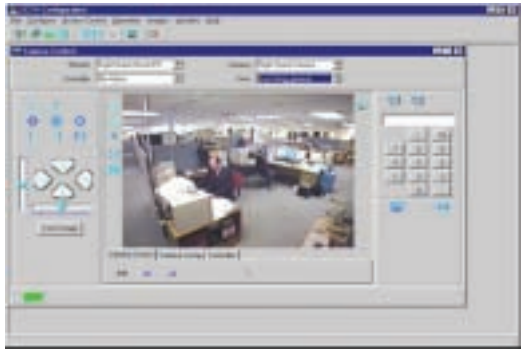
4885-Pro package system comprising software controlled camera, frame capture device, software/licence agreement, tripod and cables. May be integrated with Granta on a common database. Includes 4880 core software supplied on a DVD Rom disc

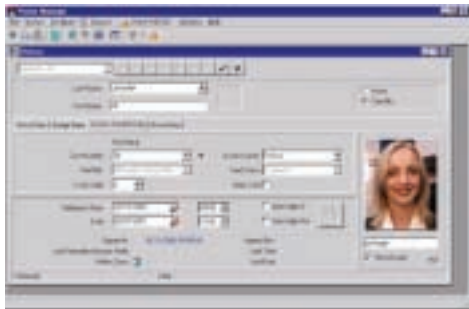
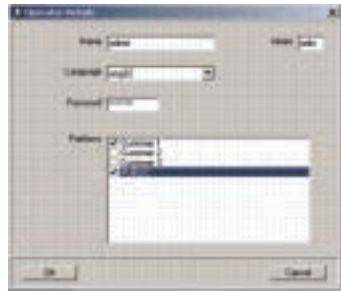
Price £ R.R.P.

2,120.00

Granta Security Management System

Granta Version 5 Software Options

Model No.	4886	4887
		
General Description	X-Link for Granta 5 – Intelligent message processing - an event-passing tool for integrating 3rd party systems. This can transfer events from the security system via various communications media (e.g. email, SMS, paging etc) to other applications in real time	CCTV Manager for Granta 5 - Integration with CCTV systems – allows CCTV systems control directly from within Granta via a virtual keyboard. As Granta monitors events on the access control system, commands via RS232 can be directly sent to the CCTV system without operator intervention; useful for alarm events
Price £ R.R.P.	499.00	499.00

Model No.	4888	4889
		
General Description	Visitor Manager for Granta 5 – Access management & reporting of visitor activity - allows visitors to be logged into the system in advance and badges printed before arrival. Access levels within the system can be restricted as required and validated to hourly intervals. A monitor screen shows who is due to arrive, who is on site, the name of their host. This option also delivers a comprehensive range of management reports	DB Partitioning Basic for Granta 5 - Facilitates “multi tenant” applications with the following features: –Landlord can administer entire system –Individual companies can administer only their cardholders –Individual companies can administer only their access points and common access points –Individual companies can run reports on only their data
Price £ R.R.P.	499.00	499.00

Granta Security Management System

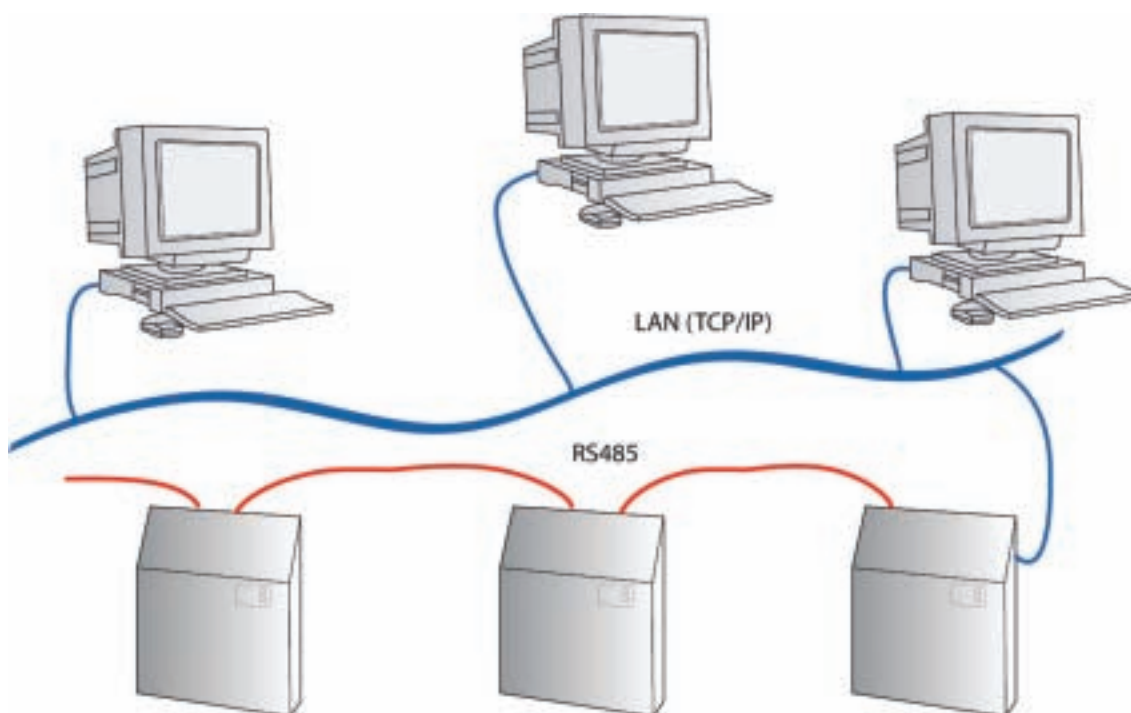
Controllers

Modular Controllers are the core hardware element of the system. They embody the fundamental design concepts of simplicity, flexibility and power in the following ways:

- A family of modules is available to fit specific application needs
- Distributed intelligence provides system speed and integrity
- Powerful I/O linking capability (CLIC) allows system to meet complex application needs

The Granta controller family consists of the 4101 Modular Controller and the 4010 Series. The 4101 Controller has slots for six modules which allows Reader, Input-Output and Communications modules to be installed as required.

Configuration Example over a LAN



Larger systems are built simply by adding controllers linked together using robust RS485 communications. Simple two controller (Master/Slave) systems do not require a Communications Module and can be linked together directly with the Master controller connected to the PC using RS232. Where three or more controllers are required a 4230 Communications Module is used to control the RS485 communications between controllers and the flow of messages to and from the PC. For further details refer to the Granta System Description document.

Controllers

Sample System Configurations

	Number of Readers								
Model/Description	4	8	12	16	24	32	64	128	256
4880 Granta 5 Software	1	1	1	1	1	1	1	1	1
4101 Modular Controller	1	1	2	2	3	4	8	16	32
4210 RF Module	1	1	2	2	3	4	8	16	32
4230 Communications Module	-	-	-	-	1	1	1	-	-
4235 Communications Module	-	-	-	-	-	-	-	1	1
4322 Dual Cotag Reader Module	2	4	6	8	12	16	32	64	128
HF100 Reading Head	4	8	12	16	24	32	64	128	256
4910 Power Supply	1	1	2	2	3	4	5	16	32

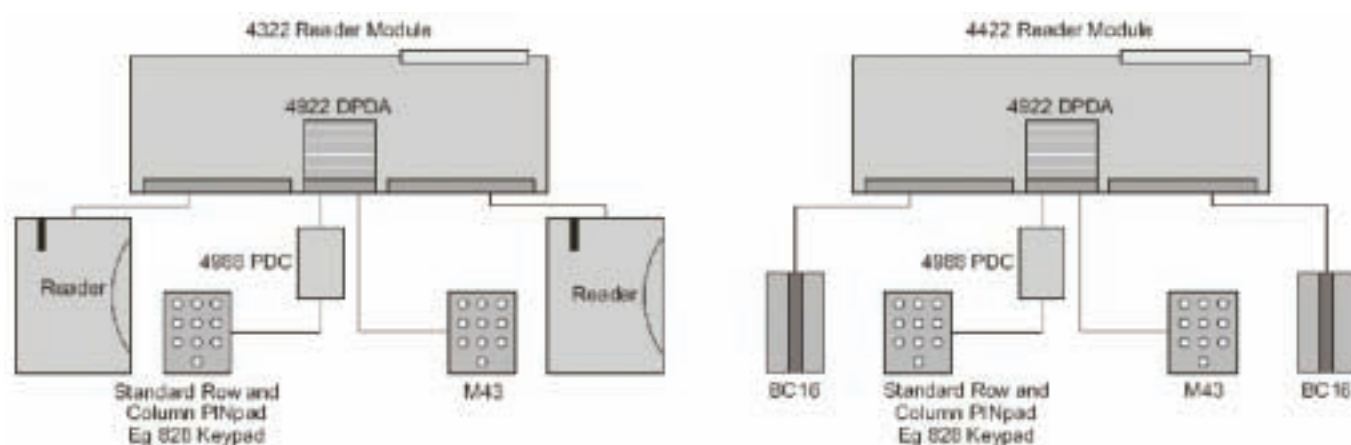
These configuration examples are based on systems using HF100 Reading Heads, these could easily be substituted for PR100 Reading Heads without any other changes. If the customer wishes to install loop systems using the 270 Loop Coupler these can be mixed with conventional Reading Heads. For technical reasons however the number of access points per controller should be limited to a maximum of 4 when loops are specified.

Using PINpads with Granta

There are several ways in which PINpads may be integrated into a Granta system and the method chosen will depend on the type of application.

Firstly, an M43 keypad may be connected directly to either a 4322 or 4422 Reader Module equipped with a 4922 DPDA. This utilises a proprietary serial communications bus (BCLINK) to provide PIN entry and LED control. Alternatively a standard row and column type keypad may be used by interfacing to a 4988 PDC which converts row and column data to proprietary BCLINK which in turn is used to interface to the 4922 DPDA. Finally a standard Wiegand Reader (Proximity or Swipe) with Integrated PINpad may be interfaced directly to a 4422 reader module providing a cost effective integrated solution.

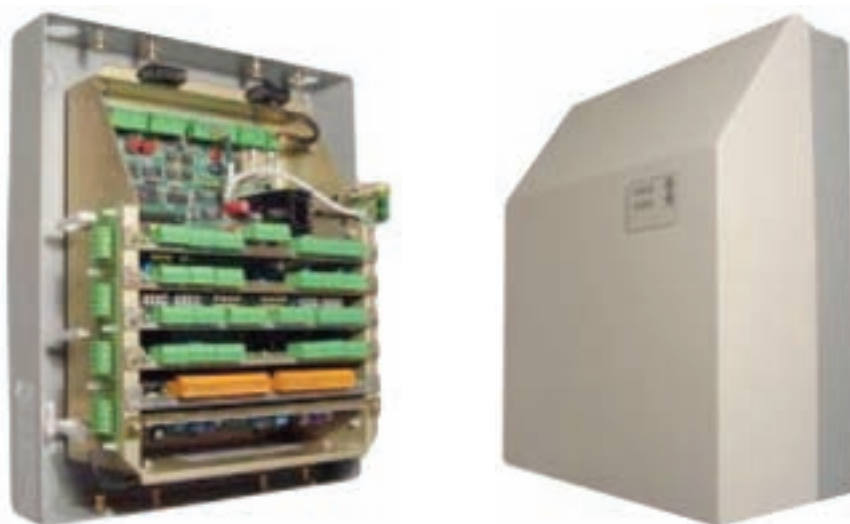
Configuration Example



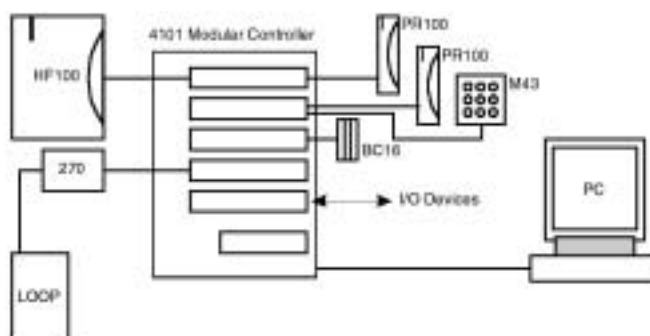
Configuration	Reader Module	4922	4988	Benefits
PR/HF100 + M43	4322	Yes	No	RF with separate vandal resistant PINpad
PR/HF100 + Row & column PINpad	4322	Yes	Yes	RF with any third party PINpad
BC-16 Card Reader + M43	4422	Yes	No	Swipe with separate vandal resistant PINpad
BC-16 Card Reader + Row & Column PINpad	4422	Yes	Yes	Swipe with any third party PINpad
Wiegand Card & PIN Reader	4422	No	No	Third party Proximity and PINpad solution

Granta Security Management System

Controllers

Model No.
4101-2


General Description	Modular Controller for up to eight Reading Heads or Reading Heads & PIN. Five general-purpose plug-in slots, up to four of which may contain reader modules. Dedicated slots for 4210 and 4105 modules
Dimensions H x W x D (mm)	350 x 300 x 143
Temperature	-10 to 40 °C
Environmental	Internal use only
Electrical	1 Amp
Reading Head Capacity	8 Reading Heads using 4322 Dual Cotag® Reader Modules or 8 Third Party Readers (Wiegand or Clock/Data) using 4422 Dual Reading Modules
Card Capacity	13,000, expandable to 75,000 using 4105-2 Memory Expansion Module
RS232 Interface	RS232 for PC connection – max 25 metres
RS232 Interface	RS485 for Controller connection – max 1000 metres
Memory Backup	5 years
Tamper Protection	Tamper switch
Outputs	Relay connections for door releases
Price £ R.R.P.	1,115.00



Granta Security Management System

Controllers

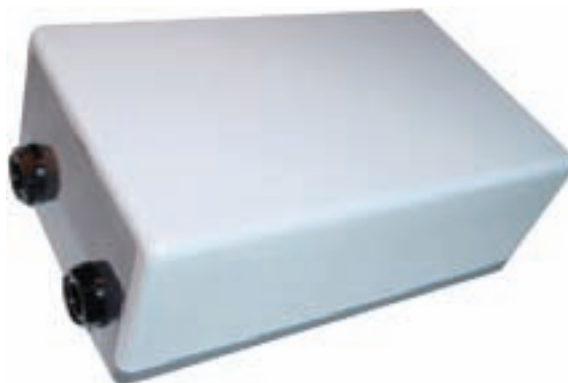
Model No.	4010-CNPi	4010-SNPi
		
General Description	Controller for two Cotag® Technology Reading Heads and separate 4237 TCP/IP Module , includes RF circuitry and 3 amp PSU. Can be expanded to support four Reading Heads by installing a 4322 Dual Cotag® Reader Module and an 814 Reader Module Cable Assembly. May be used on line to any Granta system, as a remote site controller or as a slave controller within a small Primo system. Supplied with separate 4237 TCP/IP Module (requires 4884 Multiple Hardware License)	Controller for two 3rd party Readers (Wiegand/Clock & Data) and separate 4237 TCP/IP Module , includes 3 amp PSU. Can be expanded to support four Readers by installing a 4422 Dual Reader Module and an 814 Reader Module Cable Assembly. May be used on line to any Granta system, as a remote site controller or as a slave controller within a small Primo system. Supplied with separate 4237 TCP/IP Module (requires 4884 Multiple Hardware License)
Dimensions H x W x D (mm)	280 x 260 x 140	280 x 260 x 140
Temperature	-10 to 40°C	-10 to 40°C
Environmental	Internal only	Internal only
Electrical	Integral battery backed 3Amp, 85 to 264Vac PSU, battery not included. 1Amp	Integral battery backed 3Amp, 85 to 264Vac PSU, battery not included. 1Amp
Reading Head Capacity	2, expandable to 4 using 4322 Dual Cotag® Reader Module and 814 Reader Module Cable Assembly	2, expandable to 4 using 4422 Dual Reader Module and 814 Reader Module Cable Assembly
Card Capacity	4010-CNP -2,5000, expandable to 13,000 using 4105 Memory Expansion Module 4101 – 13,000, expandable to 75,000 using 4105-2 Memory Expansion Module	4010-CNP -2,5000, expandable to 13,000 using 4105 Memory Expansion Module 4101 – 13,000, expandable to 75,000 using 4105-2 Memory Expansion Module
RS232 Interface	RS232 for PC connection – max 25 metres	RS232 for PC connection – max 25 metres
RS485 Interface	RS485 for Controller connection – max 1000 metres	RS485 for Controller connection – max 1000 metres
Memory Backup	5 years	5 years
Tamper Protection	Tamper switch	Tamper switch
Outputs	Relay connections for door releases	Relay connections for door releases
Price £ R.R.P.	1,195.00	1,195.00

Granta Security Management System

Integrated Multi-Function Door Control

Model No.

5470



General Description

Integrated Multi-Function Loop Reader. Consisting of a 270 Loop Coupler and a 5411 Multi-Function Reader Interface in a single housing. For use in Healthcare and Asset Tagging Applications.

Infant Monitoring: A tag can be placed onto a baby to prevent it being removed from its secure area by anyone else, but parents or authorised nurse. The unit will alarm if any of its strict rules are broken enabling you to activate the appropriate security measures.

Wanderer Control: Residential care homes and nursing homes need to detect if a patient or person is trying to leave the premises and to give staff warning or activate appropriate security measures.

Asset protection: Assets can be linked to their owner by means of asset tags and normal access control tags. Only the owner or an authorised person will be allowed to remove the property from the building without an alarm being set off.

Can be used Standalone or interfaced into Granta using the 4422 Dual Reader Module

Product Description

Transmit Frequency 132kHz, Receive Frequency 66kHz. 64 data bits, read time typically 400ms. Impact-resistant polystyrene base and clip-on top cover. Weather resistant (not suitable for burial). Simple installation

Dimensions

H x W x D (mm)

195 x 110 x 70

Temperature

0 to 50°C

Environmental

IP54

Electrical

12Vdc, 350mA

Reading Range

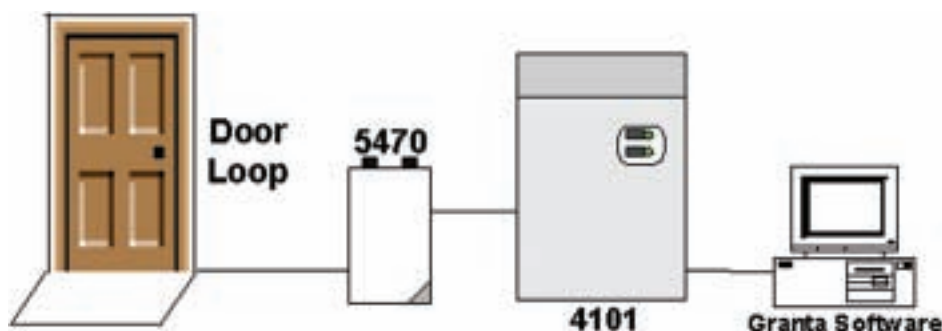
2 metre typical with Active 928 Card, 944 Asset Tag, 940 & 942 Wrist Tags

Reading Range Limitations

Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can greatly reduce the reading range – contact Technical Services for further advice

Price £ R.R.P.

741.00



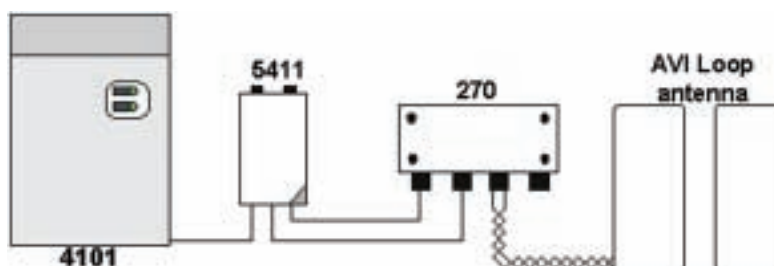
Integrated Multi-Function Door Control

Model No.

5616

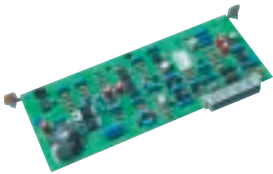


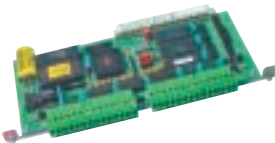
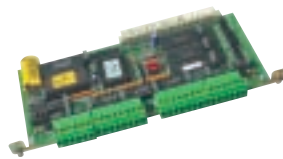
General Description	Automatic Vehicle Identification (AVI) Control featuring Cotag® Technology. Provides, by a buried loop in the ground prior to a car park barrier, a means to validate parking access, with a read range of up to 2 metres. Counting of car parking spaces and entry limitations can be achieved, using Configurable Logical Input / Output Control (CLIC). Loop Reader Pack consisting of an externally fitted 270 Loop Coupler and a 5411 Interface (internal use only). The process uses 970 Vehicle Tag which is specifically designed to withstand harsh environments, has been certified for use with Ministry of Defence military vehicles and has passed strict EMC approvals as required by the Home Office's VIDG Specification 5 for use by the Police & Fire Services. Can be used Standalone or interfaced into Granta using the 4422 Dual Reader Module Use only Active cards & tags
Product Description	Transmit Frequency 132kHz, Receive Frequency 66kHz. 64 data bits, read time typically 800ms, can be reduced to 100ms depending on security requirements. 5411 - impact-resistant polystyrene base and clip-on top cover. 270 - robust polycarbonate case. Weather resistant (not suitable for burial). Simple installation.
Dimensions H x W x D (mm)	270 - 80 x 160 x 56 5411 - 195 x 110 x 70
Temperature	270 - 40 to 50°C 5411 - 0 to 50°C
Environmental	270 - IP56 5411 - IP54
Electrical	12Vdc, 350mA
Reading Range	2 metre typical with Active 928 Card or -970 Vehicle Tag
Reading Range Limitations	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can greatly reduce the reading range
Price £ R.R.P.	741.00



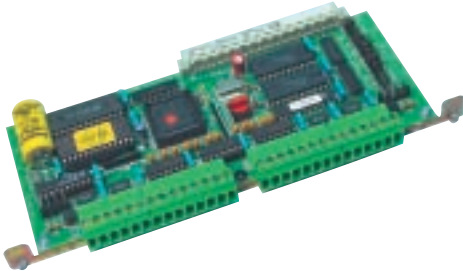
Granta Security Management System

Modules

Model No.	4210	4322	4422
			
General Description	RF Module. Must be fitted to in the 4101-2 Controller when any Cotag® Technology Reading Heads are being used - not required for 4010 Controllers	Dual Cotag® Reader Module. Used for connection of up to two Cotag® Technology Reading Heads. Used in 4010 Controllers to expand capacity from 2 Reading Heads to 4 – use 814 Reader Module Cable Assembly in fitting	Dual Reader Module. Used for connection of up to two 3rd party Readers. Accepts Wiegand or Clock & Data
Dimensions H x W x D (mm)	N/A	N/A	N/A
Temperature	–10 to 40°C	–10 to 40°C	–10 to 40°C
Environmental	Internal use only	Internal use only	Internal use only
Price £ R.R.P.	190.00	317.00	430.00

Model No.	814	4230	4232
			
General Description	Reader Module Cable Assembly for adding an additional Module to a 4010 Controller	Communication Modules. Used when a system has between 17 and 64 Reading Heads or Readers. Can be installed in either the 4101-2 Controller or a 4239 Communications Module Box, but must not be fitted into the 4010 Controller's expansion slot	Communications Module. Used to connect multiple Controllers where a system has less than 17 doors or as an RS485 repeater or as an interface on a multi-branch system. Can be installed in either the 4101-2 Controller or a 4239 Communications Module Box, but must not be fitted into the 4010 Controller's expansion slot
Dimensions H x W x D (mm)	N/A	N/A	N/A
Temperature	–10 to 40°C	–10 to 40°C	–10 to 40°C
Environmental	Internal use only	Internal use only	Internal use only
Price £ R.R.P.	41.00	1,589.00	440.00

Modules

Model No.	4235	4239
		
General Description	Communications Module. Used where a system has over 64 Reading Heads or Readers. Can be installed in either the 4101-2 Controller or a 4239 Communications Module Box, but must not be fitted into the 4010 Controller's expansion slot	Communications Module Case enabling installation of a Communications Module outside a 4101-2 Controller. Requires a 12V B02/217-1 PSU
Dimensions H x W x D (mm)	N/A	250 x 160 x 40
Temperature	-10 to 40°C	-10 to 40°C
Environmental	Internal use only	Internal use only
Price £ R.R.P.	P.O.A. - Call Customer Support	205.00

Model No.	4237	4253	4953
			
General Description	TCP/IP Module. Allows connection of 4101-2 or 4010 Controllers to a LAN or WAN. Requires 4884 Multiple Hardware License	16/8 Input Output Module. Inputs are four state monitored. Outputs are single change over pole relays	Input/Output Status Display Module. Fits to 4253 16/8 Input Output Module providing LED status of I/O
Dimensions H x W x D (mm)	N/A	N/A	N/A
Temperature	-10 to 40°C	-10 to 40°C	-10 to 40°C
Environmental	Internal use only	Internal use only	Internal use only
Price £ R.R.P.	259.00	413.00	105.00

Granta Security Management System

Granta Primo Access Control System

Granta Primo is a simple software package providing the basic features of an access control system: Cardholders, Access levels, Time Frames, Doors, Inputs, Outputs, Reports, Monitor, Alarms and Administration. Designed for ease of use with all functions presented in a single application window. The software supports both 4010 and 4010 Controllers configured within a single RS232 connected Hardware System. Fully translated software, help and on-line manuals. It can be seamlessly upgraded to the Granta Security Management System without any hardware redundancy, thus enabling systems to utilise the full suite of Granta software options. Granta Primo is a single PC application (no workstation support) and provides no support for dial-up remote sites, CLIC or other licensed Granta software applications.



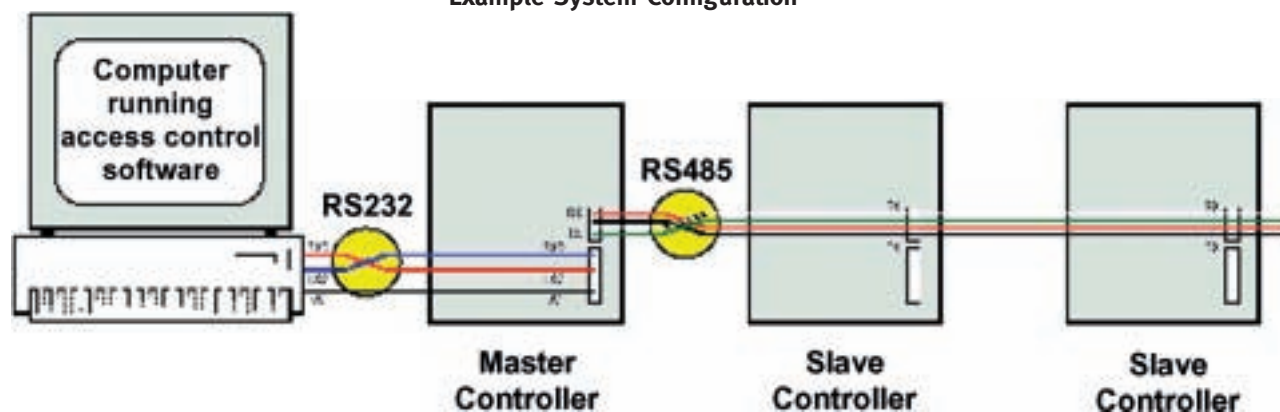
Granta Primo can also provide a simple cost effective solution to a companies access control needs by utilising Granta Primo Starter Packs. These packs are available in two or four door Proximity or Hands-Free packages. These packs are available in the following configurations:

- Primo-2-Prox:** 4010-CPP Controller, two PR100 Reading Heads and Granta Primo software
- Primo-4-Prox:** 4010-CPP Controller, four PR100 Reading Heads, 4322 Dual Cotag® Reader Module and 814 Reader Module Cable Assembly (pre installed) and Granta Primo software
- Primo-2-HF:** 4010-CPP Controller, two HF100 Reading Heads and Granta Primo software
- Primo-4-HF:** 4010-CPP Controller, four HF100 Reading Heads, 4322 Dual Cotag® Reader Module and 814 Reader Module Cable Assembly (pre installed) and Granta Primo software

Note: The 4010-CPP Controller within the Primo Packs does not support remote site connection to Granta software and operates with the communications address 'fixed' at 00, only one unit may be connected on-line to any Granta system

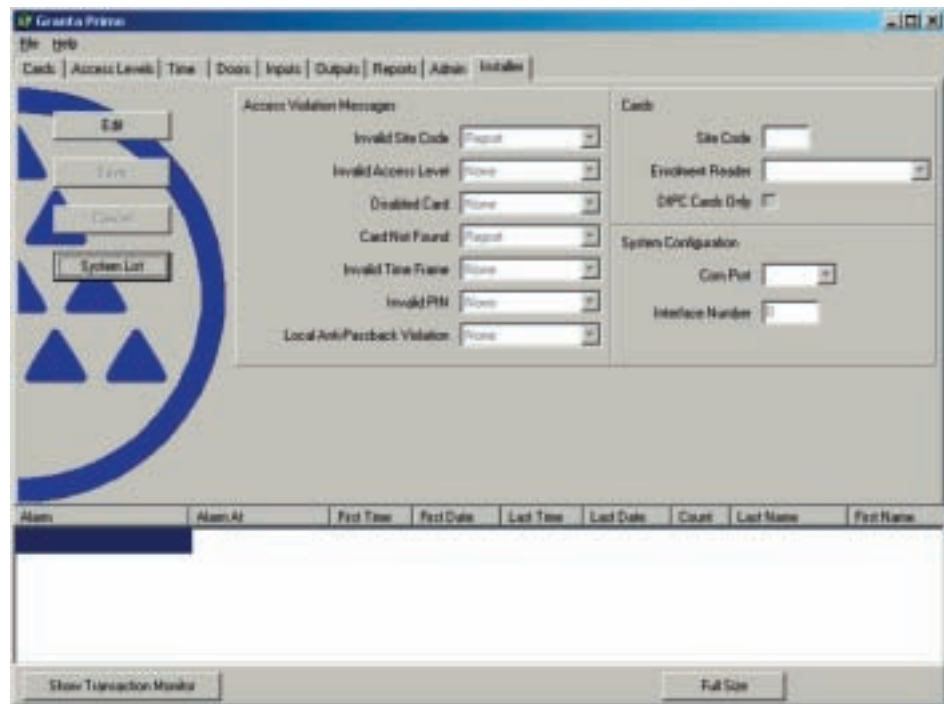
These systems can be expanded by the addition of 4010-CNP Slave Controllers. These Controllers can support up two Reading Heads as standard and up to four with the addition of a 4322 Dual Cotag® Reader Module and an 814 Reader Module Cable Assembly. As a companies security requirements grow these systems can easily be upgraded to full a Granta Security Management System without the need to change any hardware.

Example System Configuration



Model No.

4840



General Description

Granta Primo Software a simple package providing the basic features of an Access Control System: Cardholders, Access levels, Time Frames, Doors, Inputs, Outputs, Reports, Monitor, Alarms and Administration. Designed for ease of use with all functions presented in a single application window. The software supports both 4101 and 4010 Controllers configured within a single RS232 connected Hardware System. Fully translated software, help and on-line manuals. It can be seamlessly upgraded to the Granta Security Management System without change to the connected hardware. Granta Primo is a single PC application (no workstation support) and provides no support for dial-up remote sites, CLIC or other licensed Granta software applications. When combined with the 4010-CPP Controller and Reading Heads System provides cost effective two or four door, Hands-Free or Proximity Access Control System

Basic PC Requirements

Pentium PIII 500MHz, 128MB RAM, 5 GB hard drive, Windows 2000, NT 4.0 (Win 98), SVGS graphics card with 4MB RAM, 2 serial ports, 1 parallel port & CD ROM

System Features

Works with 4010 and 4101 modular controllers
"Shared RF" provides the most cost effective Hands-Free and Proximity solutions
Granta Primo can be upgraded at any time to Granta Security Management System giving access to a range of additional options such as alarm graphics, CCTV manager etc., without hardware redundancy

System Capacity

13,000 cardholders using 4010 Controllers, 75,000 cardholders using 4101 Controllers
1,023 access levels
64 time zones
2,048 doors

Price £ R.R.P.

52.00

Granta Security Management System

Granta Primo Hands-Free Packs

Model No.	Primo-2-Prox	Primo-4-Prox
		
General Description	Primo-2-Prox – A package comprising 4010-CPP Controller (see Note 1), two PR100 Reading Heads and Granta Primo software Primo-4-Prox – A package comprising 4010-CPP Controller (see Note 1), four PR100 Reading Heads, 4322 Dual Cotag® Reader Module and 814 Reader Module Cable Assembly (pre-installed) and Granta Primo software	
Dimensions H x W x D (mm)	4010-CPP – 280 x 260 x 140 PR100 – 143 x 40 x 18.5	
Temperature	4010-CPP – -10°C to +40°C PR100 – -30°C to +50°C	
Environmental	4010-CPP – Internal use only PR100 – IP55	
Electrical	Integral battery backed 3 amp, 85 to 264Vac PSU, battery not included. 4010 CPP – 1Amp, PR100 – 100mA	
Reading Head Capacity	Primo 2-Prox – 2, expandable to 4 using 4322 Dual Cotag® Reader Module and 814 Reader Module Cable Assembly Primo-4-Prox – 4	
Card Capacity	4010-CPP -2,5000, expandable to 13,000 using 4105 Memory Expansion Module 4101 – 13,000, expandable to 75,000 using 4105-2 Memory Expansion Module	
RS232 Interface	RS232 for PC connection – max 25 metres	
RS485 Interface	RS485 for Controller connection – max 1000 metres	
Memory Backup	5 years	
Tamper Protection	Tamper switch	
Outputs	Relay connections for door releases	
Price £ R.R.P.	Primo-2-Prox 955.00 Primo-4-Prox 1,377.00	

Note 1: The 4010-CPP Controller within the Primo Packs does not support remote site connection to Granta software and operates with the communications address 'fixed' at 00, only one unit may be connected on-line to any Granta system. The system can be expanded by the addition of further 4010-CNP controllers as slaves.

Granta Primo Hands-Free Packs

Model No.	Primo-2-HF	Primo-4-HF
		
General Description	Primo-2-HF - A package comprising 4010-CPP Controller (see Note 1), two Hands-Free HF100 Reading Heads and Granta Primo software Primo-4-HF - A package comprising 4010-CPP Controller (see Note 1), four Hands-Free HF100 Reading Heads, 4322 Dual Cotag® Reader Module and 814 Reader Module Cable Assembly (pre-installed) and Granta Primo software	
Dimensions H x W x D (mm)	4010-CPP – 280 x 260 x 140 HF100 – 265 x 220 x 29.3	
Temperature	4010-CPP – -10°C to +40°C HF100 – -30°C to +50°C	
Environmental	4010-CPP – Internal use only HF100 – IP55	
Electrical	Integral battery backed 3Amp, 85 to 264Vac PSU, battery not included 4010 CPP - 1Amp HF100 – 100mA	
Reading Head Capacity	Primo-2-HF – 2, expandable to 4 using 4322 Dual Cotag® Reader Module and 814 Reader Module Cable Assembly Primo-4-HF – 4	
Card Capacity	4010-CPP -2,5000, expandable to 13,000 using 4105 Memory Expansion Module 4101 – 13,000, expandable to 75,000 using 4105-2 Memory Expansion Module	
RS232 Interface	RS232 for PC connection – max 25 metres	
RS485 Interface	RS485 for Controller connection – max 1000 metres	
Memory Backup	5 years	
Tamper Protection	Tamper switch	
Outputs	Relay connections for door releases	
Price £ R.R.P.	Primo-2-HF 1,115.00 Primo-4-HF 1,695.00	

Note 1: The 4010-CPP Controller within the Primo Packs does not support remote site connection to Granta software and operates with the communications address 'fixed' at 00, only one unit may be connected on-line to any Granta system. The system can be expanded by the addition of further 4010-CNP controllers as slaves.

Granta Security Management System

Granta Primo Slave Controller

Model No.

4010-CNP



General Description	Controller for two Cotag® Technology Reading Heads , includes RF circuitry and 3 amp PSU. Can be expanded to support four Reading Heads by installing a 4322 Dual Cotag® Reader Module and an 814 Reader Module Cable Assemble. May be used on line to any Granta system, as a remote site controller or as a slave controller within a small Primo system
Dimensions H x W x D (mm)	280 x 260 x 140
Temperature	-10 to 40 °C
Environmental	Internal use only
Electrical	Integral battery backed 3Amp, 85 to 264Vac PSU, battery not included. 1Amp
Reading Head Capacity	2, expandable to 4 using 4322 Dual Cotag® Reader Module and 814 Reader Module Cable Assembly
Card Capacity	4010-CNP -2,5000, expandable to 13,000 using 4105 Memory Expansion Module 4101 – 13,000, expandable to 75,000 using 4105-2 Memory Expansion Module
RS232 Interface	RS232 for PC connection – max 25 metres
RS232 Interface	RS485 for Controller connection – max 1000 metres
Memory Backup	5 years
Tamper Protection	Tamper switch
Outputs	Relay connections for door releases
Price £ R.R.P.	1,195.00

Granta Primo Modules

Model No.	4322	814
		
General Description	Dual Cotag® Reader Module. Used for connection of up to two Cotag® Technology Reading Heads. Used in 4010 Controllers to expand capacity from 2 Reading Heads to 4 – use 814 Reader Module Cable Assembly in fitting	Reader Module Cable Assembly for adding an additional Module to a 4010 Controller
Dimensions H x W x D (mm)	N/A	N/A
Temperature	–10 to 40°C	–10 to 40°C
Environmental	Internal use only	Internal use only
Price £ R.R.P.	317.00	41.00

Model No.	4105
	
General Description	Memory Expansion Module. Used to increase card capacity in 4010 Controllers from 2,500 to 13,000. Uses a dedicated slot. All Controllers on the system must be equipped. (The 4105 cannot be used in 4101-2 Controllers)
Dimensions H x W x D (mm)	N/A
Temperature	–10 to 40°C
Environmental	Internal use only
Price £ R.R.P.	245.00

Granta Security Management System

Reading Heads

Model No.	PR100	SP100	HD100-2
			
General Description	Proximity Reading Head, mullion mount. Designed to suit door architraves and compliment all working environments	Switch Plate Proximity Reading Head. Designed to fit most single gang back-boxes	Heavy Duty Proximity Reading Head designed for both modern office environments and vulnerable locations
Price £ R.R.P.	116.00	116.00	116.00

Model No.	PM100	HF100	270
			
General Description	Panel Mount Proximity Reading Head. Designed to fit most remote 3rd party panels, such as Door Entry Phones	Hands-Free Reading Head offering unrivalled reading range using Cotag® Active Technology, internal use only	Loop Coupler. Features Cotag® Technology. Provides, by a buried loop in the ground or round a door, a read range of up to 2 metres
Price £ R.R.P.	116.00	116.00	370.00

Model No.	HFG100	HFG100E	5516
			
General Description	Hands-Free 'Glass' Reading Head. 300mm x 300mm, suitable for screening with corporate logo	Hands-Free 'Glass' Reading Head. 300mm x 1000mm, suitable for screening with corporate logo	Loop Reader Pack. Features Cotag® Technology. Provides, by a buried loop in the ground or round a door, suitable for AVI
Price £ R.R.P.	1,369.00	1,615.00	635.00

Readers

Model No.	SC7	SC7P	SC500
			
General Description	Smart Card Reader suitable for use with from Mifare® Smart Cards. Reads CHIP serial number only	Smart Card Reader with built in Keypad suitable for use with from Mifare® Smart Cards. Reads CHIP serial number only	Smart Card Reader suitable for use with from Mifare® Smart Cards. Reads CHIP serial number and a sector of the MAD
Price £ R.R.P.	125.00	295.00	215.00

Model No.	SC500P	M-43	BC-16
			
General Description	Smart Card Reader with built in Keypad suitable for use with from Mifare® Smart Cards. Reads CHIP serial number and a sector of the MAD	Keypad only. May only be used in parallel with Proximity or Hands-Free Reading Head	Magnetic Stripe Card-only Reader. For uneven surfaces use the mounting plate
Price £ R.R.P.	345.00	145.00	166.00

See page 77 for full details on Bewator's Reader Technology

Granta Security Management System

Cards and Tags

Model No.	968	961	958-102	958-101
				
General Description	Passive clamshell card	Passive keyring tag	Passive ISO laminated card	Passive ISO laminated card with IS7811/2 Magnetic Stripe
Price £ R.R.P.	2.65	3.70	4.55	4.89

Model No.	928	928-Clear	928-Red	928-Green
				
General Description	Active clamshell card	Clear Active clamshell card	Red Active clamshell card	Green Active clamshell card
Price £ R.R.P.	8.99	9.35	9.35	9.35

Model No.	928-Purple	928-Blue	911	970
				
General Description	Purple Active clamshell card	Blue Active clamshell card	Active keyring tag	Active vehicle tag
Price £ R.R.P.	9.35	9.35	11.65	28.65

Model No.	IB-1	SC558
		
General Description	Magnetic Stripe Card	Mifare® Smart Card
Price £ R.R.P.	1.05	3.45

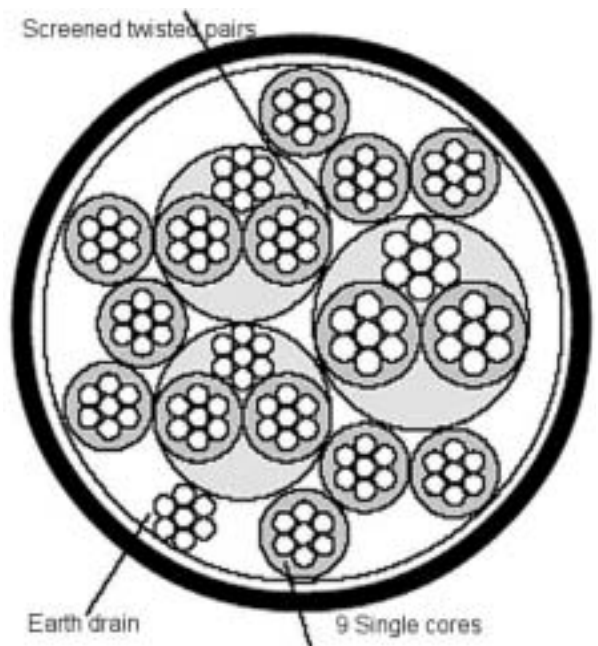
See page 84 for full details on Bewator's Card Technology

Power Supplies and Custom Cable

Model No.	4910	4911	B02/217-1
			
General Description	Power Supply with battery back-up. 12Vdc 5Amp rating. Can power up to five 4101-2 Controllers (not including electric door releases or 3rd part Readers)	Power Supply without battery back-up. 12Vdc 5Amp rating. Can power up to five 4101-2 Controllers (not including electric door releases or 3rd part Readers)	12V Power Supply for 633-2-V1 Programmer and 4239 Communication Module Case
Dimensions H x W x D (mm)	350 x 148 x 132	350 x 148 x 132	N/A
Temperature	-10 to 40°C	-10 to 40°C	-10 to 40°C
Environmental	Internal use only	Internal use only	Internal use only
Price £ R.R.P.	453.00	425.00	32.00

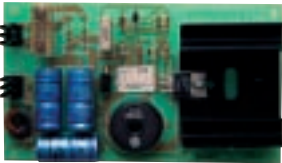
Custom Cable

Model No.	812-1 / 812-3
	
General Description	Custom Cable for connecting access points to controllers. Contains 3-screened twisted pairs & 9 single cores in an overall screen. Available in 100m or 300m drums. Low Smoke/Zero Halogen specification
Price £ R.R.P.	812-1 399.00 812-3 837.00



Granta Security Management System

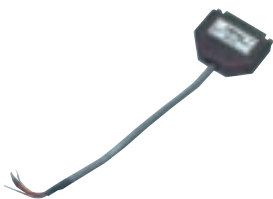
Accessories and Spares

Model No.	4915	4105-2	4105
			
General Description	Auxiliary 24V Converter. Fits in 4910 / 4911 / 4010 to give a 24V output	Memory Expansion Module. Used to increase card capacity in 4101-2 Controllers from 13,000 to 75,000. Uses a dedicated slot, not a standard Module Slot. All Controllers with Reader Modules must be equipped if the database exceeds 13,000. (The 4105-2 cannot be used in 4010 Controllers)	Memory Expansion Module. Used to increase card capacity in 4010 Controllers from 2,500 to 13,000. (The 4105 cannot be used in 4101-2 Controllers)
Price £ R.R.P.	137.00	245.00	245.00

Model No.	ID100	4922	4988
			
General Description	Remote Indicator. Used to provide indication when a loop system is installed	Dual PINpad Data Adaptor (DPDA). Add-on unit for 4322 or 4422 Reader Module. Enables direct connection of two M-43 Keypads or row and column Keypads interfaced to a 4988 PINpad Data Converter	PINpad Data Converter (PDC). Enables connection of a single industry standard 4 x 3 row and column Keypad to a 4922 DPDA
Price £ R.R.P.	42.00	105.00	75.00

Granta Security Management System

Accessories & Spares

Model No.	5810	5311	5411
			
General Description	RS232 Converter for 5000 Series Readers	Reader Interface allowing Cotag® Technology Reading Heads to integrate into non Cotag® systems, typically Access Control and other similar applications.	Multi-Function Reader Interface , for Healthcare and Asset Tagging applications. May be used with an Cotag® Reading Head
Price £ R.R.P.	52.00	319.00	529.00

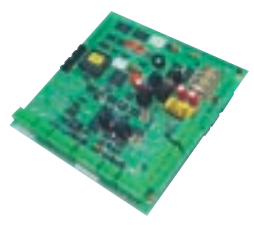
Model No.	MODEM-DU-HST	MODEM-DU-REM	4103-2
			
General Description	3Com 56K Fax Modem for PC connection	Westermo DIN rail mounted Modem for Controller connection	Motherboard for 4101-2 Controller
Price £ R.R.P.	319.00	745.00	996.00

Model No.	D02/703	D02/704
		
General Description	Base for 4101-2 Controller	Cover for 4101-2 Controller
Price £ R.R.P.	149.00	85.00

Granta Security Management System

Accessories & Spares

Model No.	D02/705	P02/299	4102
			
General Description	Chassis for 4101-2 Controller	Auxiliary Power Connector for 4101-2 Controller	Modular Controller Sub-assembly for 4101-2 Controller
Price £ R.R.P.	116.00	65.00	1,115.00

Model No.	EPROM	4012-C	4012-S
			
General Description	Eprom for Controllers or Modules – Please consult Technical Services for specific unit	Controller PCA for 4010 Cotag® Reading Technology Controller	Controller PCA for 4010 Non-Cotag® Reader Technology Controller
Price £ R.R.P.	89.00	659.00	659.00

Model No.	D02/730	D02/731	P02/301
			
General Description	Base for 4910/PSU PSU	Cover for 4910/4911 PSU	Battery Management Board for 4910/4911 PSU
Price £ R.R.P.	75.00	65.00	65.00

Video Integration

Eventys Pro Digital Video Management System

The Eventys Pro Digital Video Management System has the unique capability of supporting IP and analogue cameras simultaneously, and includes audio recording, superior motion detection with frame progression technology and advanced search facilities. This versatile DVMS is also compatible with Bewator analogue CCTV solutions and offers very powerful system connectivity and remote monitoring capabilities. Recorded video can be duplicated and stored anywhere using standard IT and network storage solutions, resulting in very cost effective, secure, and virtually unlimited storage capacity.

Access Control Integration

Eventys can easily integrate with Bewator Granta. A 'trigger' from the intruder alarm or fire alarm, invalid card/code, etc can direct selected cameras to record pictures before, during and after the alarm input. The entire sequence of events can then be played back directly in Granta via reports or video images, providing a direct time synchronisation between the alarm event and the image.

Granta's CCTV Manager Software Option also provides integration with Bewator's Video controllers, such as Visilynx 3i. Full on-screen PTZ control of any of the cameras on the CCTV system is provided by the unique point and click interface on the live video window. In addition, access control events can be configured to automatically trigger a CCTV action e.g. send a camera to a preset position and switch the video signal to a predefined monitor. Still images can also be captured automatically and are date, time and camera name stamped to ensure easy viewing of the required files.

Visilynx 3i Controller



CCTV Manager Camera Control



- 4, 8, 16 or 32 video channels
- 500GB to 3TB Hard Drives available
- Audio options for 2 or more channels
- Advanced and easy to use replay features incorporating intuitive searching (graphical, event, motion, date & time)
- VGA and composite (BNC) main monitor output
- Built - in DVD Writer
- Individual camera recording settings (frame rate and image quality)
- Individual camera recording scheduling (Continuous, motion-based or event-triggered)
- Advanced retrospective motion detector
- Integrates with Visilynx video matrices
- Compatible with Molynx protocol and 3rd party dome cameras,
- Configurable alarm input and output
- Image authentication
- MAMI - Material mirror - automatically pushes data to central server / storage at regular intervals for backup / archive / redundancy



Path to the future

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A global company providing local service

Bewator (a subsidiary of Siemens Building Technologies Group since November 2005) is Europe's leading supplier of innovative security products and systems, encompassing Access Control, CCTV, Intruder and Integrated Security Management Systems.

Siemens Building Technologies (SBT) is a division of Siemens AG and combines building security and building automation solutions within a single company, SBT has fire and security operations world-wide and Siemens is one of the world's largest electrical engineering and electronics companies, with a global workforce of more than 461,000 employees.

Bewator Limited serves the UK and Republic of Ireland for pre-qualification, supply, training and after sales support for all security products bearing the Bewator and Siemens brands, Bewator Limited is an active member of the British Security Industry Association and is an ISO9001 approved company. All Bewator and Siemens products meet international standards including FCC and CE.

For Further information please contact us on 0871 386 0835

Bewator's Cotag® Technology Readers and Cards are designed to work with your Access Control System to deliver superior solutions. The range comprises Proximity Readers, Hands-Free Readers, Smart Card Readers, Magnetic Stripe Readers and a variety of cards to suit all environments and building specifications. When used with Active Technology cards and tags, Bewator Readers provide unrivalled reading range to speed flow of personnel whilst securing even the busiest of sites



Reader & Card Technology	66
Entro 5 & Entro Lite Readers	67
Proximity Readers	67
Hands-Free Readers	69
Smart Card Readers	72
Magnetic Stripe Readers and Keypads	73
Reader Accessories	74
Cards & Tags	75
Granta Reading Heads	77
Proximity Reading Heads	77
Hands-Free Reading Heads	79
Smart Card Readers	81
Magnetic Stripe Readers & Keypads	82
Reader Accessories	83
Cards & Tags	84
Card Programmers	86
Custom Card Programming & Printing	87

Reader and Card Technology

Patented Cotag® Reading Technology

Real Hands-Free is based upon Active Tag Technology where an onboard long-life lithium battery enhances the output signal from the tag to the Reading Head. The key advantage using Active Technology is the significant increase in range from which the tag can be successfully interrogated by the Reader, this being typically between two to three times greater compared to that of common place passive cards.

Active cards and tags use low frequency magnetic signals, which have the key advantage of being able to read through non-magnetic materials with little or no reduction in range. This allows tags to be interrogated without to need to remove them from pockets or handbags thus giving the user unparalleled freedom and convenience without compromising site security. Active technology can overcome problems associated with vandalism simply by mounting the Reader within walls or mounted 'safe-side' within glass-fronted lobby/reception areas.

Passive Proximity Technology is based upon the same principles as active **Real Hands-Free**, but without the onboard battery, this results in a significantly shorter reading range as its output power is derived solely from the magnetic fields generated by the Reader.

All Bewator's Cotag® Active and Passive Technology cards and tags can be mixed together on any Bewator system, allowing the customer to issue the most suitable technology card or tag to that user depending upon their requirements. This is particularly useful for facilitating disabled staff requirements and also for clean room operations where garments typically only have pockets on the inside.

Automatic Vehicle Identification (AVI)

RFID tagging of vehicles creates particular technical challenges due to the high levels of electrical background noise caused by the ignition system and physical vibration/stone impacts associated with normal road going conditions. Bewator's Cotag® Active Technology AVI addresses these and provides a real world solution for use in car parking and fleet management applications, giving fast and reliable reading of tags fitted to the underside of vehicles. The 970 Vehicle Tag is specifically designed to withstand harsh environments, being not only certified for use with Ministry of Defence military vehicles but also passing strict EMC approvals as required by the Home Office's VIDG Specification 5 for use by the Police & Fire Services.

OEM Readers

Bewator manufacturer a range of OEM Readers that are suitable for third party systems or for systems where existing cables runs better suite Wiegand or Clock & Data Readers. Please consult our Sales Support Team for more details.



Entro and Entro Lite Proximity Readers

Model No.	PR500-AB	SP500-AB
		
General Description	Proximity Reader, mullion mount. Designed to suit door architraves and compliment all working environments. Suitable for both internal and external installations. Compatible with all Cotag® Technology Active and Passive cards & tags	Switch Plate Proximity Reader. Designed to fit most single gang back-boxes and compliment all working environments. Suitable for both internal and external installations. Compatible with all Cotag® Technology Active and Passive cards & tags
Product Specification	Transmit frequency 132kHz, Receive frequency 66kHz. 64 data bits, read time typically 400ms. 3 separate LEDs & onboard Sounder (internal/external control). ABS Base housing fully encapsulated electronics, Clip on ABS Front Cover	Transmit frequency 132kHz, Receive frequency 66kHz. 64 data bits, read time typically 400ms. 3 separate LEDs & onboard Sounder (configurable internal/external control). ABS Base housing fully encapsulated electronics, Clip on ABS Front Cover.
Dimensions H x W x D (mm)	143 x 40 x 18.5	86 x 86 x 14
Temperature	-30 to 50°C	-30 to 50°C
Environmental	IP55	IP55
Electrical	10.6 - 32Vdc, 100mA	10.6 - 32Vdc, 100mA
Reading Range	30cm with Active IB-928 Card, 10cm with Passive IB-968 Card	30cm with Active IB-928 Card, 10cm with Passive IB-968 Card
Reading Range Limitations	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%
Price £ R.R.P.	160.00	160.00

Reader and Card Technology

Entro & Entro Lite Proximity Readers

Model No.	PM500-AB	HD500-2-AB	BC43-Prox
			
General Description	Panel Mount Proximity Reader. Designed to fit most remote 3rd party panels, such as Door Entry Phones. Supplied complete with a custom machined perspex front panel for increased aesthetic appeal. Suitable for both internal and external installations	Heavy Duty Proximity Reader designed for both modern office environments and vulnerable locations requiring increased protection. Suitable for both internal and external installations	Proximity Reader with built-in keypad. Built-in keypad offers the possibility of combined access control with both a card and a PIN for higher security. The metal casing used in Bewator's robust designs protects the reader against tampering and makes it extremely vandal-resistant
Product Specification	Transmit frequency 132kHz, Receive frequency 66kHz. 64 data bits, read time typically 400ms. 3 separate LEDs & onboard Sounder (configurable internal/external control). High impact polycarbonate outer casing, fully potted electronics	Transmit frequency 132kHz, Receive frequency 66kHz. 64 data bits, read time typically 400ms. 3 separate LEDs & onboard Sounder (internal/external control). High impact polycarbonate outer casing, fully potted electronics with stainless steel surround	Built-in keypad, metal casing, vandal-resistant... Transmit frequency 132kHz, Receive frequency 66kHz. 64 data bits, read time typically 400ms
Dimensions H x W x D (mm)	68 x 73 x 13.5	120 x 100 x 18	160 x 110 x 47
Temperature	-30 to 50°C	-30 to 50°C	-35 to 50°C
Environmental	IP55	IP55	IP55
Electrical	10.6 to 32Vdc, 100mA	10.6 to 32Vdc, 100mA	12 to 24Vdc, 100mA
Reading Range	25cm with Active IB-928 Card 7cm with Passive IB-968 Card	25cm with Active IB-928 Card 8cm with Passive IB-968 Card	10cm with Active 928 Tag, 3cm with Passive 968 Tag
Reading Range Limitations	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%
Price £ R.R.P.	160.00	175.00	287.00

Entro and Entro Lite Hands-Free Readers

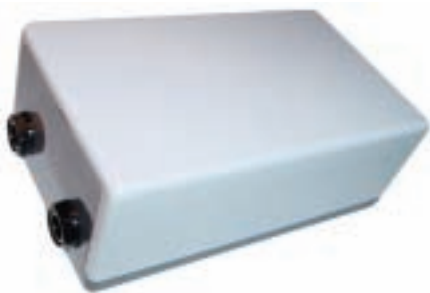
Model No.	HF500-Entro	BC-5511
		
General Description	Hands-Free Reader offering unrivalled reading range using Cotag® Active Technology. Easy to install, slim, modern design to compliment all working environments. Suitable for internal use only	Hands-Free Reader Pack offering unrivalled reading range using Cotag® Active Technology. Pack Includes HF100 Reading Head (external use) and BC-5311 Reader Interface (internal use only). Easy to install, slim, modern design to compliment all working environments
Product Specification	Transmit Frequency 132kHz, Receive Frequency 66kHz. 64 data bits, read time typically 400ms, 800ms when noise rejecting AVI mode selected, battery conservation routines. ABS Base, Clip on ABS Front Cover. 3 separate LEDs & onboard Sounder (internal/external control)	Transmit Frequency 132kHz, Receive Frequency 66kHz. 64 data bits, read time typically 400ms, 800ms when noise rejecting AVI mode selected, battery conservation routines. ABS Base, Clip on ABS Front Cover. 3 separate LEDs & onboard Sounder (internal/external control)
Dimensions H x W x D (mm)	265 x 220 x 29.3	HF100 – 265 x 220 x 29.3 BC-5511 – 195 x 110 x 40
Temperature	0 to 50°C	-40 to 70 °C. (HF100). 0 to 50°C (BC-5311)
Environmental	IP54	IP54
Electrical	12Vdc, 350mA	12Vdc, 350mA
Reading Range	100cm with Active IB-928 Card 30cm with Passive IB-968 Card	100cm typical with Active IB-928 Card 30cm with IB-968 Passive Card
Reading Range Limitations	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%
Price £ R.R.P.	349.00	405.00

Reader and Card Technology

Entro and Entro Lite Hands-Free Readers

Model No.	HFG500-AB	HFG500E-AB
		
General Description	Hands-Free 'Glass' Reader. 300mm x 300mm, suitable for screening with corporate logo. Supplied with BC-5270 Integrated Loop Reader Pack as interface	Hands-Free 'Glass' Reader. 1000mm x 300mm. Provides Hands-Free performance regardless of where the card or tag is carried (belt or chain), suitable for screening with corporate logo. Supplied with BC-5270 Integrated Loop Reader Pack as interface
Product Specification	Transmit Frequency 132kHz, Receive Frequency 66kHz. Laminated Glass Reader. Supplied with a separate BC-5270 Loop couple Integrated Loop Reader Pack. Impact-resistant polystyrene base and clip-on top cover (BC-5270). Simple installation	Transmit Frequency 132kHz, Receive Frequency 66kHz. Laminated Glass Reader. Supplied with a separate BC-5270 Loop couple Integrated Loop Reader Pack. Impact-resistant polystyrene base and clip-on top cover (BC-5270). Simple installation
Dimensions H x W x D (mm)	300 x 300 9 (excludes fixings)	1000 x 300 x 9 (excludes fixings)
Temperature	-40 to 70°C	-40 to 70°C
Environmental	IP64 (excludes BC-5270 Loop Coupler)	IP64 (excludes BC-5270 Loop Coupler)
Electrical	12Vdc, 350mA	12Vdc, 350mA
Reading Range	80cm typical with Active IB-928 Card 25cm with IB-968 Passive Card	80cm typical with Active IB-928 Card 25cm with IB-968 Passive Card
Reading Range Limitations	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%
Price £ R.R.P.	1,535.00	1,765.00

Entro and Entro Lite Hands-Free Readers

Model No.	BC-5270	BC-5516
		
General Description	Integrated Loop Reader Pack. Features Cotag® Technology. Provides, by a buried loop in the ground or round a door, a read range of up to 2 metres. Use only Active cards & tags	Loop Reader Pack. Features Cotag® Technology. Provides, by a buried loop in the ground or round a door, a read range of up to 2 metres. Use only allows external fitting using a BC-270 Loop Coupler (external use) and a BC-5311 Interface (internal use only). Suitable for Automatic Vehicle Identification (AVI). Use only Active cards & tags
Product Specification	Transmit Frequency 132kHz, Receive Frequency 66kHz.64 data bits, read time typically 400ms, 800ms when noise rejecting AVI mode selected, battery conservation routines. Impact-resistant polystyrene base and clip-on top cover. Integrated Loop Reader inside one enclosure. TX & RX status LEDs and onboard sounder. Configurable onboard relay	Transmit Frequency 132kHz, Receive Frequency 66kHz.64 data bits, read time typically 400ms. BC-5311 - impact-resistant polystyrene base and clip-on top cover. BC-270 - robust polycarbonate case. Weather resistant (not suitable for burial). Simple installation. Tunes simple wire loops for access applications.
Dimensions H x W x D (mm)	195 x 110 x 70	BC-270 - 80 x 160 x 56 BC-5311 195 x 110 x 70
Temperature	0 to 50°C	BC-270 - -40 to 50°C BC-5311 0 to 50°C
Environmental	IP54	BC-270 - IP56 BC-5311 - IP54
Electrical	12Vdc, 350mA	12Vdc, 350mA
Reading Range	2 metre typical with Active IB-928 Card or IB-970 Vehicle Tag	2 metre typical with Active IB-928 Tag or IB-970 Vehicle tag
Reading Range Limitations	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can greatly reduce the reading range – contact Technical Services for further advice	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%
Price £ R.R.P.	635.00	635.00

Reader and Card Technology

Entro & Entro Lite Smart Card Readers

Model No.	SC7	SC7P	SC500	SC500P
				
General Description	Low Cost Smart Card Reader suitable for use with from Mifare® Smart Cards. Reads CHIP serial number only	Low Cost Smart Card Reader with Keypad suitable for use with from Mifare® Smart Cards. Reads CHIP serial number only	Smart Card Reader suitable for use with from Mifare® Smart Cards. Reads CHIP serial number or a sector in the MAD	Smart Card Reader with Keypad suitable for use with from Mifare® Smart Cards. Reads CHIP serial number or a sector in the MAD
Product Specification	Reads the chip serial number from Mifare® cards and provides a Wiegand or Clock & Data output.	Reads the chip serial number from Mifare® cards and provides a Wiegand or Clock & Data output.	Reads the chip serial number from Mifare® cards and provides a Wiegand or Clock & Data output or can read a sector in the MAD	Reads the chip serial number from Mifare® cards and provides a Wiegand or Clock & Data output or read a sector from the MAD
Dimensions H x W x D (mm)	110 x 44 x 24	110 x 44 x 24	110 x 44 x 24	110 x 44 x 24
Temperature	-40 to 55°C	-40 to 55°C	-40 to 55°C	-40 to 55°C
Environmental	IP67	IP67	IP67	IP67
Electrical	10 - 30Vdc, 200mA	10 - 30Vdc, 200mA	10 - 30Vdc, 200mA	10 - 30Vdc, 200mA
Reading Range	70mm with SC558 card	70mm with SC558 card	70mm with SC558 card	70mm with SC558 card
Price £ R.R.P.	125.00	295.00	215.00	345.00

Entro & Entro Lite Magnetic Stripe Readers and Keypads

Model No.	BC-16	BC-43	M-43
			
General Description	Magnetic Stripe Card-only Reader. For uneven surfaces use the mounting plate. Suitable for external or internal use	Magnetic Stripe Card Reader with built-in keypad. Built-in keypad offers the possibility of combined access control with both a card and a PIN for higher security. The metal casing used in Bewator's robust designs protects the reader against tampering and makes it extremely vandal-resistant	Keypad only. May also be used in parallel with Proximity or Hands-Free Readers.
Product Specification	Magnetic Stripe Card Reader, tough metal construction, standard clock/data output, waterproof, reading head rated at 1,000,000 swipes	Magnetic Stripe Card Reader with built-in keypad. The metal casing used in Bewator's robust designs protects the reader against tampering and makes it extremely vandal-resistant	Keypad to DC-12 and DC-22 Door Controllers. Cast metal housing, tamper switch fitted, back-lit keypad
Dimensions H x W x D (mm)	89 x 34 x 34	160 x 160 x 47	140 x 80 x 40
Temperature	-20 to 70°C	-35 to 50°C	-35 to 50°C
Environmental	IPX7	IP54	IP54
Electrical	4.5 – 6.5Vdc, 60mA	12 to 24Vdc, 50mA	8 – 40Vdc, 50mA
Reading Range	N/A	N/A	N/A
Reading Range Limitations	N/A	N/A	N/A
Price £ R.R.P.	166.00	203.00	145.00

Reader and Card Technology

Entro & Entro Lite Reader Accessories

Model No.	BB3	BB4	MOUNTING
			
General Description	Flush Mounting Kit for M-43 Keypad	Flush Mounting Kit for BC-43 and BC-43Prox Readers	Mounting Kit for BC-16 when mounted on uneven surfaces
Price £ R.R.P.	42.00	46.00	28.00

Model No.	SH-2	SH-4	TX20H
			
General Description	Rain Hood for M-43 Keypad	Rain Hood for BC-43, BC-43Prox and Readers	Security Driver Bit for HD500-2-AB (RESISTORX)
Price £ R.R.P.	43.00	43.00	5.50

Model No.	SKR-SN	SKR-YN
		
General Description	Security Screw Driver , Torx	Security Screws , M4 x 10 Secufast (pack of 12)
Price £ R.R.P.	13.00	3.20

Entro, Entro Lite and Compact Cardreader Cards and Tags

Model No.	IB-968	IB-961	IB-958	IB-958M
				
General Description	Passive encoded clamshell card. Cost effective Passive card solution. Up to 30cm read range with Hands-Free Reader, 12cm with Proximity Reader	Passive encoded keyring tag. Tough polycarbonate case. Up to 25cm read range with Hands-Free Reader, 10cm with Proximity Reader	Passive encoded ISO laminated card. Ideal for Photo ID applications, can be custom printed both sides. Up to 30cm read range with Hands-Free Reader, 12cm with Proximity Reader	Passive encoded ISO laminated card with IS7811/2 Magnetic Stripe. Ideal for Photo ID applications, can be custom printed both sides. Up to 30cm read range with Hands-Free Reader, 12cm with Proximity Reader
Price £ R.R.P.	2.65	3.70	4.55	4.89

Model No.	IB-928	IB-928-Clear	IB-928-Red	IB-928-Green
				
General Description	Active encoded clamshell card Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reader, 30cm with Proximity Reader	Clear Active encoded clamshell card. Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reader, 30cm with Proximity Reader	Red Active encoded clamshell card Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reader, 30cm with Proximity Reader	Green Active encoded clamshell card Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reader, 30cm with Proximity Reader
Price £ R.R.P.	8.99	9.35	9.35	9.35

Reader and Card Technology

Entro, Entro Lite and Compact Cardreader Cards and Tags

Model No.	IB-928-Purple	IB-928-Blue	IB-911	IB-970
				
General Description	Purple Active encoded clamshell card Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reader, 30cm with Proximity Reader	Blue Active encoded clamshell card Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reader, 30cm with Proximity Reader	Active encoded keyring tag . Featuring Cotag® Active Technology. Tough polycarbonate case. Up to 75cm read range with Hands-Free Reader, 25cm with Proximity Reader	Active encoded vehicle tag . Featuring Cotag® Active Technology. Used with Loop Technology Reader, attaches to underside of vehicle
Price £ R.R.P.	9.35	9.35	11.65	28.65

Model No.	IB-1	SC558
		
General Description	Magnetic Stripe Card. Factory encoded, supplied sequentially	Mifare® Smart Card Note these cards are unprogrammed
Price £ R.R.P.	1.05	3.45

Cards & Tags Read Range Table

	IB-968	IB-961	IB-958	IB-928	IB-911
HF500-Entro	30cm	25cm	30cm	100cm	75cm
PR500-AB	12cm	10cm	12cm	30cm	25cm
SP500-AB	10cm	8cm	10cm	30cm	25cm
HD500-2-AB	8cm	6cm	8cm	25cm	20cm
PM500-AB	8cm	6cm	8cm	25cm	20cm
BC-615Prox	3cm	3cm	3cm	10cm	10cm
BC-43Prox	3cm	3cm	3cm	10cm	10cm

Granta Proximity Reading Heads

Model No.	PR100	SP100
		
General Description	High Performance Proximity Reading Head. Designed to suit door architraves and compliment all working environments. Suitable for both internal and external installations. Compatible with all Cotag Technology Active and Passive cards & tags	High Performance Switch Plate Proximity Reading Head. Designed to fit most single gang back-boxes and compliment all working environments. Suitable for both internal and external installations. Compatible with all Cotag Technology Active and Passive cards & tags
Product Specification	Transmit frequency 132kHz, Receive frequency 66kHz. 64 data bits, read time typically 400ms. 3 separate LEDs & onboard Sounder (internal/external control). ABS Base housing fully encapsulated electronics, Clip on ABS Front Cover	Transmit frequency 132kHz, Receive frequency 66kHz. 64 data bits, read time typically 400ms. 3 separate LEDs & onboard Sounder (configurable internal/external control). ABS Base housing fully encapsulated electronics, Clip on ABS Front Cover
Dimensions H x W x D (mm)	143 x 40 x 18.5	86 x 86 x 14
Temperature	-30 to 50°C	-30 to 50°C
Environmental	IP55	IP55
Electrical	10.6 - 32Vdc, 100mA	10.6 - 32Vdc, 100mA
Reading Range	30cm with Active 928 Card, 10cm with Passive 968 Card	30cm with Active 928 Card, 10cm with Passive 968 Card
Reading Range Limitations	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%
Price £ R.R.P.	116.00	116.00

Reader and Card Technology

Granta Proximity Reading Heads

Model No.	PM100	HD100-2
		
General Description	High Performance Panel Mount Proximity Reading Head. Designed to fit most remote 3rd party panels, such as Door Entry Phones. Supplied complete with a custom machined perspex front panel for increased aesthetic appeal. Suitable for both internal and external installations	High Performance Heavy Duty Proximity Reading Head. Designed for both modern office environments and vulnerable locations requiring increased protection. Suitable for both internal and external installations
Product Specification	Transmit frequency 132kHz, Receive frequency 66kHz. 64 data bits, read time typically 400ms. 3 separate LEDs & onboard Sounder (configurable internal/external control). High impact polycarbonate outer casing, fully potted electronics	Transmit frequency 132kHz, Receive frequency 66kHz. 64 data bits, read time typically 400ms. 3 separate LEDs & onboard Sounder (internal/external control). High impact polycarbonate outer casing, fully potted electronics with stainless steel surround
Dimensions H x W x D (mm)	68 x 73 x 13.5	120 x 100 x 18
Temperature	-30 to 50°C	-30 to 50°C
Environmental	IP55	IP55
Electrical	10.6 - 32Vdc, 100mA	10.6 - 32Vdc, 100mA
Reading Range	25cm with Active 928 Card, 7cm with Passive 968 Card	25cm with Active 928 Card, 8cm with Passive 968 Card
Reading Range Limitations	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%
Price £ R.R.P.	116.00	116.00

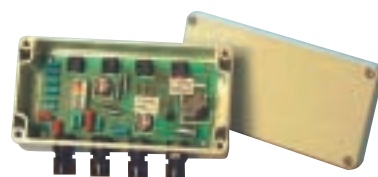
Granta Hands-Free Reading Heads

Model No.	HF100	HFG100
		
General	Description High Performance Hands-Free Reading Head offering unrivalled reading range using Cotag® Active Technology. Easy to install, slim, modern design to compliment all working environments. Suitable for internal use only	Hands-Free 'Glass' Reading Head. 300mm x 300mm, suitable for screening with corporate logo. Supplied with 270 Loop Coupler as interface
Product Specification	Transmit Frequency 132kHz, Receive Frequency 66kHz. 64 data bits, read time typically 400ms, 800ms when noise rejecting AVI mode selected, battery conservation routines. ABS Base, Clip on ABS Front Cover. 3 separate LEDs & onboard Sounder (internal/external control)	Transmit Frequency 132kHz, Receive Frequency 66kHz. Laminated Glass Reading Head. Supplied with a separate 270 Loop coupler. Impact-resistant polystyrene base and clip-on top cover (270). Weather resistant (270 not suitable for burial). Simple installation
Dimensions H x W x D (mm)	265 x 220 x 29.3	300 x 300 x 9 (excludes fixings)
Temperature	-40 to 70°C	-40 to 70°C
Environmental	IP54	IP64 (excludes 270 Loop Coupler)
Electrical	12Vdc, 350mA	12Vdc, 350mA
Reading Range	100cm with Active 928 Card 30cm with Passive 968 Card	80cm typical with Active 928 Card or 25cm with 968 Passive Card
Reading Range Limitations	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%
Price £ R.R.P.	116.00	1,369.00

Reader and Card Technology

Granta Hands-Free Reading Heads

Model No.	HFG100E	270
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General Description	Hands-Free 'Glass' Reading Head. 1000mm x 300mm. Provides Hands-Free performance regardless of where the card or tag is carried (belt or chain), suitable for screening with corporate logo. Supplied with 270 Loop Coupler as interface	Loop Coupler. Features Cotag® Technology. Provides, by a buried loop in the ground or round a door, a read range of up to 2 metres. Use only Active cards & tags.
Product Specification	Transmit Frequency 132kHz, Receive Frequency 66kHz. Laminated Glass Reading Head. Supplied with a separate 270 Loop coupler. Impact-resistant polystyrene base and clip-on top cover (270). Weather resistant (270 not suitable for burial). Simple installation	Transmit Frequency 132kHz, Receive Frequency 66kHz. 64 data bits, read time typically 400ms, 800ms when noise rejecting AVI mode selected, battery conservation routines. Impact-resistant polystyrene base and clip-on top cover. Integrated Loop Reader inside one enclosure. TX & RX status LEDs and onboard sounder. Configurable onboard relay
Dimensions H x W x D (mm)	1000 x 300 x 9 (excludes fixings)	195 x 110 x 70
Temperature	-40 to 70°C	-40 to 60°C
Environmental	IP64 (excludes 270 Loop Coupler)	IP54
Electrical	12Vdc, 350mA	12Vdc, 350mA
Reading Range	80cm typical with Active 928 Card or 25cm with 968 Passive Card	2 metre typical with Active 928 Card or - 970 Vehicle Tag
Reading Range Limitations	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can reduce range by up to 25%	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can greatly reduce the reading range – contact Technical Services for further advice
Price £ R.R.P.	1,615.00	370.00

Granta Smart Card Readers

Model No.	SC7	SC7P	SC500	SC500P
				
General Description	Low Cost Smart Card Reader suitable for use with from Mifare® Smart Cards. Reads CHIP serial number only	Low Cost Smart Card Reader with Keypad suitable for use with from Mifare® Smart Cards. Reads CHIP serial number only	Smart Card Reader suitable for use with from Mifare® Smart Cards. Reads CHIP serial number or a sector in the MAD	Smart Card Reader with Keypad suitable for use with from Mifare® Smart Cards. Reads CHIP serial number or a sector in the MAD
Product Specification	Reads the chip serial number from Mifare® cards and provides a Wiegand or Clock & Data output.	Reads the chip serial number from Mifare® cards and provides a Wiegand or Clock & Data output.	Reads the chip serial number from Mifare® cards and provides a Wiegand or Clock & Data output or can read a sector in the MAD	Reads the chip serial number from Mifare® cards and provides a Wiegand or Clock & Data output or read a sector from the MAD
Dimensions H x W x D (mm)	110 x 44 x 24	110 x 44 x 24	110 x 44 x 24	110 x 44 x 24
Temperature	-40 to 55°C	-40 to 55°C	-40 to 55°C	-40 to 55°C
Environmental	IP67	IP67	IP67	IP67
Electrical	10 - 30Vdc, 200mA	10 - 30Vdc, 200mA	10 - 30Vdc, 200mA	10 - 30Vdc, 200mA
Reading Range	70mm with SC558 card	70mm with SC558 card	70mm with SC558 card	70mm with SC558 card
Price £ R.R.P.	125.00	295.00	215.00	345.00

Reader and Card Technology

Granta Magnetic Stripe Readers and Keypads

Model No.	BC-16	M-43
		
General Description	Magnetic Stripe Card-only Reader. For uneven surfaces use the mounting plate. Suitable for external or internal use	Keypad only. May only be used in parallel with Proximity or Hands-Free Reading Head.
Product Specification	Magnetic Stripe Card Reader, tough metal construction, standard clock/data output, waterproof, reading head rated at 1,000,000 swipes	Keypad to be used in conjunction with Reading Head. Cast metal housing, tamper switch fitted, back-lit keypad
Dimensions H x W x D (mm)	89 x 34 x 34	140 x 80 x 40
Temperature	-20 to 70°C	-35 to 50°C
Environmental	IPX7	IP54
Electrical	12Vdc, 60mA	8 to 40Vdc, 50mA
Reading Range	N/A	N/A
Reading Range Limitations	N/A	N/A
Price £ R.R.P.	166.00	145.00

Granta Reader Accessories

Model No.	33-110	ID100	MOUNTING
			
General Description	Desk Stand for Enrolment Reader , suitable only for use with a PR100 Reading Head (not included)	Remote Indicator. Used to provide indication when a loop system is installed	Mounting Kit for BC-16 when mounted on uneven surfaces
Price £ R.R.P.	25.00	42.00	28.00

Model No.	BB3	SH-2	TX20H
			
General Description	Flush Mounting Kit for M-43 Keypad	Rain Hood for M-43 Keypad	Security Driver Bit for HD500-2-AB (RESISTORX)
Price £ R.R.P.	42.00	43.00	5.50

Model No.	4922	4988
		
General Description	Dual PINpad Data Adaptor (DPDA). Add-on unit for 4322 or 4422 Reader Module. Enables direct connection of two M-43 Keypads or row and column Keypads interfaced to a 4988 PINpad Data Converter	PINpad Data Converter (PDC). Enables connection of a single industry standard 4 x 3 row and column Keypad to a 4922 DPDA
Price £ R.R.P.	105.00	75.00

Reader and Card Technology

Granta Cards and Tags

Model No.	968	961	958-102	958-101
				
General Description	Passive clamshell card. Cost effective Passive card solution. Up to 30cm read range with Hands-Free Reader, 12cm with Proximity Reader	Passive keyring tag. Tough polycarbonate case. Up to 25cm read range with Hands-Free Reader, 10cm with Proximity Reader	Passive ISO laminated card. Ideal for Photo ID applications, can be custom printed both sides. Up to 30cm read range with Hands-Free Reader, 12cm with Proximity Reader	Passive ISO laminated card with IS7811/2 Magnetic Stripe. Ideal for Photo ID applications, can be custom printed both sides. Up to 30cm read range with Hands-Free Reader, 12cm with Proximity Reader
Price £ R.R.P.	2.65	3.70	4.55	4.89

Model No.	958-104	928	928-Clear	928-Red
				
General Description	Passive ISO laminated card with 3M5203 Magnetic Stripe. Ideal for Photo ID applications, can be custom printed both sides. Up to 30cm read range with Hands-Free Reading Head, 12cm with Proximity Reading Head	Active clamshell card Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reader, 30cm with Proximity Reader	Clear Active clamshell card. Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reader, 30cm with Proximity Reader	Red Active clamshell card Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reader, 30cm with Proximity Reader
Price £ R.R.P.	4.99	8.99	9.35	9.35

Reader and Card Technology

Granta Cards and Tags

Model No.	928-Green	928-Purple	928-Blue	911
				
General Description	Green Active clamshell card Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reader, 30cm with Proximity Reader	Purple Active clamshell card Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reader, 30cm with Proximity Reader	Blue Active clamshell card Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reader, 30cm with Proximity Reader	Active keyring tag. Featuring Cotag® Active Technology. Tough polycarbonate case. Up to 75cm read range with Hands-Free Reader, 25cm with Proximity Reader
Price £ R.R.P.	9.35	9.35	9.35	11.65

Model No.	922	970	IB-1	SC558
				
General Description	Test card – used to give an indication of the reading field from a Reading Head or Loop	Active vehicle tag. Featuring Cotag® Active Technology. Used with Loop Technology Reader, attaches to underside of vehicle	Magnetic Stripe Card. Factory encoded, supplied sequentially	Contactless Smart Card using the Mifare® chipset. Manufactured from laminated PVC (Satin white finish). Ideal for dye-sublimation printing. Chip power supply and data are carried by the RF signal (13.56 MHZ)
Price £ R.R.P.	21.00	28.65	1.05	3.45

Reader and Card Technology

Granta Card Programmers

Model No.

633-2-V1



General Description

Cotag® Programmer allows you to meet your customers individual requirements for programming Active and Passive Cotag® Technology cards and tags. It allows programming of small batches or individual cards and can be used to create configuration cards to set up any Bewator Readers. The programmer can be configured for an end user. This allows your customers to have local control over card issuing. Requires a Bo/217-1 12V PSU or Bo2/218-1 12V PSU

Dimensions

H x W x D (mm)

230 x 220 x 80

Temperature

-10 to 40 °C

Environmental

Internal use only

Price £ R.R.P.

2,110.00

Model No.

SM565-V1

SM568-V1



General Description

Contactless Smart Card Programmer for resellers. Comes complete with comms cable, PSU & Bewator Granta/standalone Programmer Management Software. Allows complete control over end user programming needs. Reseller only model with increased functionality. Order number, card number, site code tracking facility. Distributor Coded

Contactless Smart Card Programmer for end users. Comes complete with comms cable, PSU & Bewator Granta/standalone Programmer Management Software. Allows end users to program and issue their own cards. End user only model with restricted functionality. Distributor Coded

Dimensions

H x W x D (mm)

120 x 120 x 28.5

120 x 120 x 28.5

Environmental

Internal use only

Internal use only

Price £ R.R.P.

1,589.00

1,050.00

Granta Custom Card Programming & Printing

Factory Programming of Cards & Tags

Factory programming of 928 and 968 cards can be carried out at manufacturing stage.

Allow four weeks lead time

Please stipulate card or tag type that requires programming at point of order, please contact our Technical Services Team to confirm programming details.

Price £ R.R.P.	Factory Program Set Up (per order):	60.00
	Factory Programming per Card / Tag:	1.00

Custom Printing of Cards & Tags

Custom printing of Custom Logo for 928 (not clear or coloured versions) and 968 cards can be carried out at manufacturing stage, minimum order quantity 1,000

Allow four weeks lead time

Price £ R.R.P.	Artwork Generation or Revision for New or altered Custom Logo per side:	750.00
	Factory Set Up per Card:	60.00
	Factory Printing per Card:	0.45

Side Slot

A side slot is available on 928 cards as a chargeable option. Please specify when ordering

Allow four weeks lead time

For more information please contact our Technical Services Team or Product Specifications ANo29, ANo31 and ANo45

Price £ R.R.P.	Side Slot per 928 Card:	0.55
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Is Communication paramount for your business?

Being able to block entry of unauthorized persons is a requirement in most properties and companies. At the same time, visitors and employees should be able to enter easily and conveniently. Bewator's range of Door Entry Phone Systems consists of three products: Bewatel, Bewacom and Telecode. Together they cover any businesses requirements.

For Further information please contact us on 0871 386 0835



BEWATOR

A Siemens Business

Standalone Solutions and Door Entry Phones

Bewator produces a comprehensive range of Standalone Solutions and Door Entry Phones; ranging from Entro Lite, the new Euro Codoor, our best selling Codelock range and Door Entry Phones to suite almost all applications

Bewator's Standalone Solutions and Door Entry Phones are ideal for a small business or premises that require simple but effective security



Standalone Solutions
and Door Entry
Phones

Entro Lite	91
Controllers	93
Readers	94
Cards & Tags	96
Networking Interfaces	97
Compact Codelocks	99
Euro Codoor & Fingerprint Codoor	103
Codelocks	101
Codelock Kits	103
Codelock Accessories	104
Compact Cardreaders	105
Cardreaders	106
Cardreader Kits & Accessories	107
Cards & Tags	108
Door Entry Phone Systems	109
Bewatel	110
Bewacom	112
Telecode	114
Accessories	115

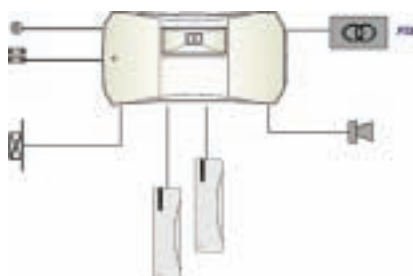
Introducing Entro Lite

Let it grow with you



Entro Lite is a new Access Control system from Bewator. It has been designed for easy of use, to be cost effective and flexible in how you choose to install it. The new DC800 Door Controllers can be installed as Standalone, one door means one controller and can utilise any of Bewator's suite of Readers, or can be networked together using a simple USB Interface and new Entro Lite software and then at any time be upgraded to Bewator's powerful Entro 5 access control system without any hardware redundancy

Standalone



HOW TO QUOTE ENTRO LITE STANDALONE

1. One door means 1 x DC800 Door Controller
2. Choose the style of Reader required eg 1 x PR500-AB, if Antipassback is required you can use 2 Readers
3. Choose your PSU, either 1 x TA12DCR or 1 x BA112 and 1 x B125 if a back-up battery is required
eg for 1 Door - 1 x DC800, 1 x PR500-AB, 1 x TA12DCR
for 2 Doors - 2 x DC800s, 2 x PR500-ABs, 2 x TA12DCRs
for 3 Doors - 3 x DC800s, 3 x PR500-ABs, 3 x TA12DCRs
4. Choose your card type – Passive cards give lower read ranges, whilst Active cards will give you greater read ranges (up to 1m if you use a HF500-Entro Reader)
5. Finally add the additional door accessories eg locks, exit buttons and breakglasses

If you want to network the Door Controllers (max. 8 doors) and use a PC, see the other side of this document. And if you want to expand the system further, then the system can be UPGRADED to Entro 5 WITHOUT ANY HARDWARE REDUNDANCY!

Networked Using USB-RIF/2



HOW TO QUOTE NETWORKED ENTRO LITE

1. One door means 1 x DC800 Door Controller (max. 8 doors can be networked)
2. Select 1 x USB-RIF/2 per system (this provides you with a RS485 – USB Interface and Entro Lite software)
3. Choose the style of Reader required eg 1 x PR500-AB, if Antipassback is required you can use 2 Readers
4. Choose your PSU, either 1 x TA12DCR or 1 x BA112 and 1 x B125 if a back-up battery is required
eg for 1 Door - 1 x DC800, 1x USB-RIF/2, 1 x PR500-AB, 1 x TA12DCR
for 2 Doors - 2 x DC800s, 1 x USB-RIF/2, 2 x PR500-ABs, 2 x TA12DCRs
for 3 Doors - 3 x DC800s, 1 x USB-RIF/2, 3 x PR500-ABs, 3 x TA12DCRs
5. Choose your card type – Passive cards give lower read ranges, whilst Active cards will give you greater read ranges (up to 1metre if you use a HF500-Entro Reader)
6. Finally add the additional door accessories eg locks, exit buttons and Breakglasses

If you want to expand the system beyond 8 doors or require extra functionality, then the system can be UPGRADED to Entro 5 WITHOUT ANY HARDWARE REDUNDANCY!

Entro Lite is a new Access Control System from Bewator. It has been designed for ease of use, to be cost effective and flexible in how you choose to install it.

The new DC800 Door Controllers can be installed as Standalone, one door means one controller and can utilise any of Bewator's suite of Readers, or can be networked together using a simple USB Interface and new Entro Lite software and then at any time be upgraded to Bewator's powerful Entro 5 access control system without any hardware redundancy.

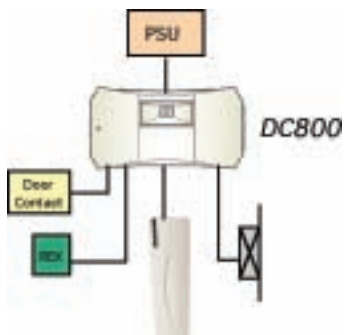


Standalone Solutions
and Door Entry
Phones

- Simple to quote and easy to install – one door means one controller, all you need to do is add a Reader
- Standalone or networked
- Works with the full suite of Bewator Readers
- Simple, but powerful Entro Lite software
- Fully upgradeable to Entro 5, without any hardware redundancy

Entro Lite

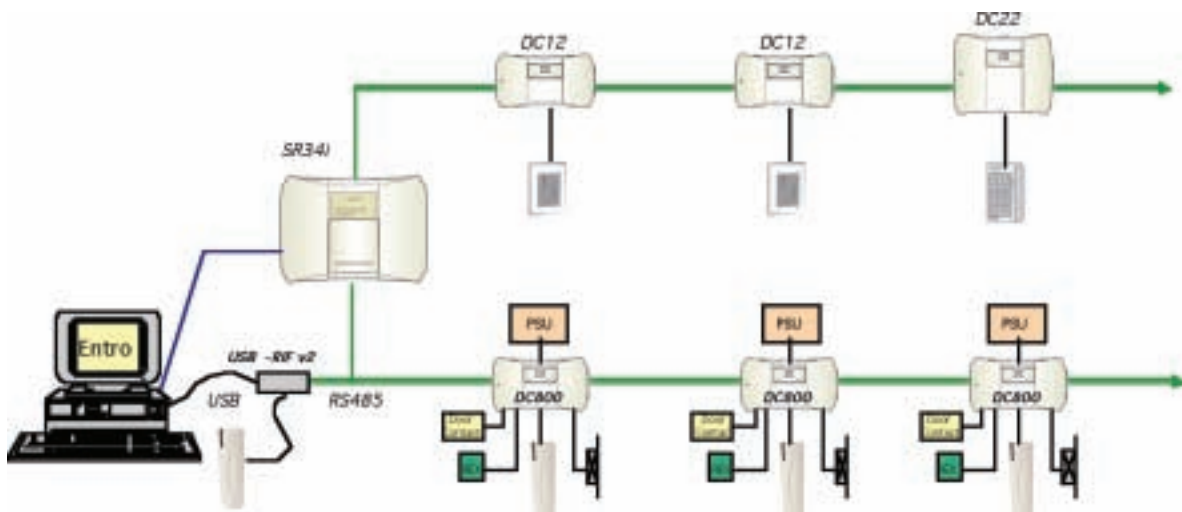
System Configurations



The DC800 Door Controller used in Standalone mode, controlling all actions at the required door



DC800 Door Controllers networked together using Entro Lite software and the USB-RIF/2 Interface



Entro Lite networked system upgraded to Entro 5 without any hardware redundancy

Door Controller

Model No.	DC800
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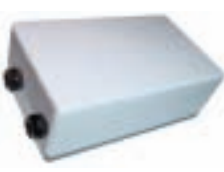
General Description	Entro Lite Controller. Can be used as either a Standalone Door Controller, networked (maximum of 8 Controllers) using Entro Lite software and then can be upgraded without any hardware redundancy to Entro 5. Can control any Reader from Bewator's comprehensive range and Clock & Data, Wiegand 26bit/32bit and 8bit burst
Standalone	Controller for one door, 1000 cards/tags, RS485 interface, 1000 event buffer, Full door control, Warning/Alert relay output, Antipassback (In and Out Readers), Bank Lobby Function (common card), Programmed via internal keypad, replaces BC-640-KP Single Standalone Door Controller. Can control any Reader from Bewator's comprehensive range and Clock & Data, Wiegand 26bit/32bit and 8bit burst
Networked	Network up to 8 DC800 Door Controllers together using Entro Lite software and USB-RIF/2 USB Interface (supplied together)
Entro 5 Upgrade	Upgradeable to Entro 5 providing the full functionality of Bewator's award winning PC software (see page 19 for Entro 5) without any hardware redundancy
Dimensions H x W x D (mm)	182 x 248 x 66
Temperature	0 to 50 °C
Environmental	Internal use only
Electrical	8 - 40Vdc 8 - 30 Vac, 100mA
Housing	Wall mounted composite housing
Cable Length	Maximum 1000 metres (RS485)
Price £ R.R.P.	149.00

Entro Lite

Readers

Model No.	PR500-AB	SP500-AB	HD500-2-AB	PM500-AB
				
General Description	Proximity Reader, mullion mount. Designed to suit door architraves and compliment all working environments	Switch Plate Proximity Reader. Designed to fit most single gang back-boxes	Heavy Duty Proximity Reader. Designed for both modern office environments and vulnerable locations	Panel Mount Proximity Reader. Designed to fit most remote 3rd party panels, such as Door Entry Phones
Price £ R.R.P.	160.00	160.00	175.00	160.00

Model No.	BC-43Prox	HF500-Entro	BC-5511	HFG500-AB
				
General Description	Proximity Reader with built-in keypad Offers the possibility of combined access control with both a card and a PIN	Hands-Free Reader. Offering unrivalled reading range using Cotag® Active Technology, internal use only	Hands-Free Reader Pack. Offering unrivalled reading range using Cotag® Active Technology	Hands-Free 'Glass' Reader. 300mm x 300mm, suitable for screening with corporate logo
Price £ R.R.P.	287.00	349.00	405.00	1,535.00

Model No.	HFG500E-AB	BC-5270	BC-5516
			
General Description	Hands-Free 'Glass' Reader. 300mm x 1000mm, suitable for screening with corporate logo	Integrated Loop Reader Pack. Features Cotag® Technology. Provides, by a buried loop in the ground or round a door	Loop Reader Pack. Features Cotag® Technology. Provides, by a buried loop in the ground or round a door, suitable for AVI
Price £ R.R.P.	1,765.00	635.00	635.00

Readers

Model No.	SC7	SC7P	SC500
			
General Description	Smart Card Reader suitable for use with from Mifare® Smart Cards. Reads CHIP serial number only	Smart Card Reader with built in Keypad suitable for use with from Mifare® Smart Cards. Reads CHIP serial number only	Smart Card Reader suitable for use with from Mifare® Smart Cards. Reads CHIP serial number and a sector of the MAD
Price £ R.R.P.	125.00	295.00	215.00

Model No.	SC500P	M-43	BC-16
			
General Description	Smart Card Reader with built in Keypad suitable for use with from Mifare® Smart Cards. Reads CHIP serial number and a sector of the MAD	Keypad only	Magnetic Stripe Card-only Reader. For uneven surfaces use the mounting plate
Price £ R.R.P.	345.00	145.00	166.00

Model No.	BC-43	TG-PROX
		
General Description	Magnetic Stripe Card Reader with built-in keypad. Built-in keypad offers the possibility of combined access control with both a card and a PIN for higher security	Enrolment Reader pre-mounted on a desk stand, requires USB-RIF/2 for connection
Price £ R.R.P.	203.00	99.00

See page 67 for full details on Bewator's Reader Technology

Entro Lite

Cards and Tags

Model No.	IB-968	IB-961	IB-958	IB-958M
				
General Description	Passive encoded clamshell card	Passive encoded keyring tag	Passive encoded ISO laminated card	Passive encoded ISO laminated card with IS7811/2 Magnetic Stripe
Price £ R.R.P.	2.65	3.70	4.55	4.89

Model No.	IB-928	IB-928-Clear	IB-928-Red	IB-928-Green
				
General Description	Active encoded clamshell card	Clear Active encoded clamshell card	Red Active encoded clamshell card	Green Active encoded clamshell card
Price £ R.R.P.	8.99	9.35	9.35	9.35

Model No.	IB-928-Purple	IB-928-Blue	IB-911	IB-970
				
General Description	Purple Active encoded clamshell card	Blue Active encoded clamshell card	Active encoded keyring tag	Active encoded vehicle tag
Price £ R.R.P.	9.35	9.35	11.65	28.65

Model No.	IB-1	SC558
		
General Description	Magnetic Stripe Card	Mifare® Smart Card
Price £ R.R.P.	1.05	3.45

See page 75 for full details on Bewator's Card Technology

Tel: 0871 386 0810

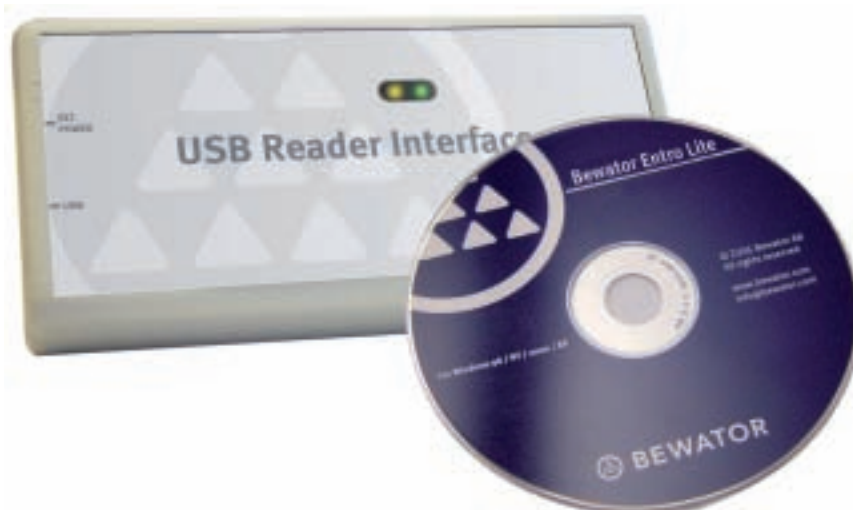
E-mail: sales.support@bewator.co.uk

Web: www.bewator.co.uk

Networking Interfaces

Model No.

USB-RIF/2



Standalone Solutions
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Phones

General Description	Entro Lite Software and RS485 to USB Interface required when connecting a network of Entro Lite DC800 Door Controllers (maximum 8) to a PC	
Entro Lite Software Features	Description:	Software for Entro Lite DC800 Door Controllers, allowing up to eight Standalone Door Controllers to be networked together via RS485 and a USB Interface. Fully upgradeable to Entro 5 without any hardware redundancy
	Door Capacity:	8
	Code Capacity:	8
	Card Capacity:	1000
	Time Schedules:	10 + one 24 hours a day
	Time Zones:	2 time interval per day + one interval (in each time schedule) for half days
	Security Levels:	Unlocked, Group code, Card only, Card+PIN, Door locked plus Toggle.
	PC System Requirements:	USB port for connection of the access control system CD drive Printer port (parallel) Windows XP or Windows 2000
	Opening time:	1-99 seconds
	Door Held Warning Time:	1-99 seconds
Price £ R.R.P.	125.00	



The original Codelock

Bewator produces the best selling range of Codelocks in the world. Security Installers, locksmiths and electrical contractors on six continents make Bewator Codelocks their natural choice for offices and apartment blocks. By specifying Bewator Codelocks, commercial and private property is protected and personal safety is increased.

For Further information please contact us on 0871 386 0835



BEWATOR

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Bewator produces the best selling range of Codelocks in the world. Security installers, locksmiths and electrical contractors on six continents make Bewator Codelocks their natural choice. Bewator Codelocks ensure that external and internal doors are opened and locked without resorting to keys which can easily be lost, copied or stolen.

By specifying Bewator Codelocks, commercial and private property is protected and personal safety is increased



- Enhanced Range, now includes the new Euro Codoor and Fingerprint Euro Codoor
- Improved features
- Simple installation
- Rugged and reliable

Compact Codelocks

Euro Codoor

Model No.

CD4000



General Description

Euro Codoor - is a battery-powered Codelock that fits directly on the door inside the building. The Euro Codoor is a self contained unit and such there is no need to run any cables or make changes to the door or frame.
The Euro Codoor is suitable for the majority of internal doors which require a locking door handle e.g. offices, storerooms, conference rooms and staffroom

Features

Stand-alone unit
Programmable from keypad
9 four digits code
Possible to set the door unlocked
Opening life: 150,000 opening (lithium batteries) 50,000 opening (alkaline batteries) or one year, whichever comes first
Not supplied with handle or lock assembly, see CD4000-LOCKSET and CD4000-HANDLESET on the Codelock Accessories page

Dimensions H x W x D (mm)

255 x 70 x 54 (excluding handle)

Temperature

0 to 50°C

Environmental

Internal use only

Electrical

Battery driven. Two 9 Volt 6LR61 batteries (not included)

Housing

Cast metal, stainless steel buttons

Price £ R.R.P.

196.00

Fingerprint Euro Codoor

Model No.

FP4000



Standalone Solutions
and Door Entry
Phones

General Description

Fingerprint Euro Codoor is a complete fingerprint Reader suitable for fitting to a single door, incorporates an electronic fingerprint Reader locking device and a power unit in the same housing. FP4000 offers the use of up to 32 different fingerprint templates and up to four 4-digit codes. These can be used in parallel with fingerprint reading. FP4000 may be fitted on most doors using Euro Standard lockcase. When FP4000 is fitted; the outside door handle is disengaged and may be pressed down without opening the door. To open the door a finger has to be placed on the Reader (or a code is entered). The handle on the inside of the door is not affected by FP4000, and works normally for people leaving the premises.

Features

Stand-alone unit
Programmable from keypad
32 fingerprint templates
9 four digits code
Possible to set the door unlocked
Opening life: 150,000 opening (lithium batteries) 50,000 opening (alkaline batteries) or one year, whichever comes first
Not supplied with handle or lock assembly, see CD4000-LOCKSET and CD4000-HANDLESET on the Codelock Accessories page

Dimensions H x W x D (mm)

270 x 70 x 54 (excluding handle)

Temperature

0 to 50°C

Environmental

Internal use only

Electrical

Battery driven. Two 9 Volt 6LR61 batteries (not included)

Housing

Cast metal

Price £ R.R.P.

645.00

Compact Codelocks

Compact Codelocks

Model No.

K-42

K-44 DUO



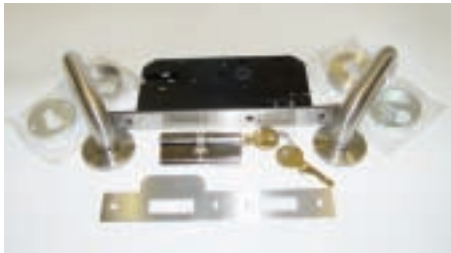
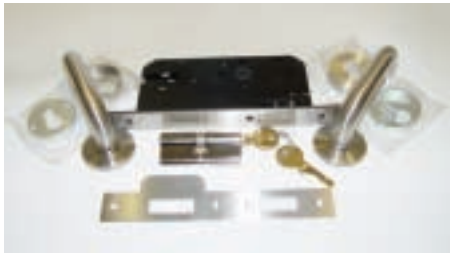
General Description	Codelock with two code combinations , internal or external use. Stainless steel vandal resistant keys. Surface mount, back-lit keypad	Codelock with four code combinations , can also be set to advanced mode providing 30 codes (20 x 4-digits and 10 x 6-digits), 2 relay outputs, internal or external use. Surface mount, back-lit keypad
Features	Two four digit codes External contact for each code Programmed by internal links 1 – 30 seconds lock relay operating time External contact One voltage-free contact Stainless steel security lock 2 amp 30Vdc max relay loading	Twenty four digit codes and 10 six digit codes Programmed by keypad 1 – 99 seconds lock relay operating time External contacts for Group 1 & 2 codes Two voltage free contacts 2 amp 30Vdc max relay loading Duress supported
Dimensions H x W x D (mm)	140 x 80 x 40	140 x 80 x 40
Temperature	-30 to 55°C	-30 to 55°C
Environmental	IP55	IP55
Electrical	12-24Vdc or 18-24Vac, 35mA	12-24Vdc or 18-24Vac, 75mA
Housing	Cast metal, stainless steel buttons	Cast metal, stainless steel buttons
Price £ R.R.P.	129.00	135.00

Codelock Kits

Model No.	Kit 1	Kit 2
		
General Description	K-42 Codelock Kit consists of K-42 Codelock, TA12DCR power supply unit and MK-814 exit button	K-42 Codelock Kit consists of K-42 Codelock, TA12DCR power supply unit and door release (fail-secure)
Price £ R.R.P.	165.00	182.00
Model No.	Kit 3	Kit 4
		
General Description	K-42 Codelock Kit consists of K-42 Codelock, TA12DCR power supply unit and door release (fail-safe)	K-44 Duo Codelock Kit consists of K-44 Duo Codelock, TA12DCR power supply unit and MK-814 exit button
Price £ R.R.P.	209.00	169.00
Model No.	Kit 5	Kit 6
		
General Description	K-44 Duo Codelock Kit consists of K-42 Codelock, TA12DCR power supply unit and door release (fail-safe)	K-44 Duo Codelock Kit consists of K-42 Codelock, TA12DCR power supply unit and door release (fail-secure)
Price £ R.R.P.	212.00	214.00

Compact Codelocks

Codelock Accessories

Model No.	CD4000-LOCKSET	CD4000-HANDLESET
		
General Description	CD4000 / FP4000 Euro Codoor Lock Set comprising: 1 x 19mm return to door stainless steel handle 1 x 10mm stainless steel blanking plate 2 x 110mm screws 1 x Union 2C2 Sashlock Case 1 x 71mm Euro double cylinder includes 3 x keys	CD4000 / FP4000 Euro Codoor Handle Set comprising: 1 x 19mm return to door stainless steel handle 1 x 10mm stainless steel blanking plate 2 x 110mm screws
Price £ R.R.P.	75.00	30.00

Model No.	BB3	SH-2	SK-5
			
General Description	Flush Mounting Kit for K-42, K-44 DUO and K-12 Codelocks	Rain Hood K-42, K-44 DUO and K-12 Codelocks	Security Relay , prevents illegal entry from keypad (K-44 DUO only)
Price £ R.R.P.	42.00	43.00	53.00

Model No.	BC400-LK	BC400-K-xxx	CONTROL-BOX-LOCK	CONTROL-BOX-KEY
				
General Description	Replacement Key Barrel for all Codelocks, Cardreaders and Door Entry Phones	Replacement Key for all Codelocks, Cardreaders and Door Entry Phones – please state 3 digit key number	Replacement Key Barrel for SR32, SR32i, DC-11, DC-21 and Telecode Control Boxes	Replacement Key for SR32, SR32i, DC-11, DC-21 and Telecode Control Boxes
Price £ R.R.P.	33.00	14.00	33.00	14.00

Bewator Access Control Systems provide a secure method of protecting doors, whilst causing as little restriction as possible on freedom of movement. As part of this 'free-flowing' security, Bewator has produced a range of Compact Cardreaders. These are available in two different technologies, Magnetic Stripe or Proximity. Bewator's Compact Cardreaders are easy to install and provide a high level of security whilst maximising freedom of movement within a business environment



- Effective security whilst allowing freedom of movement
- Choose from Magnetic Stripe or Proximity technology
- Combined PIN number and card provides greater security and user flexibility
- Tough high quality robust construction

Compact Cardreaders

Compact Cardreaders

Model No.	BC-402	BC-615	BC-615Prox
			
General Description	Magnetic Stripe Card-only Reader with minimum 200 card memory. Internal or external use. Uses standard IB-1 or CR80M cards.	Magnetic Stripe Cardreader with back-lit keypad for 1000 cards. 15 combined time zones. Cast metal case and cam lock, surface mount. Can be networked using Bewator Entro (one CR1 must be used per Cardreader)	Proximity Cardreader with back-lit keypad for 1000 cards. 15 combined time zones. Cast metal case and cam lock, surface mount. Can be networked using Bewator Entro (one CR1 must be used per Cardreader). Range approx. 3cm with Passive cards and 10cm with Active cards
Features	Requires IB-402 Card Programming Pack for each Reader or set of Readers using the same user cards External contact for remote door release 200 card capacity	External contact for remote door release 1000 card capacity Security Levels – open, common code, card, card and PIN, no access and toggle	External contact for remote door release 1000 card capacity Security Levels – open, common code, card, card and PIN, no access and toggle
Dimensions H x W x D (mm)	89 x 34 x 34	160 x 160 x 47	160 x 110 x 47
Temperature	-20 to 60°C	-35 to 50°C	-30 to 50°C
Environmental	IP55	IP54	IP54
Electrical	12Vdc, 80mA	12-24Vdc / Vac, 100mA	112-24Vdc / Vac, 100mA
Reading Range	Zinc casting lacquered metallic paint furnish	Cast metal, stainless steel buttons	Cast metal, stainless steel buttons
Reading Range Limitations	N/A	N/A	10cm with IB-928 3cm with IB-968 Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise
Price £ R.R.P.	212.00	289.00	310.00

Compact Cardreaders Kits and Accessories

Model No.	Kit 7	Kit 10	Kit 15
			
General Description	BC-402 Cardreader Kit consists of BC-402 Cardreader, TA12DCR power supply unit, IB-402 card pack and 50 x IB-1 cards	BC-615 Magnetic Stripe Cardreader Kit consists of BC-615 Magnetic Stripe Cardreader, TA12DCR power supply unit and 50 x IB-1 cards	BC-615Prox Cardreader Kit consists of BC-615Prox Proximity Cardreader, TA12DCR power supply unit, 50 x IB-968 cards, WG2001-SG break glass, fail safe lock release and MK-814 exit button
Price £ R.R.P.	328.00	345.00	517.00

Model No.	IB-402	MOUNTING	BB4
			
General Description	Card Programming Pack for BC-402. Contains 200 Shadow Cards, Master Card and Fail/Open & Fail/Closed Card. Uses standard IB-1 or CR80M for user cards	Mounting Plate for BC-402 Cardreader for uneven surfaces	Flush Mounting Kit for BC-615 and BC-615Prox Cardreaders
Price £ R.R.P.	56.00	28.00	46.00

Model No.	SH-4	CR-1
		
General Description	Rain Hood for BC-615 and BC-615Prox Cardreaders	Reader Interface for BC-615 Compact Cardreader when being networked with Bewator Entro (One per Reader), max 8 per Segment Controller
Price £ R.R.P.	43.00	65.00

Entro Lite

Cards and Tags

Model No.	IB-968	IB-961	IB-958	IB-958M
				
General Description	Passive encoded clamshell card	Passive encoded keyring tag	Passive encoded ISO laminated card	Passive encoded ISO laminated card with IS7811/2 Magnetic Stripe
Price £ R.R.P.	2.65	3.70	4.55	4.89
Model No.	IB-928	IB-928-Clear	IB-928-Red	IB-928-Green
				
General Description	Active encoded clamshell card	Clear Active encoded clamshell card	Red Active encoded clamshell card	Green Active encoded clamshell card
Price £ R.R.P.	8.99	9.35	9.35	9.35
Model No.	IB-928-Purple	IB-928-Blue	IB-911	IB-970
				
General Description	Purple Active encoded clamshell card	Blue Active encoded clamshell card	Active encoded keyring tag	Magnetic Stripe Card
Price £ R.R.P.	9.35	9.35	11.65	1.05

See page 75 for full details on Bewator's Card Technology

It is a natural requirement for most businesses to secure their premises, but they must also have a simple and convenient method of allowing access to visitors and employees. The simplest and most convenient way of solving this problem is to install a modern Door Entry Phone System. Bewator has a range covering three different solutions. Bewatel provides a hardwired solution, Bewacom utilises a company's existing internal switchboard and Telecode allows access to remote doors via a Public Switched Telephone Network. Between them they cover every requirement, be it large, small, commercial or residential



- Bewatel a hardwired Door Entry Phone System, ideal for the small business
- Bewacom a sophisticated Door Entry Phone System that connects directly to a company's internal PABX switchboard
- Telecode is a patented BAPT approved Door Entry Phone System that connects directly to the public telephone network (PSTN), thus removing the need for expensive wiring

Bewatel Door Entry Phone Systems

Bewatel Door Entry Phones

Model No.	BT-41	BT-44	BTK-41
			
General Description	Door Entry Phone with one call button. Hardwired via six core telephone cable to either V-801 or B-801 handsets. Up to three handsets can be connected in parallel, max 50 metres	Door Entry Phone with four call buttons. Hardwired via six core telephone cable to either V-801 or B-801 handsets. Up to three handsets can be connected in parallel, max 50 metres	Door Entry Phone with one call button and a built in Keypad. Hardwired via six core telephone cable to either V-801 or B-801 handsets. Up to three handsets can be connected in parallel, max 50 metres. Keypad provides 20 x 4-digit codes plus 10 x 6-digit codes
Features	1 – 40 seconds door opening time Voltage free relay contact 2A 28Vdc CCTV relay output	1 – 40 seconds door opening time Voltage free relay contact 2A 28Vdc CCTV relay output	1 – 99 seconds door opening time Voltage free relay contact 2A 28Vdc CCTV relay output
Dimensions H x W x D (mm)	200 x 80 x 40	200 x 80 x 40	200 x 80 x 40
Temperature	-35 to 50°C	-35 to 50°C	-35 to 50°C
Environmental	IP54	IP54	IP54
Electrical	12-24Vdc / Vac, 200mA	12-24Vdc / Vac, 200mA	12-24Vdc / Vac, 200mA
Housing	Cast metal, stainless steel buttons	Cast metal, stainless steel buttons	Cast metal, stainless steel buttons
Price £ R.R.P.	180.00	196.00	297.00

Bewatel Door Entry Phone Systems

Bewatel Door Entry Phones

Model No.	BTVX	V-801	B-801
  			
General Description	Exchange Unit for connecting up to 4 Door Entry Phones to 1 handset via 6 core telephone wire	Wall Mounted Handset. Integrated buzzer and remote opening button. Three handsets can be connected in parallel to a Door Entry Phone, 50 metres max	Desk Mounted Handset. Integrated buzzer and remote opening button. Three handsets can be connected in parallel to a Door Entry Phone, 50 metres max
Dimensions H x W x D (mm)	80 x 200 x 40	220 x 80 x 55	220 x 80 x 55
Temperature	-20 to 60°C	-35 to 50°C	-30 to 50°C
Environmental	Internal use only	Internal use only	Internal use only
Electrical	12Vdc, 60mA	From Door Entry Phone	From Door Entry Phone
Housing	White plastic housing with security lock		
Price £ R.R.P.	305.00	36.00	84.00

Bewacom Door Entry Phone Systems

Bewacom Door Entry Phones

Model No.	BM31	BM3
		
General Description	Door Entry Phone for a company's internal PABX switchboard. 1 call button for connection to a 1 nominated extension. Requires an analogue extension	Door Entry Phone for a company's internal PABX switchboard. Can call any extension on the system. Includes a built in Keypad allowing up to 4 x 4-digit codes. Requires an analogue extension
Features	7 seconds door opening time Voltage free relay contact 2A 28Vdc CCTV relay output	1 - 99 seconds door opening time Voltage free relay contact 2A 28Vdc CCTV relay output
Dimensions H x W x D (mm)	200 x 80 x 40	200 x 80 x 40
Temperature	-35 to 55°C	-35 to 50°C
Environmental	IP54	IP54
Electrical	12-24Vdc / Vac, 200mA	12-24Vdc / Vac, 200mA
Housing	Cast metal, stainless steel buttons	Cast metal, stainless steel buttons
Price £ R.R.P.	334.00	425.00

Telecode Door Entry Phone Systems

Telecode Door Entry Phones

Model No.	Telecode Controllers	
		
General Description	Telecode Controller for 1 to 6 doors and up to 20 to 300 stored telephone numbers. Connects to TP5 Door Entry Phone or M65 Keypad at the door. Easy to programme via integral keypad and display. Could also be remotely programmed with REMO PC-based software	
Features	Telecode is a patented BABT approved Door Entry Phone System that can be connected directly to the public telephone network (PSTN), removing the need for hardwiring of handsets and allows users to open secured doors from their own telephone handsets or via a mobile phone. This makes the system ideal for applications where such hardwiring is either unpractical or too costly, thus providing a simple solution for controlling access through remote doors. Telecode also comes with a built-in Codelock enabling tenants and regular callers to gain access via an assigned code. Variable door opening time from 1 – 999 seconds	
Door Capacity/ Stored Numbers	Variants available: TC-20 – up to 20 stored numbers and 1 door TC-30/2 – up to 30 stored numbers and 2 doors TC-40/4 – up to 40 stored numbers and 4 doors TC-60/5 – up to 60 stored numbers and 5 doors TC-300/6 – up to 300 stored numbers and 6 doors	
Dimensions H x W x D (mm)	140 x 200 x 60	
Temperature	0 to 50°C	
Environmental	Internal use only	
Electrical	24Vac/dc – supplied with 24V Transformer, 250mA	
Housing	Glass reinforced polycarbonate, tamper protected, lockable housing for wall mounting	
Price £ R.R.P.	TC-20 TC-30/2 TC-40/4 TC-60/5 TC-300/6	981.00 1,087.00 1,193.00 1,299.00 1,405.00

Telecode Door Entry Phone Systems

Telecode Door Entry Phones

Model No.	TP-5	M-65	REMO
			
General Description	Door Entry Phone for connection to Telecode Controller. Built in Keypad with 99 x 4-digit codes	Keypad for connection to Telecode Controller, for doors not requiring audio access	Remo Software for remote control of Telecode Controllers.
Features	Voltage free relay contact 1A 28Vdc CCTV relay output	Voltage free relay contact 1A 28Vdc	PC Requirements - Pentium recommended. 16 MB RAM. 20 MB free space on hard disc. Floppy disk drive. VGA colour monitor. Windows 98/2000/XP Modem Requirements - 9600. Auto answer enabled. Ignore DTR. Local echo disabled and Watchdog enabled
Dimensions H x W x D (mm)	200 x 80 x 40	140 x 80 x 36	N/A
Temperature	-35 to 50°C	-35 to 50°C	N/A
Environmental	IP54	IP54	N/A
Electrical	12-24Vdc from Telecode Controller, 200mA	12-24Vdc from Telecode Controller, 200mA	N/A
Housing	Cast metal, stainless steel buttons	Cast metal, stainless steel buttons	N/A
Price £ R.R.P.	267.00	99.00	27.00

Door Entry Phone Accessories

Door Entry Phone Accessories

Model No.	V-801-TC	NT-FLEX
		
General Description	Wall Mounted Handset for direct connection to Telecode Controllers	Metal Nameplate in rugged frame with toughened glass. For use with laser printed sheets (one supplied). Templates for MS Word
Price £ R.R.P.	169.00	105.00

Model No.	BB5	BB3
		
General Description	Flush Mount Kit for Door Entry Phones	Flush Mount Kit for M-65 Keypad
Price £ R.R.P.	42.00	49.00

Model No.	SK-5	SH-2	SH-3
			
General Description	Security Relay , prevents illegal entry from M-65 Keypad	Rain Hood for M-65 Keypad	Rain Hood for Door Entry Phones
Price £ R.R.P.	53.00	43.00	43.00



Saving lives is your daily challenge... let your security be ours

Consider the large number of visitors, patients and staff going through hospital doors every day. Think about the need to run your organisation profitably and smoothly, and to secure staff, vulnerable patients, and expensive medicines. Now imagine security solutions that are future-proof and cost-effective. Think about entrance monitoring, visitor and staff management, asset tracking, and instant alarm response. Envisage CCTV and access control solutions, which can build on your existing IT or security infrastructure, and still leave room for expansions and upgrades.

Caring security by Bewator



BEWATOR

A Siemens Business

Healthcare and Asset Protection Products

Bewator offers a range of products that are specifically designed for Healthcare Applications and Asset Protection.

The combination of our extensive product range with a wide range of applications incorporating the patented Cotag® Hands-Free Active Technology provides total flexibility

Applications Include:

- Wanderer Control
- Infant Monitoring
- Asset Protection



Healthcare & Asset Protection Overview	118
Door Controllers	123
Reader Packs	124
Accessories	125
Cards & Tags	126
Card Programmer	127

Healthcare and Asset Protection Products

Wanderer Control

The Problem

No one will deny the value of people, especially those people who are nearest and dearest to us: Our parents or our Grandparents or our more immediate family. Every year a large number of, generally older, people fall victim to diseases traditionally referred to as 'ageing' diseases. The best known of these is Alzheimer's Disease where the patients spend an increasing proportion of their time confused and unable to recognise normally familiar people. This is distressing to family as the patients become unable to look after themselves and they often have to be admitted to a permanent care home. Alzheimer's Disease patients, during their bouts of confusion, can be prone to wander off without warning and can get lost. In extreme cases they can be involved in accidents which may result in serious injury or death. In some far northern countries a patient who wanders in winter has a high chance of freezing to death in the subzero temperatures.



So what are the solutions?

There are several ways of ensuring a patient does not wander, not all of them are, thankfully, acceptable in today's caring societies. Some years ago a patient prone to wandering may have been physically restrained, some patients may have been kept on high levels of drugs, thereby keeping them in a semi-comatose state.



Today though, this kind of restraint would be considered an abuse of the basic civil rights of the patient in many countries throughout the world (which often results in hospitals and care home refusing to accept wandering patients). Happily, there is an increasingly popular alternative which offers the patient a high level of safety without having to resort to restraint. This method is both humane to the patient, helpful to the care staff and is not an abuse of human rights. Bewator manufactures a 'Wanderer Control' system which allows patients unrestricted movement throughout the hospital or care home but will stop them passing through doors through which they are not allowed.

Wanderer Control

How does this work?

In any hospital or care home the general requirement is for the building to be open and freely accessible to both patients and their relatives. This implies that all doors are unlocked during the day allowing unrestricted access to everyone. It is this environment that makes it so difficult to stop patients from wandering.

Certain doors, typically those leading to the outside, will be designated as 'wanderer' doors, which are the doors that the wanderer patients are not allowed to go through. An inductive loop is placed around these doors, (see diagram), which emits low frequency RF at 132KHz. The loop is attached to the Bewator 5470 Multi-Function Loop Reader.

The patient wearing a uniquely coded Bewator Cotag® Wrist tag, typically on their wrist but, in some cases, this can be worn on the ankle instead, is allowed normal access throughout the building in the same way as all the other patients, thereby ensuring no discrimination between them and any other patient. If, however, the patient approaches a door designated a 'wanderer' door through which he or she is not allowed, then the system can be set up to initiate certain actions as described below.



1. Lock the door that would normally be open.

This is the quickest and simplest way of effecting Wanderer Control. The patient wearing the tag approaches the door - the loop around the door is capable of reading a tag which is up to 2M distance in less than 60ms – the loop detects the presence of a tag and locks the door to stop the patient from opening it.

2. Lock the door that would normally be open and set off a local alarm*

By using the alarm feature, which can be placed by the door through which the patient is trying to go, near the nursing station or in any other strategic position in the building, an audible warning is given to the care staff to alert them that a patient has tried to leave through one of the 'wanderer' doors. This enables them to know that an event has happened but, because the door is locked, they need not take immediate action.

3. Set off a local alarm leaving the door unlocked

In this scenario more urgent action would be required by the care staff in that all the system will do is alert them to the fact that a patient has gone through a 'wanderer' door. They must go and find that patient without necessarily knowing who it is they are actually looking for.

* Locking the door also requires an override facility to cope with fires and other emergencies.

Healthcare and Asset Protection Products

Wanderer Control and Infant Protection

4. Lock the door and send a signal via a paging system

In this installation the controller, instead of setting off the local alarm (this can be kept as a requirement if so desired) sends a signal to a central paging system and can send messages to the pager with details of who the patient is and what door they are trying to pass through.

5. Send signal via a paging system leaving the door unlocked

Again this scenario requires more urgent action, as the patient is able to open the door and pass through. At least the care staff know who they are looking for and through which door they have passed.

On occasions there will be a requirement for the patient to pass through the door legitimately. In this case the care staff may be given authorisation to accompany the patient through the loop without setting off the configured alarm action. This is achieved by issuing the care staff with a tag known as an 'Override' or "Escort" tag that overrides the alarm action from the patient's tag thus allowing them the possibility to take patients freely through the door.

Infant Protection

Exactly the same philosophy used in Wanderer Control can be used with tags on babies in maternity wards. In this situation the "Tag" is given to the baby (normally around the ankle) and the "Escort" tags are given to the nursing staff. In addition it is possible to give the baby's parents their own "Guardian" tags which will allow them to override only their own baby's alarm.

The installed system is very similar to the standard Wanderer Control System, using a Bewator 5470 Multi-Function Loop Reader on each secured door connected to a detection loop. By using long range Hands Free techniques the system works automatically and since the tag wearer needs to make no conscious action to use the system, it is both discrete and hygienic.



In Dual Discrimination Mode a monitored tag is attached to a patient or baby. If not accompanied by either a valid Override tag or Guardian tag, the Reader will alarm.

Asset Protection

Theft of assets not only increases replacement costs, but also affects downtime and, in the case of laptops, the value and sensitivity of the data too.

Using the same Technology as used in Wanderer Control and Infant Protection a 944 Asset tag with a unique code is attached to the asset. If an unauthorised person attempts to remove an asset, the 5470 Multi-Function Loop Reader can trigger an alarm or activate a door lock. In Dual Discriminating Mode this code is linked to one in the owner's 928 Active card. This means that legitimate users can take valuable assets out on business without cumbersome signing out procedures and security staff can then concentrate on genuine alarms created by any unauthorised users.

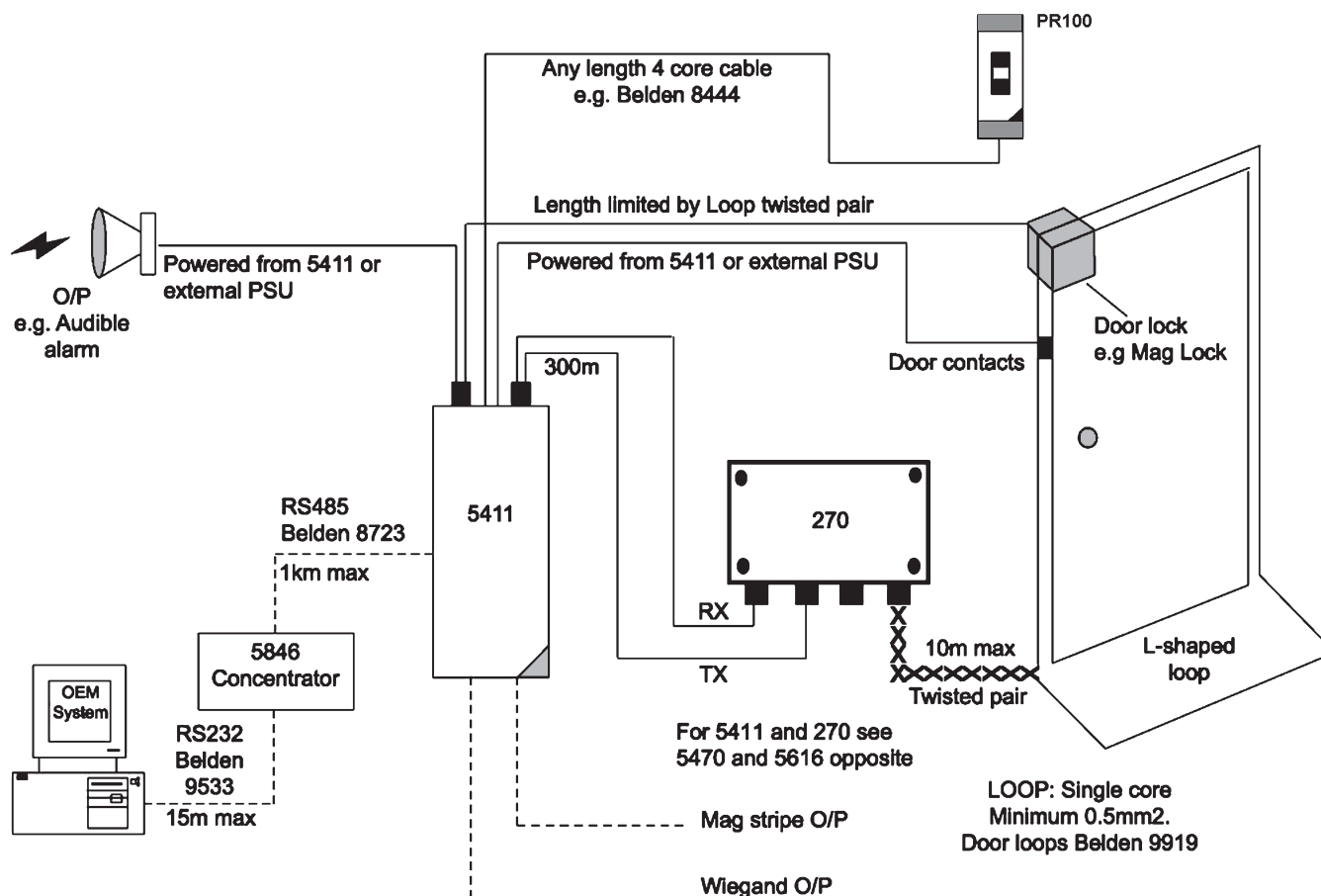
A tag is attached to an object that requires monitoring. The Reader alarms if the monitored object is detected within the reading area without being accompanied by an Override tag.

The number of tag combinations available is almost unlimited as the system works by comparing numbers in the different types of tags and does not need to know identities of the tag wearers.



Healthcare and Asset Protection Products

Typical Loop Installation for Healthcare and Asset Applications



Applications for 5400 Series Reader range

Infant Monitoring

A tag can be placed onto a baby to prevent it being removed from its secure area by anyone else, but parents or authorised nurse. The unit will alarm if any of its strict rules are broken enabling you to activate the appropriate security measures.

Wanderer Control

Residential care homes and nursing homes need to detect if a patient or person is trying to leave the premises and to give staff warning or activate appropriate security measures.

Asset Protection

Assets can be linked to their owner by means of asset tags and normal access control tags. Only the owner or an authorised person will be allowed to remove the property from the building without an alarm being set off.

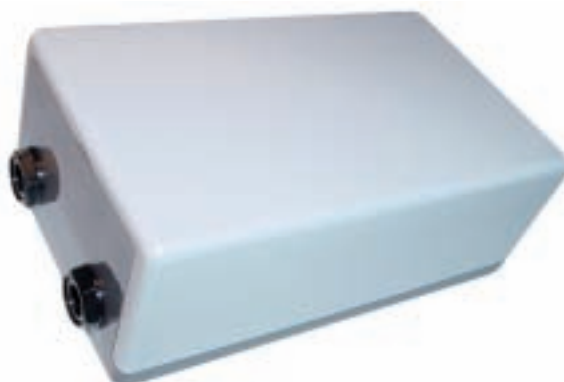
The tags are specially designed with US Food & Drug Administration (FDA) approval for continuous skin contact. They can be used in a medical environment being waterproof and dustproof.

Note: Bewator's Cotag® Technology Loop aerials provide long range solutions for the above applications, but as these systems are more complex to configure and set up than normal Readers we strongly recommend that all engineers undergoing such installations should attend our 'Loop Aerial System Hardware' Training Course. For full details of this course and any courses that we hold please consult our Technical Services team or visit our website.

Integrated Multi-Function Door Control

Model No.

5470



General Description

Integrated Multi-Function Loop Reader. Consisting of a 270 Loop Coupler and a 5411 Multi-Function Reader Interface in a single housing. For use in Healthcare and Asset Tagging Applications.

Infant Monitoring: A tag can be placed onto a baby to prevent it being removed from its secure area by anyone else, but parents or authorised nurse. The unit will alarm if any of its strict rules are broken enabling you to activate the appropriate security measures.

Wanderer Control: Residential care homes and nursing homes need to detect if a patient or person is trying to leave the premises and to give staff warning or activate appropriate security measures.

Asset protection: Assets can be linked to their owner by means of asset tags and normal access control tags. Only the owner or an authorised person will be allowed to remove the property from the building without an alarm being set off.

Can be used Standalone or interfaced into Granta using the 4422 Dual Reader Module

Product Description

Transmit Frequency 132kHz, Receive Frequency 66kHz.64 data bits, read time typically 400ms. Impact-resistant polystyrene base and clip-on top cover. Weather resistant (not suitable for burial). Simple installation

Dimensions H x W x D (mm)

195 x 110 x 70

Temperature

0 to 50°C

Environmental

IP54

Electrical

12Vdc, 350mA

Reading Range

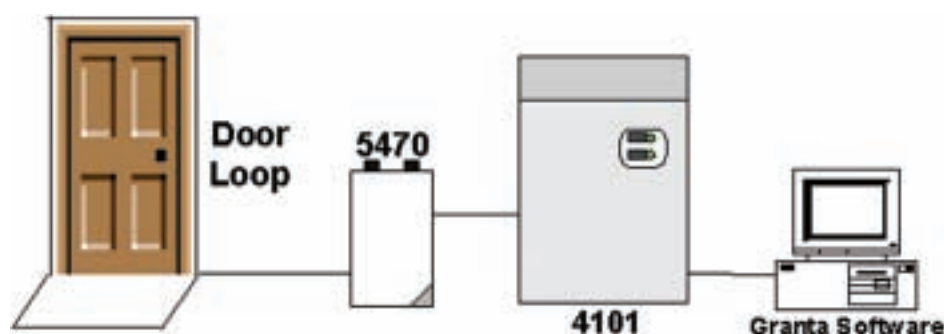
2 metre typical with Active 928 Card, 944 Asset Tag, 940 & 942 Wrist Tags

Reading Range Limitations

Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can greatly reduce the reading range – contact Technical Services for further advice

Price £ R.R.P.

741.00

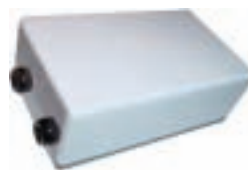


Healthcare and Asset Protection Products

Integrated Multi-Function Door Control

Model No.

5611



General Description	Hands-Free Multi-Function Reader Pack consisting of a HF100 Reading Head and a separate 5411 Multi-Function Reader. For use in Healthcare and Asset Tagging Applications. Can be used Standalone or interfaced into Granta using the 4422 Dual Reader Module
Dimensions H x W x D (mm)	5411 - 188 x 110 x 40. HF00 - 265 x 220 x 29.3
Temperature	0 to 50°C
Environmental	5411 - Internal use only. HF100 - IP54
Electrical	12Vdc, 350mA
Reading Range	2 metre typical with Active 928 Card, 944 Asset Tag, 940 & 942 Wrist Tags
Reading Range Limitations	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can greatly reduce the reading range - contact Technical Services for further advice
Price £ R.R.P.	689.00

Model No.

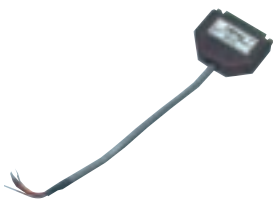
5615



General Description	Proximity Multi-Function Reader Pack consisting of a PR100 Reading Head and a separate 5411 Multi-Function Reader. For use in Healthcare and Asset Tagging Applications. Can be used Standalone or interfaced into Granta using the 4422 Dual Reader Module
Dimensions H x W x D (mm)	5411 - 188 x 110 x 40. PR100 - 143 x 40 x 18.5
Temperature	0 to 50°C
Environmental	5411 - Internal use only. PR100 - IP55
Electrical	12Vdc, 350mA
Reading Range	30cm typical with Active 928 Card, 944 Asset Tag, 940 & 942 Wrist Tags
Reading Range Limitations	Typical range specified assumes the card is in its best position and orientation, and that the Reader is not unduly affected by electrical noise. Mounting the Reader onto a metal surface can greatly reduce the reading range - contact Technical Services for further advice
Price £ R.R.P.	635.00

Healthcare and Asset Protection Products

Accessories

Model No.	5810	ID100	922
			
General Description	RS232 Converter for 5000 Series Readers	Remote Indicator. Used to provide indication when a loop system is installed	Test card – used to give an indication of the reading field from a Reading Head or Loop
Price £ R.R.P.	52.00	42.00	21.00

Model No.	5411	270
		
Multi-Function Reader	Interface, for Healthcare and Asset Tagging applications. May be used with an Cotag® Reading Head	Loop Coupler. Features Cotag® Technology. Provides, by a buried loop in the ground or round a door, a read range of up to 2 metres. Use only Active cards & tags.
Price £ R.R.P.	529.00	370.00

Healthcare and Asset Protection Products

Tags for Wanderer Control, Infant and Asset Protection

Model No.	940	942	944	H213
				
General Description	Wrist Tag for use with 5470 Multi Function Loop Reader. Used for non-accompanied Healthcare applications. Up to 2 metres read range	Dual Discriminating Wrist Tag for use with 5470 Multi Function Controller. Used for accompanied Healthcare applications. Up to 2 metres read range	Asset Tag for use with 5470 Multi Function Loop Reader. Featuring Cotag® Active Technology. Up to 2 metres read range	Strap for 940 and 942 Wrist Tags, used in Healthcare Applications
Price £ R.R.P.	21.25	21.25	10.65	3.25

Model No.	928	928-Clear	928-Red	928-Green
				
General Description	Active clamshell card. Featuring Cotag® Active Technology	Clear Active clamshell card. Featuring Cotag® Active Technology	Red Active clamshell card. Featuring Cotag® Active Technology	Green Active clamshell card. Featuring Cotag® Active Technology
Price £ R.R.P.	8.99	9.35	9.35	9.35

Model No.	928-Purple	928-Blue	911
			
General Description	Purple Active clamshell card. Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reading Head, 30cm with Proximity Reading Head	Blue Active clamshell card. Featuring Cotag® Active Technology. Up to 1 metre read range with Hands-Free Reading Head, 30cm with Proximity Reading Head	Active keyring tag. Featuring Cotag® Active Technology. Tough polycarbonate case. Up to 75cm read range with Hands-Free Reading Head, 25cm with Proximity Reading Head
Price £ R.R.P.	9.35	9.35	11.65

Card and Tag Programmer

Model No.

633-2-V1



General Description

Cotag® Programmer allows you to meet your customers individual requirements for programming Active and Passive Cotag® Technology cards and tags. It allows programming of small batches or individual cards and can be used to create configuration cards to set up any Bewator Readers. The programmer can be configured for an end user. This allows your customers to have local control over card issuing. Requires a Bo/217-1 12V PSU or Bo2/218-1 12V PSU

Dimensions H x W x D (mm)

230 x 220 x 80

Temperature

-10 to 40 °C

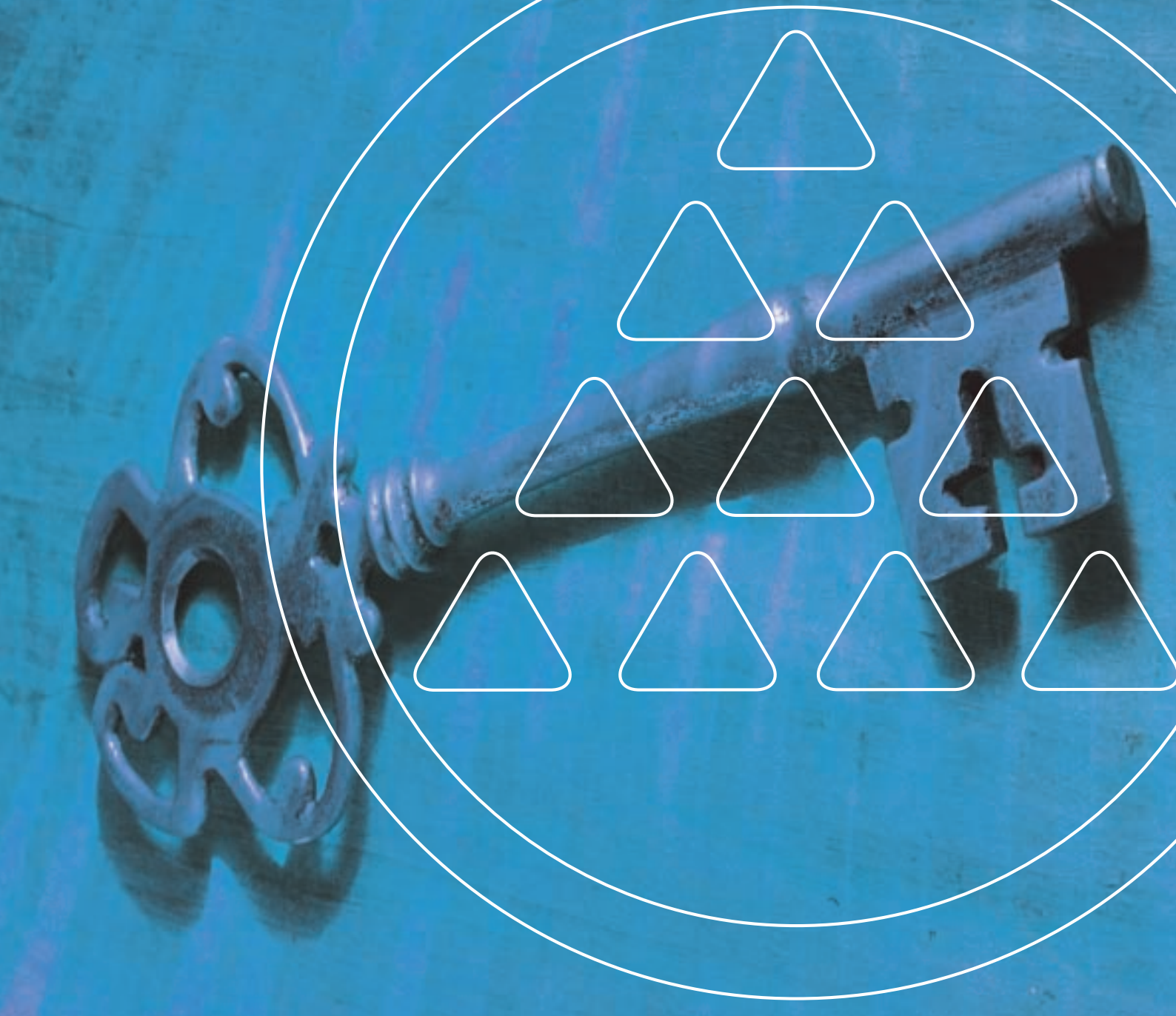
Environmental

Internal use only

Price £ R.R.P.

2,110.00





Accessories

Bewator can now offer a complete range of Accessories to complete your Access Control installation all at competitive prices. Our range varies from Maglocks, Strikes, Door Ancillaries, Power Supply Units and Video Badging Equipment to compliment our Entro and Granta Access Control systems.

For further information please contact our Marketing team on 0871 386 0840 or email them at marketing@bewator.co.uk

For Further information please contact us on 0871 386 0835



BEWATOR

A Siemens Business

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Our range varies from Maglocks, Strikes, Door Ancillaries and Video Badging Equipment



Accessories

Locking Devices	131
900 Series Maglocks	132
MS Series Maglocks	138
Electronic Strikes	139
Mechanical Locks	143
Ancillaries	147
Request to Exit Buttons	149
Break Glass, PIR & Keyswitches	151
Fireman's Switches, Door Loops, Paddle Handles,	
Lock Guard & Cleaning Kit	152
Tailgate Detector	153
Door Operator	154
Walk Through Metal Detector	156
Power Supply Units	157
Power Supply Units	158
Video Badging Equipment	159
Video Badging Printers	160
Video Badging Accessories & Print Ribbons	162
Video Badging Cameras & Accessories	164
Card Accessories	165
Visitor Management System	168



Locking devices

Bewator has a complete range of locking devices for all of your security needs, ranging from Mechanical Locks, Electric Strikes to Electromagnetic Locks. Our range varies from cost effective entry level Maglocks to quality higher specification ones, budget and project specific Electric Strikes and we can now complete this range of Strikes with a selection of Mechanical Locks.

For further information please contact our Marketing team who will be more than happy to help. They can be contacted on 0871 386 0840, or via email at marketing@bewator.co.uk.

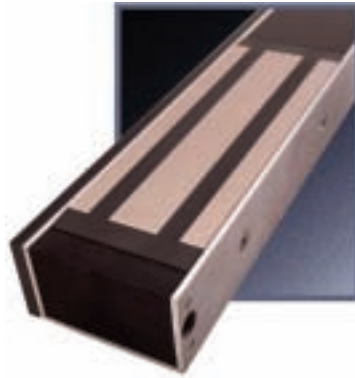
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- Complete and comprehensive range
- Locking devices from Maglocks, Strikes and Cylinders
- Enabling a secure installation
- Cost effective solutions

Locking Devices

900 Series Electromagnetic Locks

Model No.	AEM10001	AEM10002	AEM10002
			
General Description	Surface Slimline Mini Magnet	Mortice Slimline Monitored Mini Magnet	Slimline Monitored Mini Magnet
Voltage	12/24V DC	12/24V DC	12/24V DC
Current	500/250mA	500/250mA	500/250mA
Holding Force	300kg/660lbs	300kg/660lbs	300kg/660lbs
Price £ R.R.P.	48.00	56.00	56.00

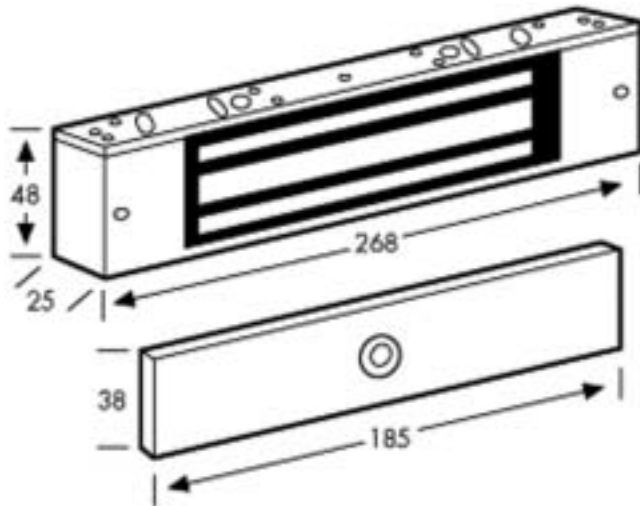
Model No.	AEM10010	AEM10020	AEM10060
			
General Description	Standard Magnet	Standard Monitored Magnet	Double Standard Magnet
Voltage	12/24V DC	12/24V DC	12/24V DC
Current	500/250mA	500/250mA	500/250mA
Holding Force	600kg/1200lbs	600kg/1200lbs	600kg/1200lbs
Price £ R.R.P.	68.00	70.00	124.00

Model No.	AEM10040	AEM10003	AEM10004
			
General Description	Double Standard Monitored Magnet	Double Surface Slimline Magnet	Double Surface Slimline Monitored Magnet
Voltage	12/24V DC	12/24V DC	12/24V DC
Current	2 x 500/250mA	2 x 500/250mA	2 x 500/250mA
Holding Force	600kg/1200lbs	600kg/1200lbs	600kg/1200lbs
Price £ R.R.P.	130.00	94.00	96.00

900 Series Electromagnetic Locks

The 9000 Series electromagnetic locks offer cost effective solutions for a variety of applications. As there are no moving parts, frequent lubrication or adjustment is not required thus keeping maintenance to a minimum.

The 9000 Series offers solutions for small sliding doors and brackets are available to ease installation for inward or outward opening doors. The range also offers three options Mortice, Slimline and Standard sizes with site adjustable voltage 12-24V DC.



AEM10001

AEM10001 – Surface Slimline Magnet

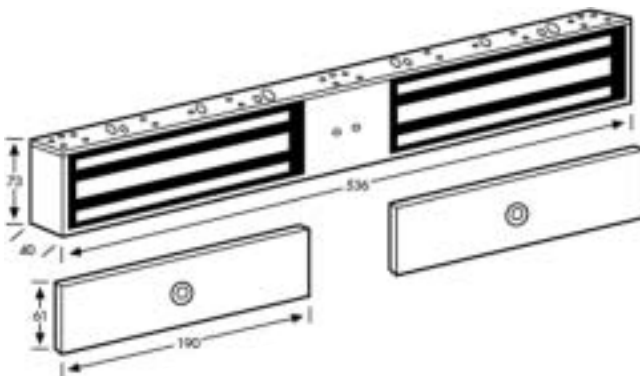
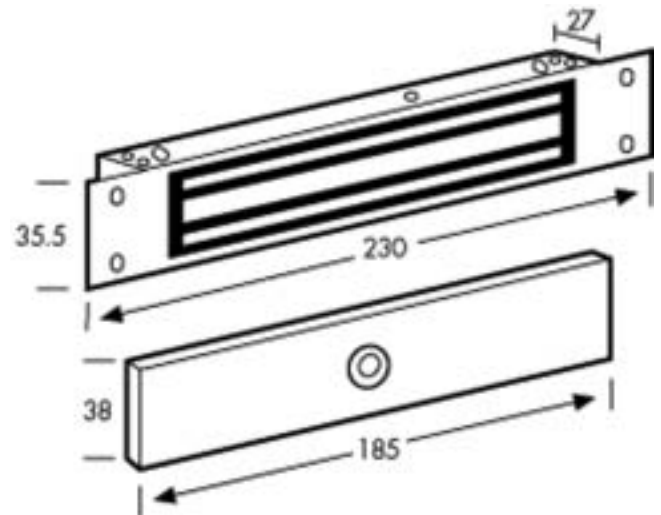
AEM10001 – Surface Slimline Monitored Magnet

AEM10002 – Mortice Slimline Monitored Magnet

HOUSINGS AVAILABLE

1000 x 50 x 38 single

2000 x 50 x 38 double



AEM10060 - Double Standard Magnet

AEM10040 - Double Standard Monitored Magnet

Locking Devices

900 Series Electromagnetic Locks

Model No.	AMG940	AEM/MINIGATE	AMG943
			
General Description	Surface Slimline Gate Magnet	Surface Slimline Monitored Gate Magnet	Standard Gate Magnet
Voltage	12/24V DC	12/24V DC	12/24V DC
Current	500/250mA	500/250mA	500/250mA
Holding Force	300kg/660lbs	300kg/660lbs	600kg/1200lbs
Price £ R.R.P.	126.00	138.00	104.00

Model No.	AEM/GATE	ASH850
		
General Description	Standard Monitored Gate Magnet	New Micro Shearlock with self aligning spring studs
Voltage	12/24V DC	12V DC
Current	500/250mA	500/250mA
Holding Force	600kg/1200lbs	800kg/1700lbs
Price £ R.R.P.	148.00	240.00



The DSH850 New Micro Shearlock is designed for applications on double swing doors or doors that need to obtain the full doorway height and the original architectural appearance.

The DSH850 is a self-aligning magnet with two moving pins, which allow the door to close on the correct position before the magnet energises and pulls the armature on to the face of the magnet.

Electromagnetic Locks Door Specification

Door Specification

Is the door for ACCESS CONTROL or for SECURITY purposes as well? Initially view the door to see if the door is **Inward** or **Outward** opening

When viewing/specifying the door, has the door been fitted with a door closer? Will the door closer interfere with the locking mechanism?

Outward Opening Doors

Measure the depth of the frame to the face of the door to determine if the magnet will fit on the underside of the frame without the need for brackets

Inward Opening Doors

Measure the height of the doorframe to ensure there is enough material for the magnet to be mounted onto it with the "L" bracket, which is supplied with an inward-opening bracket set

Notes

If the magnet is to be mounted on the underside of the doorframe, ensure that it will not reduce the overall height of the doorframe below 6'6".

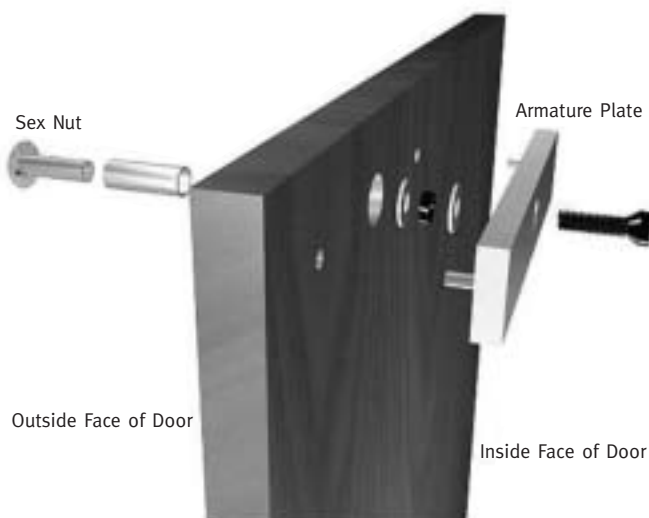
If the door is inward opening, and the purpose of the electromagnet is not for security purposes, it may be mounted on the un-secure side.

Ensure the door thickness is a minimum of 44mm to facilitate the sex nut and bolt

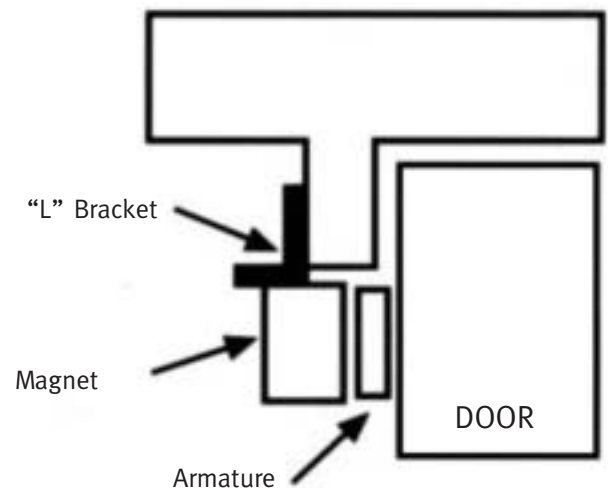
Check the integrity of the door will not be less than the physical strength of the magnet i.e.

Honeycomb door, or one of a similar construction

Standard Fitting of Armature Plate



Standard Maglock Fitting



Locking Devices

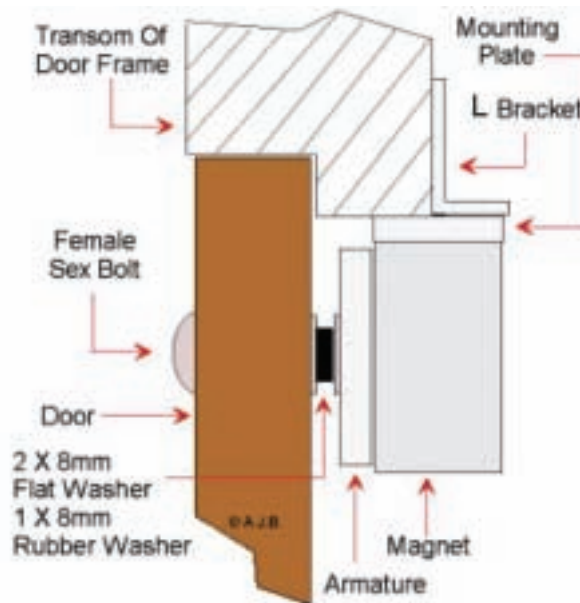
900 Series Electromagnetic Locks

Model No.	AEMBR018	AMH590L	AMH590LA
			
General Description	Armature Holder – Slimline	Adjustable L Bracket for Outward Opening Doors – Slimline	Z and L Bracket Set for Inward Opening Doors – Slimline
Price £ R.R.P.	18.00	30.00	36.00

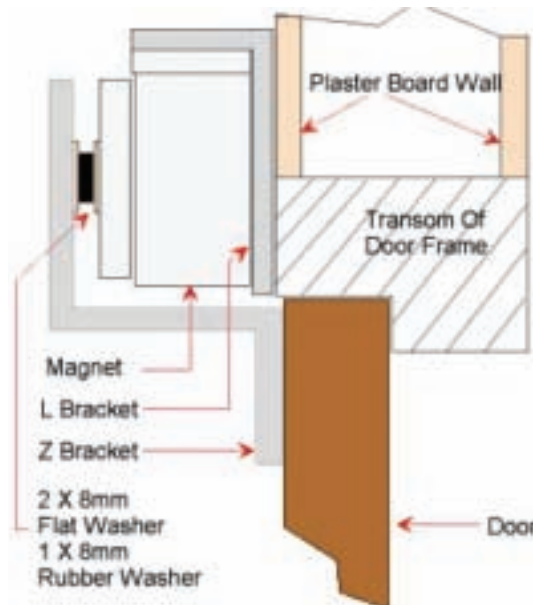
Model No.	AEMBR018	AMH594LA	AMH594ZA
			
General Description	Armature Holder – Standard	Adjustable L Bracket for Outward Opening Doors – Standard	Z and L Bracket Set for Inward Opening Doors – Standard
Price £ R.R.P.	20.00	32.00	38.00



L Bracket Schematic



Z and L Bracket Schematic



L Bracket – For areas where the headroom is not sufficient or where the door opens inwardly

Z Bracket – For use on inward opening doors where the magnet is required to be fitted on the secure side of the door

Armature Housing – For high strength the armature is normally fitted with a sex bolt through the door, if the end user requests that no fittings are shown on the outside edge of the door then an armature housing is fitted with multi-fixing points

Locking Devices

MS Series Electromagnetic Locks

Model No.	MS-15-SSU-12	MS-15-SSM-12	MS-15-Z&L	MS-20-SFU-12
				
General Description	Surface Mount Slimline Maglock	Surface Mount Monitored Slimline Maglock	Z & L Bracket for MS-15 Maglocks	Flush Mount Transom Maglock
Voltage	12V DC	12V DC	N/A	12V DC
Current	500/250mA	500/250mA	500/250mA	500/250mA
Holding Force	300kg/660lbs	300kg/660lbs	N/A	300kg/660lbs
Price £ R.R.P.	90.00	110.00	46.00	130.00

Model No.	MS-20-SFM-12	MS-20-WPU-12	MS-30-SSU-12	MS-30-SSM-12
				
General Description	Flush Mount Monitored Transom Maglock	Waterproof Transom Maglock	Surface Mount Maxi Maglock	Surface Mount Monitored Maxi Maglock
Voltage	12V DC	12V DC	12V DC	12V DC
Current	500/250mA	500/250mA	500/250mA	500/250mA
Holding Force	300kg/660lbs	300kg/660lbs	600kg/1200lbs	600kg/1200lbs
Price £ R.R.P.	158.00	210.00	146.00	170.00

Model No.	MS-30-WPU-12	MS-30-Z&L	MS-40-SFM-12	MS-40-SSM-12
				
General Description	Waterproof Maxi Maglock	Z&L Brackets for MS-30 Maglocks	Flush Mount Monitored Shear Maglock	Surface Mount Monitored Shear Maglock
Voltage	12V DC	N/A	12V DC	12V DC
Current	500/250mA	N/A	1.5A/0.5A	1.5A/0.5A
Holding Force	600kg/1200lbs	N/A	1000kg	1000kg
Price £ R.R.P.	226.00	64.00	270.00	350.00

Electronic Strikes

Model No.	AER971/972	AER973	AL65/65M
			
General Description	Medium Security Strike with ANSI Face Plate	Medium Security Strike with ANSI Face Plate	RCI Low Profile Strike - less Faceplate. DAL5 - unmonitored, DAL65M - monitored. Please note you must purchase the appropriate faceplate.
Voltage	12V AC/DC	24V AC/DC	12/24V DC
Fail Options	AEDER971 - Fail Safe AEDER972 - Fail Secure	Fail Safe	Fail Safe / Fail Secure
Price £ R.R.P.	AEDER971 - 26.00 AEDER972 - 26.00	AEDER973 - 26.00	AL65 - 120.00 AL65M - 160.00

Accessories

Model No.	AB60432D	AB60732D	FTS111AS
			
General Description	1" x 4 7/8" RCI Faceplate - Stainless Steel to suit Metal/Aluminium Frames. Required for RCI Low Profile Strike	1" x 6 7/8" RCI Faceplate - Stainless Steel to suit Wooden Frames. Required for RCI Low Profile Strike	Trimec TS111AS Electric Strike with Short Face Plate
Voltage	N/A	N/A	12V DC
Fail Options	N/A	N/A	Fail Safe / Fail Secure
Price £ R.R.P.	13.00	17.00	160.00

Locking Devices

Electronic Strikes

RCI Low Profile Strike – AL65/65M

RCI's "all-in-one" 6 Series electric strike combines several requested key features.

Standard features include a multi-voltage single solenoid, selectable lock mode (no tools necessary), horizontal adjustment, and plug-in wire connectors!



Highlights

- Field selectable lock mode
- Field selectable voltage
- Tested to over 1,000,000 cycles

Features & Benefits

- Field selectable lock mode – choose fail secure or fail safe with the turn of a dial
- Field selectable voltage input – accommodates 12 or 24VDC and 12 to 24VAC (even 16VAC) in one strike!
- Low profile version is shallow enough for use with narrow stile aluminum frames (only 1-1/16" deep).
- Horizontal adjustability for proper alignment (up to 1/4")
- Monitor switch option
- Modular "plug-in" wire connectors for fast hook-up
- Modular faceplate designs for a variety of frame types and cut outs

Horizontal Adjustment (up to 1/4")



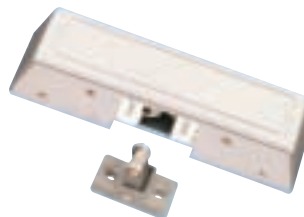
- Dynamic force tested to 70 ft. lbs.
- UL Listed 1034 Burglary Resistant
- Low profile version
- Horizontal adjustability
- Plug-in wire connectors

Electronic Strikes

Model No.	FTS112BS	FTS151	FTS201/2001
			
General Description	Trimec TS111AS Electric Strike with Long Face Plate	Trimec TS151 Rim Electric Strike	Trimec TS201 High Security Electric Strike DER201 - Unmonitored DER201M - Monitored
Voltage	12V DC	12V DC	12V DC
Fail Options	Fail Safe / Fail Secure	Fail Safe	Fail Safe
Price £ R.R.P.	180.00	200.00	FTS201 - 249.00 FTS2001 - 310.00

Accessories

Model No.	FES701/703
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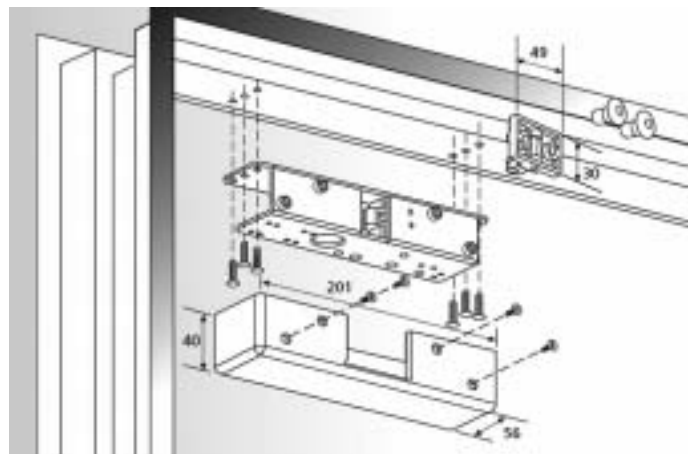


General Description	Hook Lock - surface mount
Voltage	12V DC
Fail Options	FES701 - Fail Safe FES703 - Fail Secure, Monitored
Price £ R.R.P.	FES701 - 430.00 FES703 - 430.00

Locking Devices

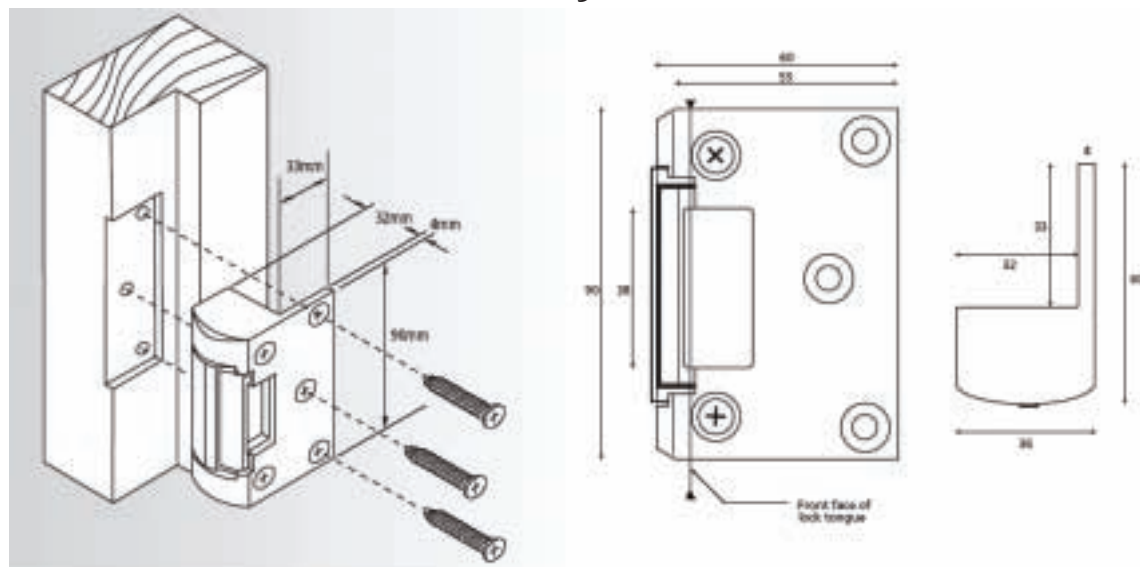
Electronic Strikes

Schematics & Installation Drawings

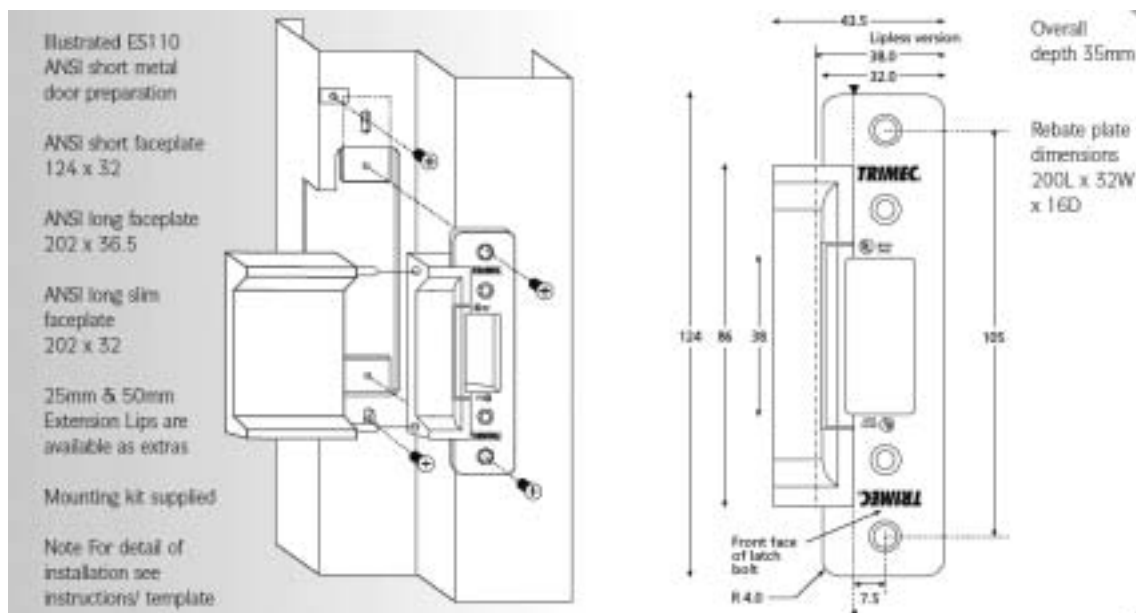


DER201 Surface
Mount Hook Lock

DR150 Rim Electric Strike



DER110
Electric
Strike



Mechanical Locks

Mortice Nightlatches

High-grade specification lock case for use with all leading brand Euro Cylinders.

The Euro 500 series lock cases are designed for ease of installation within high usage areas such as schools, hospitals and office accommodation. Available with brass and stainless steel forends, the Euro 500 series is supplied with two spring strengths for sprung and unsprung door furniture. The Euro 500 series includes a reversible latch for on site adjustment in 30 seconds without opening the lock case and twin hardened roller pins within the deadbolt to stop a thief cutting through the bolt.



External Doors



Weather Resistant



Side Load Strength



Timber Doors



Metal Doors



Anti Tamper

Model No:	General Description	Price £ R.R.P.
SEU511.1	Mortice Nightlatch , 64mm polished brass	28.00
SEU512.1	Mortice Nightlatch , 76mm polished brass	28.00
SEU511.2	Mortice Nightlatch , 64mm stainless steel	28.00
SEU512.2	Mortice Nightlatch , 76mm stainless steel	28.00
SEU513.1	Mortice Nightlatch , 64mm polished brass c/w holdback	30.00
SEU514.1	Mortice Nightlatch , 76mm polished brass c/w holdback	30.00
SEU513.2	Mortice Nightlatch , 64mm stainless steel c/w holdback	30.00
SEU514.2	Mortice Nightlatch , 76mm stainless steel c/w holdback	30.00

Locking Devices

Mechanical Locks

Cylinders

The Euro-Oval Profile ranges of cylinders are supplied standard differ only in four options. Single cylinders for locks where you only require key entry from one side, double cylinder for key entry from both sides of the door, Rim for rim nightlatch locks and cylinder with turn for key entry and finger turn to exit.

Euro-Oval profile cylinders are available in Brass and Nickel-plated finishes and conform to BS EN 1303 grade 3.



45000 Differ



External Doors



Weather Resistant

Model No:	General Description	Price £ R.R.P.
SSEU601	30 x 30 Double Cylinder with 3 keys, polished brass	4.60
SEU602	30 x 30 Double Cylinder with 3 keys, polished nickel	6.00
SEU601T	30 x 30 Cylinder and turn c/w 3 keys, polished brass	7.00
SEU602T	30 x 30 Cylinder and turn c/w 3 keys, polished nickel	8.00
SEU401	40mm Single Cylinder c/w 3 keys, polished brass	3.60
SEU402	40mm Single Cylinder c/w 3 keys, polished nickel	4.20

Mechanical Locks

Rim Nightlatches

Designed for a trouble free life and an affordable price.

The 700 Rim Nightlatch is available in three finishes, Brass, Chrome and Bright White with matching keep.

The lock offers a universal deadbolt and hold back snib for greater convenience and security.

The 700 Rim Nightlatch is supplied in standard and narrow stile options for glazed or plain doors.



External Doors



Weather Resistant



Timber Doors



Metal Doors

Model No:	General Description	Price £ R.R.P.
SBL750	Rim Nightlatch , standard, brass cylinder and case	20.00
SBL751	Rim Nightlatch , standard, brass cylinder and white case	16.00
SBL754	Rim Nightlatch , standard, chrome cylinder and case	20.00
SBL752	Rim Nightlatch , narrow, brass cylinder and case	20.00
SBL753	Rim Nightlatch , narrow, brass cylinder and white case	16.00
SBL755	Rim Nightlatch , narrow, chrome cylinder and case	20.00



Ancillaries

Bewator's ancillaries range has now been extended to include a greater range of Request to Exit Buttons, Emergency Breakglasses, Tailgate Detectors, Door Operators and Loops, Key-switches and other installation equipment that is essential to aid you in completing your security installation.

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- High quality accessories
- Comprehensive range
- Cost effective solutions
- Ensuring a complete, simple installation

Ancillaries

Request to Exit Buttons

Model No.	EB650-S	EB650-SNS	EB651-S	EB651-SNS
				
General Description	Illuminated Exit Button - Momentary, 1 Gang, Stainless Steel	Illuminated Exit Button - Momentary, 1 Gang, Stainless Steel, Narrow Style	Illuminated Exit Button - Maintained, 1 Gang, Stainless Steel	Illuminated Exit Button - Maintained, 1 Gang, Stainless Steel, Narrow Style
Price £ R.R.P.	34.00	34.00	40.00	40.00

Model No.	EB656-S	EB656-SNS	EB657-S	EB658-S
				
General Description	Raised Green Exit Button - 1 Gang, Stainless Steel	Raised Green Exit Button - 1 Gang, Stainless Steel, Narrow Style	Raised Green Exit Button - 1 Gang, Stainless Steel	Vandal Resistant Exit Button - 1 Gang, Stainless Steel
Price £ R.R.P.	34.00	34.00	34.00	30.00

Model No.	EB658-SNS	EB658-B	EB658-BNS	EB659-S
				
General Description	Vandal Resistant Exit Button - 1 Gang, Stainless Steel, Narrow Style	Vandal Resistant Exit Button - 1 Gang, Polished Brass	Vandal Resistant Exit Button - 1 Gang, Polished Brass, Narrow Style	Vandal Resistant Exit Button - 25mm, 1 Gang, Stainless Steel
Price £ R.R.P.	30.00	42.00	42.00	38.00

Request to Exit Buttons

Model No.	EB659-SNS	EB659-B	EB659-BNS
			
General Description	Vandal Resistant Exit Button - 25mm. 1 Gang, Polished Brass	Vandal Resistant Exit Button - 1 Gang, Polished Brass	Vandal Resistant Exit Button - 1 Gang, Polished Brass, Narrow Style
Price £ R.R.P.	38.00	46.00	46.00

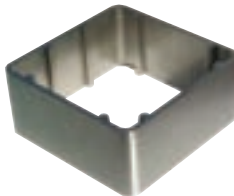
Model No.	EB666-S	EB673-S	EB675-S
			
General Description	Heavy Duty Illuminated Exit Button - 1 Gang, Stainless Steel	Touch Sensitive Exit Button - 1 Gang, Stainless Steel	Touch Sensitive Exit Button with LED - 1 Gang, Stainless Steel
Price £ R.R.P.	76.00	50.00	64.00

Model No.	EB654-S	EB654-SNS	MK-814
			
General Description	Indicator Plate With Red & Green LEDs - Stainless Steel	Indicator Plate With Red & Green LEDs - Narrow Style, Stainless Steel	White Plastic Exit Button
Price £ R.R.P.	19.00	19.00	12.00

Ancillaries

Request to Exit Buttons

Model No.	FDT001	FDT005	EB600-SF
			
General Description	"Touch to Exit" DDA Style Button - 1 gang, 3 Sensitivity Settings, Stainless Steel	"Touch For Assistance" DDA Style Button - 1 gang, 3 Sensitivity Settings, Stainless Steel	Security Screws for EB Exit Buttons, Pack of 2
Price £ R.R.P.	60.00	60.00	2.25

Model No.	EB600-SFT	EB610-S	EB620-SNS
			
General Description	Security Screw Fixing Tool for EB Exit Buttons	Surface Housing for EB Exit Buttons - 1 Gang, Stainless Steel	Surface Housing for EB Exit Buttons - 1 Gang, Narrow Style, Stainless Steel
Price £ R.R.P.	5.50	11.00	11.00

Model No.	EB610-B	EB620-BNS
		
General Description	Surface Housing for EB Exit Buttons - 1 Gang, Brass	Surface Housing for EB Exit Buttons - 1 Gang, Narrow Style, Brass
Price £ R.R.P.	40.00	40.00

Break Glass, PIR & Keyswitches

Model No.	WG2001-SG	KG1	PIR860	PB9000
				
General Description	Break Glass Unit - Green Surface Mount, Single Pole	Replacement Glass for WG2001-SG, Pack of 10	Request to Exit PIR Sensor - Light Grey	Microswitched Dummy Push Bar - Green Engraved "Push To Open", white
Price £ R.R.P.	19.00	16.00	67.00	210.00

Model No.	KS660-S	KS660-SNS	KS661-S	KS661-SNS
				
General Description	Keyswitch, Momentary - 2 Keys, 1 gang, Stainless Steel	Keyswitch, Momentary - 2 Keys, 1 gang, Narrow Style, Stainless Steel	Keyswitch, Maintained - 2 Keys, 1 gang, Stainless Steel	Keyswitch, Maintained - 2 Keys, 1 gang, Narrow Style, Stainless Steel
Price £ R.R.P.	31.00	31.00	31.00	31.00

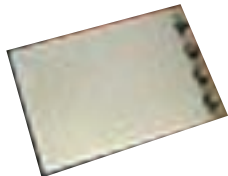
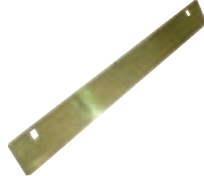
Model No.	KS662-S	KS662-SNS	KS668-S	KS669-S
				
General Description	Keyswitch, Momentary - 2 Keys, 1 gang, 3 Positions Stainless Steel	Keyswitch, Momentary - 2 Keys, 1 gang, 3 Positions Narrow Style, Stainless Steel	Euro Profile Keyswitch Momentary - 1 gang, No Cylinder, Stainless Steel	Euro Profile Keyswitch, Maintained - 1 gang, No Cylinder, Stainless Steel
Price £ R.R.P.	37.00	37.00	35.00	35.00

Ancillaries

Fireman's Switches, Door Loops, Paddle Handle, Lock Guard & Cleaning Kit

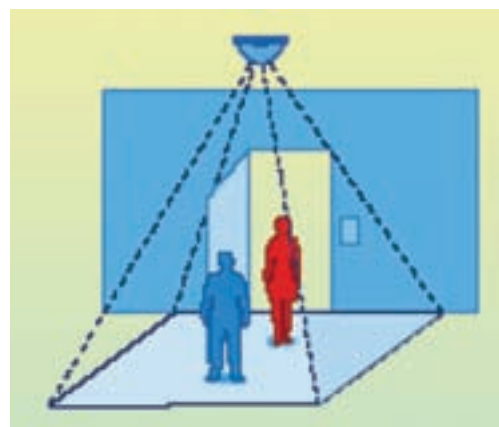
Model No.	FS690-S	FS691-S	FS690-DK	FS690-SFT
				
General Description	Fireman's Override Drop Keyswitch - Flush, Stainless Steel	Fireman's Override Drop Keyswitch - Surface, Stainless Steel	Drop Key for Fireman's Override Drop Keyswitch	Security Fixing Tool for Fireman's Override Drop Keyswitch
Price £ R.R.P.	99.00	140.00	36.00	34.00

Model No.	DL250-A	DL250-S	DL251-BN	DL251-PC
				
General Description	Surface Door Loop - Armoured	Surface Door Loop - Spring	Mortice Door Loop - Black Nickel	Mortice Door Loop - Polished Chrome
Price £ R.R.P.	11.00	11.00	19.00	20.00

Model No.	PH2011	LG2013-S	LG2013-B	CCP-020K
				
General Description	Universal Paddle Handle	Universal LockGuard - Stainless Steel	Universal LockGuard - Polished Brass	Cleaning Kit for Magstripe Reader Heads
Price £ R.R.P.	32.00	24.00	54.00	26.00

Tailgate Detector

Model No.	IRS2100/60
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General Description	The IRS2100/60 Tailgate Detector works in conjunction with an access control system to detect a person following a cardholder through a controlled door. The Tailgate Detector is based on the IRISYS high-accuracy thermal imaging people counting technology, detecting people by their body heat. It operates by receiving a signal from the access system for each valid cardholder accepted at a door and comparing the number of valid cards with the number of people entering. In the event that someone follows a valid cardholder through the door without presenting a valid card/token a tailgate alarm output is generated. The tailgate alarm may be used to trigger a response appropriate to the application: • Sound a local buzzer at the door to allow the person tailgating to be challenged by staff • Record a tailgate alarm on the security system to allow daily/weekly reports to be generated • Trigger live CCTV images to be displayed for an operator to action a response • Trigger an integrated response for the security system to record tailgate alarm, time/date, cardholder opening door and digital CCTV images of persons entering The IRS2100/60 operates with most access control systems requiring only a simple relay interface. For the installing engineer the unit is configured using a simple set-up programme. An airlock configuration may be enabled for interlocked door applications	
Price £ R.R.P.	1,120.00	

Model No.	IWC2044	ISU0004
General Description	Tailgate Detector Set-Up Module. Required to enable the commissioning engineer to set-up the Tailgate Detector. Connects via RS232 to a PC/Laptop. Required as a one of purchase, not per Tailgate Detector	Tailgate Detector Set-Up Software. Supplied free of charge and is required when using the Set-Up Module. Also includes the Installation Guide and Product Documentation
Price £ R.R.P.	105.00	FOC

Ancillaries

Door Operator

Model No.

21010101

General Description

The Dorma ED800 is a low-energy swing door operator designed to provide improved access for disabled people, which is essential for meeting the requirements of the new Disability Discrimination Act. A range of operating modes allows the door to be opened under power when required and used manually at other times, or alternatively allows automatic powered operation at all times, or power-assisted operation. Left or right hand, push or pull operation, actuated by various methods such as wall switch, push pad, remote control. Adjustable hold-open time. Aluminium casing, painted silver as standard. Suitable for doors 750 to 1200mm wide, weights 45 to 90kg

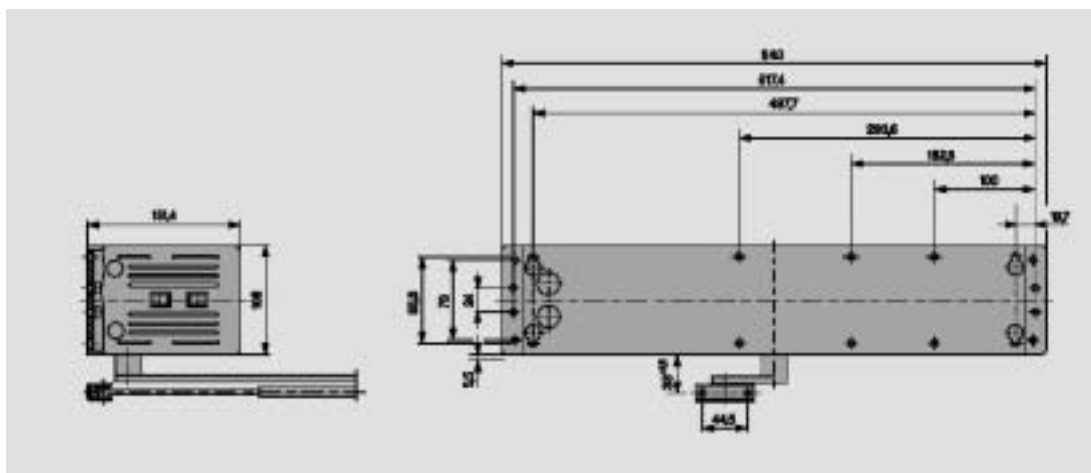
Door Parameters

- Door width (max.1200 mm)
- Door leaf weight max. 90 kg
- Dimensions (H x D x W) 108 x 166 x 540 mm

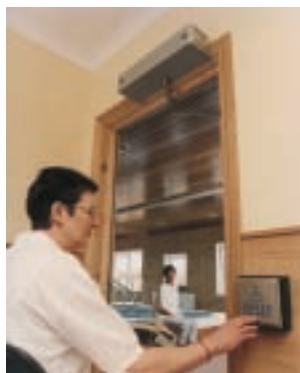
Function Programs

- OFF - Manual access with door closer function - Push-and-Go - Servo
- SERVO: virtually effortless manual opening of the door
- Door stops as soon as an obstruction impedes the sweep, and closes on expiry of the hold-open time
- Hold-open time freely selectable up to 60 s.
- Additional hold-open function with fixed preset time of 5 minutes

Price £ R.R.P.

1,700.00

Door Operator Accessories



Model No.	21000101	21000301	21000201	4023446500
General Description	ED800 Arm Standard (0-76mm Reveal)	ED800 Arm Reveal (76-178mm Reveal)	ED800 Arm Slide (Pull Slide)	1 Channel Transmitter
Price £ R.R.P.	54.00	58.00	64.00	70.00

Model No.	4023446700	44023446900	4023380400	90410015
General Description	2 Channel Transmitter	4 Channel Transmitter	Radio Control Receiver (1-12 Transmitter)	Elbow Pad - silver
Price £ R.R.P.	110.00	150.00	136.00	178.00

Model No.	21800000002	21713601150	24200000070	4010005044
General Description	BTS75 Blind Closer - silver	RTS80 Blind Closer	RTS85 Blind Closer	Pivotsafe Finger Protector single action mill finish
Price £ R.R.P.	112.00	148.00	90.00	124.00

Model No.	4010005045	4010005058	4010005046	4010005047
General Description	Pivotsafe Finger Protector single action SA finish	Pivotsafe Finger Protector single action BA finish	Hingesafe Finger Protector - white	Hingesafe Finger Protector - brown
Price £ R.R.P.	158.00	210.00	66.00	80.00

Model No.	4010005048	F-Type-Int-Gla	F-Type-Int-Met	F-Type-Ext-Gla
General Description	Hingesafe Finger Protector - black	F Type Barrier internal glass infill	F Type Barrier internal metal infill	F Type Barrier external glass infill
Price £ R.R.P.	80.00	500.00	500.00	730.00

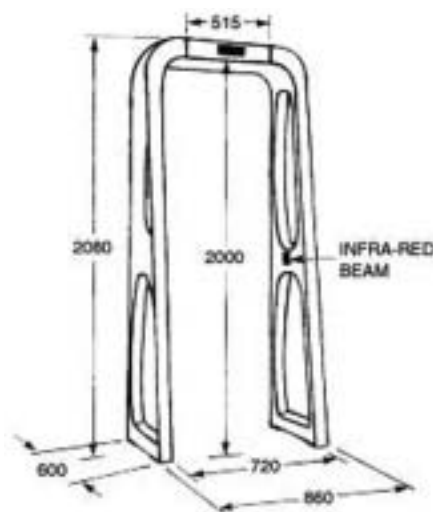
Model No.	F-Type-Ext-Met
General Description	F Type Barrier external metal infill
Price £ R.R.P.	730.00

Walk Through Metal Detector

Walk Through Metal Detector

Model No.

CMDP-2100



General Description

The CMDP-2100 Walk Through Metal Detector was designed as a quality security detector with most of the features of more expensive units. The unit incorporates a detector coil and infrared photocell in each side. When a preset amount of metal passing through the unit is exceeded an audio alarm is given. In addition, a set of voltage- free contacts is provided to actuate a remote alarm, or lock a turnstile, etc. The unit includes power and fault indication. The detector frame is constructed from fibreglass and has a 3-part design for easy assembly and transportation. This unit is robust and durable and will not deteriorate with time. It is light and can be easily manoeuvred by one person. The attractive modern shape incorporates open sides, which minimises the feeling of being confined. Mounting holes can be provided on request. Five metres of mains supply cable is supplied as standard, entering the unit from roof level.

Features

- Bi-directional operation
- Mass of metal indicator (optional)
- Detects ferrous and non-ferrous metals
- Free standing
- Durable fibreglass construction
- Auto-balance
- Infra-red photo cell
- Interlocking relay
- Adjustable sensitivity

Function Programs

- Airports
- Schools
- Public buildings
- Law courts
- Prisons
- Night clubs
- Industrial premises
- Banks

Price £ R.R.P.

5,990.00

Bewator's Power Supply Range has now been extended to include a greater range of units to better suit your access control installation.



- Comprehensive range
- 12V DC PSUs from 1 ampere to 5 amperes
- 24V DC PSUs now included
- Protect your system via battery backup

Power Supply Units

Power Supply Units

Model No.	TA12DCR	BA112	BA222
			
General Description	12V regulated PSU at 1.5 amperes	12V battery backed PSU at 1 ampere. Battery not included	12V battery backed PSU at 2 amperes. Battery not included
Price £ R.R.P.	44.00	38.00	67.00

Model No.	BA333	BA212	BA242
			
General Description	12V battery backed PSU at 3 amperes. Battery not included	12V battery backed PSU at 5 amperes. Battery not included	24V battery backed PSU at 2 amperes. Takes 2 x 7 amperes batteries, not included
Price £ R.R.P.	86.00	190.00	160.00

Model No.	BA245	BA245BM	B125
			
General Description	24V battery backed PSU at 5 amperes. Takes 2 x 7 amperes batteries, not included	24V battery backed PSU at 5 amperes, with Battery Monitoring. Takes 2 x 7 amperes batteries, not included	12V battery at 7 amperes, hour sealed lead acid
Price £ R.R.P.	180.00	215.00	20.00

To compliment its Entro and Granta Video Badging packages Bewator can now offer the complete solution. In addition to these software and printer packages Bewator now offers Visitor Management software, Cameras, a comprehensive range of Printers and all their accessories, plus selection of card accessories such as cardholders and lanyards.



MAGICARD
Secure ID Card Printers



- A comprehensive range of Printers, from budget to double sided and a full selection of accessories
- Card accessories to meet almost any requirement

Video Badging Equipment

Video Badging Printers

Model No.	M9006-907	M9006-380
		
General Description	Magicard Tempo - Quality design made simple. Simply the best value for colour ID card printing. A quality dye-sublimation ID card printer at a great price. HoloKote card watermark printed using standard consumables at no extra cost. Incredibly easy to use with drop-in dye-film ribbon and hand-fed card loading. Compact and light (only 8 inches each side and 7 pounds). 1 year limited warranty	Magicard Alto - New low-cost, single-sided, edge-to-edge ID card printer from Magicard. Ideal for entry-level users. Utilises simple drop in dye-film cassette. Each printer comes with 2 years Ultra Cover warranty
Price £ R.R.P.	1,398.00	1,678.00

Model No.	M9006-749	M9006-745
		
General Description	Magicard Rio 2 Printer single sided printer. 20 seconds per card including download. USB & parallel interface. Drop in dye-film loading, auto dye-film detection and setup. 350 cards per ribbon. Bi-directional ports, flash EPROM, 2 years Ultra Cover Plus	Magicard Tango 2 Printer double-sided printer. 25 seconds per card including download. USB & parallel interface. Drop in dye-film loading, auto dye-film detection and setup. 300 cards per ribbon. Bi-directional ports, flash EPROM, 2 years Ultra Cover Plus
Price £ R.R.P.	3,290.00	4,490.00

Please note that Video Badging Printers are non-returnable and all warranty issues are covered directly by Magicard and the UltraCover Plus Extended Warranty

Video Badging Printers

Model No.	320-8000	320-8401
		
General Description	Datacard SP35 Printer - delivers an unbeatable combination of high performance and low cost for low-volume card programs. 2 year warranty	Datacard SP55 Duplex Printer - high-quality double-sided photo ID printer that elevates security programs to entirely new levels. 2 year warranty
Price £ R.R.P.	2,245.00	2,495.00

Accessories

Model No.	320-2500	320-4100
		
General Description	Zebra P310i Printer - an intelligent, reliable, single sided colour card printer with new convenient features for ease-of-use while producing superior quality printing at an affordable price.	Zebra P420i Printer - highly versatile, designed for high volume printing of dual-sided plastic cards in colour.
Price £ R.R.P.	2750.00	3,569.00

Video Badging Equipment

Video Badging Accessories & Print Ribbons

Model No.	TM1	PCX-PF2	M9005-751	M9005-758
				
General Description	TM1/YMCKO – Full Colour Ribbon for Magicard Tempo, 250 images	PCX-PF2 - Colour Ribbon for Magicard Alto - 2 x 50 card dispensers & 100 shot PF2 cassette	LCI/D YMCKO - Colour Ribbon for Magicard Rio & Tango, 350 images	LC8/D YMCKO - Colour Ribbon for Magicard Rio & Tango, 300 images
Price £ R.R.P.	90.00	58.00	124.00	146.00

Model No.	M9005-753	323-1008	323-1000	323-1001
				
General Description	LC3/D - Black Resin Ribbon for Magicard Rio & Tango, no overcoat, 1000 images	YMCKT - Colour Ribbon for Datacard Printers. 250 images with topcoat kit	YMCKT - Colour Ribbon for Datacard Printers. 500 images, includes cleaning supply	KT - Black Ribbon for Datacard Printers, inline topcoat kit, 1000 images
Price £ R.R.P.	12.00	116.00	198.00	164.00

Model No.	323-1002	318-1103	318-3809	318-3801
				
General Description	Black Ribbon kit - 1500 images for Datacard	YMCKO - Colour Ribbon for Zebra P310i Printer. 5 panel, 330 images	CMYKOK - Colour Ribbon for Zebra P420i Printer, 5 panel, 200 images	Black Ribbon - single colour ribbon for Zebra P330i & P420i Printers, 1000images
Price £ R.R.P.	25.00	128.00	64.00	15.00

Video Badging Accessories & Print Ribbons

Model No.	CK1	M9005-761
		
General Description	Cleaning Kits for Magicard Tempo and Alto printers. Consists of 5 T cards and 1 pen	Full Cleaning Kit for Magicard Rio and Tango Printers. Each kit comprises 10 cleaning cards, a pen for cleaning the printhead and set of 5 Tacky Cleaning Rollers
Price £ R.R.P.	14.00	58.00

Model No.	320-8200	320-8201	320-8202
			
General Description	Alcohol Cleaning Kit - for Datacard printers (10 pack)	Adhesive Cleaning Sleeve Kit - for Datacard printers (5 pack)	Cleaning Alcohol Pen - for Datacard printers (8 uses)
Price £ R.R.P.	7.00	15.00	7.00

Model No.	320-6000	318-3812
		
General Description	Adhesive Cleaning Rollers - for Zebra Printers (set of 5)	Premier Cleaning Kit - for Zebra Printers (25 swabs & 50 cleaning cards)
Price £ R.R.P.	36.00	70.00

Video Badging Equipment

Video Badging Cameras & Accessories

Model No.	312-2020	312-2007
		
General Description	CCD 151 Camera with Cables and Grabbing Board - High quality camera supplied with cables to allow full control through ID software (zoom, iris, brightness, white balance). Supplied complete with image grabbing board. Please note this camera cannot be controlled by our Granta system software	Logitech Quick Cam Camera - Good quality webcam, which can be connected directly to your PC for image capture. Please note this camera cannot be controlled by our Granta system software
Price £ R.R.P.	1,190.00	198.00
Model No.	312-2018	312-2004
		
General Description	USB Digital Camera - With this USB Webcam camera there is no need for an expensive capture board – take live pictures at 640x480 resolution using fix focus or disconnect and take up to 60 pictures before downloading to the PC. Please note this camera cannot be controlled by our Granta system software	Pan & Tilt Unit with remote control. Allows you to easily manoeuvre the camera without adjusting the tripod
Price £ R.R.P.	140.00	276.00
Model No.	312-2005	312-2006
		
General Description	Mini Tripod for camera. Will accommodate both camera and pan & tilt unit. Sits on desk or has extendable legs for floor standing	AC/DC Power Supply Unit for Pan & Tilt Unit
Price £ R.R.P.	80.00	24.00

Card Accessories

Model No.	327-4000	327-4004	327-4007	327-4009
				
General Description	Strap Clip with nylon cushion mechanism (per 100)	Strap Clip with coloured plastic clip (per 100)	Steel Chain Necklace, nickel free, 30" (per 100)	Steel Chain Necklace, nickel free, 36" (per 100)
Price £ R.R.P.	24.00	24.00	26.00	30.00

Model No.	327-4010	328-4200	328-4201	328-4202
				
General Description	White Plastic Necklace - 30" (per 100)	Cord Lanyard with dog clip, 32" (per 100)*	Cord Lanyard with spring clip, 32" (per 100)*	Breakaway Safety Lanyard - 32" (per 100)*
Price £ R.R.P.	32.00	58.00	64.00	54.00

* Lanyards are available in the following colours – Black, Navy Blue, Royal Blue, Dark Green, Red, White or Yellow
Please specify colour when ordering eg 328-400-Black

Model No.	328-3209	328-3210	328-3211	328-3212
				
General Description	Pre-Printed Breakaway Lanyard - Contractor (per 100)	Pre-Printed Breakaway Lanyard - Visitor (per 100)	Pre-Printed Breakaway Lanyard - Staff (per 100)	Pre-Printed Breakaway Lanyard - NHS (per 100)
Price £ R.R.P.	114.00	114.00	114.00	114.00

Video Badging Equipment

Card Accessories

Model No.	328-3213	328-3214	329-4400	329-4401
				
General Description	Pre-Printed Breakaway Lanyard - Temporary (per 100)	Pre-Printed Breakaway Lanyard - Student (per 100)	Medium Duty Badge Reel with flexible hook, black (per 100)	Mini Reel with slide belt clip and vinyl strap, black (per 100)
Price £ R.R.P.	114.00	114.00	144.00	130.00

Model No.	329-4402	329-4403	329-4405	331-5700
				
General Description	Cardkeep YO-YO Badgeholder with retractable card (per 100) *	Heavy Duty Badge Reel with strap or keyring, chrome (per 100)	Heavy Duty Lockable Badge Reel with strap or keyring, chrome (per 100)	Flexible PVC Badgeholder - 100x70mm (per 100) **
Price £ R.R.P.	270.00	210.00	380.00	20.00

*Cardkeep YO-YOs are available in the following colours – Black, Blue or White.
Please specify colour when ordering eg 329-4402-Black

**Flexible PVC Badgeholders are available in the following colours – Clear, Black, Blue, Green, Red or Yellow
Please specify colour when ordering eg 331-5700-Black



Card Accessories

Model No.	330-5500	330-5501	330-553
			
General Description	Badgeholder - open faced, rigid, horizontal (per 100)*	Badgeholder - open faced, rigid, vertical (per 100)*	Badgeholder - clear enclosed with thumb slot, horizontal (per 100)
Price £ R.R.P.	15.00	15.00	54.00

*Badgeholders are available in the following colours – Black, Blue, Clear, Green, Grey, Red, White, or Yellow
Please specify colour when ordering eg 330-5500-Black

Model No.	330-5504	330-5505-H	330-5505-V
			
General Description	Badgeholder - clear enclosed with thumb slot, vertical (per 100)	Badgeholder - clear badge buddy, enclosed, horizontal (per 100)	Badgeholder - clear badge buddy, enclosed, vertical (per 100)
Price £ R.R.P.	54.00	110.00	110.00

Model No.	336-8002	336-8025	CR80M
			
General Description	Self Adhesive White Cards Overlays - 480 micron (per 100)	Self Adhesive White Cards Overlays - 320 micron (per 100)	Blank Magnetic Stripe Card - Suitable for Photo ID, Factory encoded. Supplied sequentially (per 100)
Price £ R.R.P.	76.00	46.00	120.00

Video Badging Equipment

Visitor Management Systems

Model No.

345-1008



General Description

Avery Visitor Management System is a simple solution, which will improve the professional management and quality of your visitors' identification. It is a complete electronic visitor management system delivering cost-effective colour visitor ID badges. It will enhance your company's professional image and the welcome that you offer your visitors. System is supplied complete with a camera, barcode scanner and starter kit

Features

User-friendly, Windows based software
User-definable badge design
Password protection for users
Fast badge printing via inkjet or laser
User definable data entry fields
Advanced pre-booking of visitors

Bar code scan in and out
Emergency report facility
Standard and customised reports
Unique badge media for temporary and permanent ID cards
Networkable for multiple reception and buildings

Price £ R.R.P.

1,650.00

Model No.

345-1001

345-1000

345-1003



General Description

Name Badges for Inkjet Printers With slot for clip. 2 sided white inkjet 85X60mm. 400 badges per pack

Name Badges for Laser Printers with slot for clip. 2 sided white for use with laser printers. 85X60mm. 500 badges per pack

Plastic Card and Clear Media for producing photo ID cards. 1-sided clear, inkjet 85x54, corner 3mm. 1 pack contains material for 25 cards.

Price £ R.R.P.

96.00

96.00

40.00

Video Control Systems

Drawing from the internationally recognised Siemens, Molynx and Videmech technologies, Bewator offers one of the most comprehensive ranges of dome cameras, bodied cameras, lenses, digital video management systems, matrix systems, pan & tilt heads, housings and accessories.

Whether you specify, integrate or install security systems, you need solutions that are flexible enough to meet your requirements of today, whilst allowing for systems to be expanded or upgraded at a later date.

Bewator and Siemens Video Control products are designed with your requirements in mind and will help you get the best out of your Security System



Video Control



Protected by Security systems from Siemens



A modern world is inconceivable without strong security systems in place. Our need for security impacts every part of modern life. Public and commercial sector decision makers are called upon to guarantee maximum security without infringing unduly on personal freedom. Whether it is the entrance to your building or office premises, or even your bank or IT room, Access Control, Video Surveillance and Intruder detection systems from Siemens offer the greatest level of security. Combined with the highest quality of service, we are your security partner for today, tomorrow and the years to come....

www.siemens.com/securityandsafety

Building Technologies

SIEMENS

Camera Equipment and Hardware

Bewator and Siemens can now offers an extensive range of domes, cameras, lenses, pan & tilts and housings. The range including the innovative Solaris™ dome, day-night Domes and vandal resistant domes

We also have a range of cameras and lenses to compliment your security installation, from colour, day-night, Varifocal to CMOS PIXEM™ cameras. In addition our pan & tilts and housings enable you to provide a total control solution



Surveillance Domes	173
Solaris	174
Solaris Accessories	175
Fixed	178
Vandal Resistant	179
Mounts & Accessories	180
Cameras	181
Colour	182
Day-Night	185
Mounts & Accessories	187
Lenses	189
Fixed Focal	190
Varifocal	192
Day-Night Varifocal & Zoom	193
Pan & Tilt Heads	195
Medium Duty P25	196
Brackets & Accessories	199
Camera Housings	201
Compact Connoisseur	202
Super Connoisseur	204
Siemens Housings	205
Brackets & Accessories	206



Does your video system see Everything?

Bewator, a Siemens Business offers one of the most comprehensive range of domes, cameras, digital video management systems, matrix systems, pan & tilt heads, housings and accessories.

Whether you specify, integrate or install security systems, you need solutions that are flexible enough to meet your requirements of today, whilst allowing for systems to be expanded or upgraded at a later date.

For Further information please contact us on 0871 386 0835



BEWATOR

A Siemens Business

Surveillance Domes

Our Dome Camera range covers fixed and vandal resistant domes and also the Solaris high speed dome, offering you a leap forward in dome technology. Breaking away from commonly available domes on the market the Solaris dome offers a level of accuracy and speed never experienced before. With Solaris, you can utilise your security system to the full.



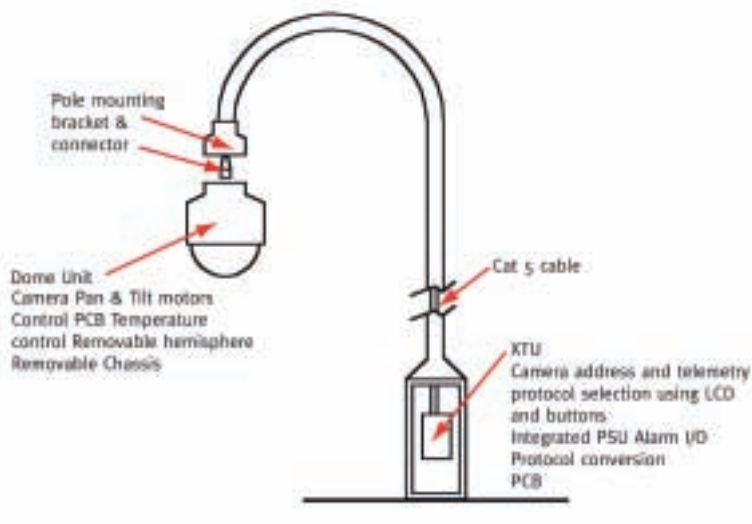
- Fixed Domes
- Fixed Domes with Varifocal Lenses
- Vandal Resistant Fixed Domes
- Fully Functional Speed Domes

Surveillance Domes

Solaris Dome

Model No.

CCDS1415-ST/DN/DNX



General Description

Solaris Colour Dome Camera, IP67, dynamic privacy masking, smoked hemisphere, c/w HiRes Sony EXview colour camera 0.05 lux, 18x or 26x optical zoom (12x digital), Integral Multi-Protocol Telemetry Receiver (coax and twisted pair operation), video launch amp, colour/mono options available.

Fully functional Solaris Domes include an External Termination Unit (XTU) with integral power supply (110-230Vac input) and a pre-wired 10m long CAT5 cable for connecting the dome head to the XTU

Model Options

CCDS1415-ST	– 18x zoom Colour Dome Camera
CCDS1415-DN	– 18x zoom Colour/Mono Dome Camera
CCDS1415-DNX	– 26x zoom Colour/Mono Dome Camera

Camera Features

CCDS1415-ST	– Sony EXview Colour Camera, 4.1 to 73.8 (F1.4 to F3) Focal Length, Colour 0.5 LUX, 18x Optical/12x Digital Zoom
CCDS1415-DN	– Sony EXview Colour/Mono Camera, 4.1 to 73.8 (F1.4 to F3) Focal Length, Colour 0.5 LUX and Mono 0.01 LUX, 18x Optical/12 Digital Zoom
CCDS1415-DNX	– Sony EXview Colour/Mono Camera, 2.5 to 91 (F1.6 to F3.8) Focal Length, Colour 0.5 LUX and Mono 0.01 LUX, 26x Optical/12 Digital Zoom

System Features

Pan Speed – 360/sec (presets)	Protocols: Molynx C and D type,
99 Preset Tours	Siemens CCDA, Philips, Molynx
4 Programmable Patterns	PC-CON, Ernitec Erna, Pelco D,
24 Privacy Zones	Pelco P, Bosch, Vicon RS485,
Telemetry via Coax or RS485	VCL, Videmech Universal,
Alarm Inputs/Outputs – 7 N/O or N/C and 1 tamper	Photon Surcha

Colour

White

Environmental

IP67

Temperature

-10 to 40°C. -20°C after unit has been powered for 3 hours

Electrical

110 to 230 Vac Head Unit voltage 18-24Vdc @ 24Amp supplied from the XTU

Mounting

Soffit/ wall/pole, recessed ceiling, swan neck, pendant (1.2m)

Price £ R.R.P.

CCDS1415-ST	1,559.00
CCDS1415-DN	1,899.00
CCDS1415-DNX	1,965.00

Surveillance Domes

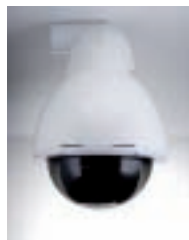
Solaris Dome Accessories

Model No.	CCDS1415-RTU
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General Description	Solaris Remote Telemetry Unit. Comprising local power supply for dome head and CAT5 cable interconnection. Enables XTU to be sited up to 300m away from the dome head with the interconnection between RTU and XTU made via CAT5 cable. 110-230Vac input
Colour	Cream
Environmental	Internal or External
Temperature	-10 to 40°C
Electrical	110 to 230 Vac
Price £ R.R.P.	295.00

Model No.	CCDS1415-DH	CCDS1415-CH
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General Description	Dummy Dome Camera Housing, IP67, smoked hemisphere, no camera or XTU included	Dome Camera Housing suitable for mounting a fixed camera, IP67, smoked hemisphere, no camera or XTU included
Colour	White	White
Environmental	IP67	IP67
Temperature	-10 to 40°C	-10 to 40°C
Voltage	N/A	N/A
Mounting	Soffit/ wall/pole, recessed ceiling, swan neck, pendant (1.2m)	Soffit/ wall/pole, recessed ceiling, swan neck, pendant (1.2m)
Price £ R.R.P.	207.00	207.00

Surveillance Domes

Solaris Dome Accessories

Model No.	CCDS1415-WHC	CCDS1415-BHC
		
General Description	White Painted Aluminium Custom Cover Kit for Solaris. Fits over dome head changing its shape profile and with air gap between cover and head providing additional sun shielding. Brackets not included	Black Painted Aluminium Custom Cover Kit for Solaris. Fits over dome head changing its shape profile. Air gap between cover and head provides a thermal barrier, to minimise heat build up within the dome head caused by solar radiation absorption when installing black products outdoors. Brackets not included
Colour	White	Black
Environmental	IP67	IP67
Temperature	-10 to 40°C	-10 to 40°C
Price £ R.R.P.	210.00	210.00

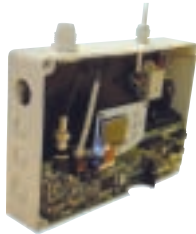
Model No.	CCDS1415-NHS	CCDS1415-SS
		
General Description	Unpainted Aluminium Custom Cover Kit for Solaris. Fits over dome head changing its shape profile. Can be painted by installer to blend in with the dome's surroundings. Brackets not included	White Painted Aluminium Sunshield / Rain Brim for Solaris. Fits onto dome head to provide additional protection for hemisphere from bright sun and rain. Brackets not included
Colour	Unpainted	White
Environmental	IP67	IP67
Temperature	-10 to 40°C	-10 to 40°C
Price £ R.R.P.	210.00	66.00

Surveillance Domes

Solaris Dome Accessories

Model No.	CCDS1415-CMA	CCDS1415-WM	CCDS1415-PM
			
General Description	Bracket Corner Adaptor for CCDS1415-WM, RAL9010 White	Wall / Pole / Soffit / Mount Bracket for Solaris	Pendant Mount Bracket for Solaris, 1.2m long
Price £ R.R.P.	55.00	75.00	75.00

Model No.	CCDS1415-SN	CCDS1415-FM	CCDS1415-PM
			
General Description	Swan Neck Bracket for Solaris	Recessed Ceiling Mounting Kit for Solaris	Parapet Mount Adaptor for CCDS1415-WM, RAL9010 white powder coated
Price £ R.R.P.	85.00	75.00	27.00

Model No.	CCDS1415-BC	CCDS1415-BS	CCDS1415-XTU
			
General Description	Clear Hemisphere replacement for Solaris	Smoked Hemisphere for Solaris	Spare XTU. Cable termination and power supply for Solaris
Price £ R.R.P.	106.00	106.00	424.00

Surveillance Domes

Fixed Domes with and without Varifocal Lenses

Model No.	CFFC1310-LP	CFVC1415-LP	CFVS1415-LP
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General Description	Standard Resolution Colour Fixed Dome	High Resolution Colour Fixed Dome	High Resolution Day-Night Colour Fixed Dome
Image Sensor	1/3" CCD	1/4" CCD	1/4" CCD
Horizontal Resolution	330 TV lines	480 TV Lines	480 TV Lines
Minimum Illumination (@50IRE)	0.31 Lux	0.6 Lux	0.34 Lux Colour 0.15 Lux Mono
S/N Ratio	>50dB	>50dB	>50dB
Electronic Shutter (AES)	1/50 to 1/100Ks	Automatic: 1/50 to 1/100Ks	Automatic: 1/50 to 1/100Ks
Backlight Compensation	ON or OFF (software allows 6 zones)	ON or OFF (software allows 6 zones)	ON or OFF (software allows 6 zones)
Gain Control	AGC ON or OFF	AGC ON or OFF	AGC ON or OFF
White Balance	Automatic	Automatic	Automatic
Bubble Type	Clear	Tinted	Tinted
Video Output Format	Pal, 625 Lines	Pal, 625 Lines	Pal, 625 Lines
Video Output Signal (composite)	1Vpp, 75 Ohm, BNC	1Vpp, 75 Ohm, BNC	1Vpp, 75 Ohm, BNC
Local Service Monitor Output	Yes (cable included)	Yes (cable included)	Yes (cable included)
Lens Focal Length	3.7mm	2.8 – 5.8mm	2.8 – 5.8mm
Lens Focus Type	Fixed	Varifocal	Varifocal
Lens Max Relative Aperture	F2.0	F1.4 – 360	F1.4 – 360
Lens Iris	Fixed	Direct Drive Auto-Iris	Direct Drive Auto-Iris
Horizontal Angle View	70°	38.2 - 76.7°	35.9 – 74.7°
Min Object Distance	0.2m	0.2m	0.2m
Electrical	12Vdc/24Vac	12Vdc/24Vac	12Vdc/24Vac
Weight	0.29Kg	0.29Kg	0.29Kg
Dimensions H x W (mm)	112 x 97.5	112 x 97.5	112 x 97.5
Price £ R.R.P.	166.75	240.25	323.25

Surveillance Domes

Vandal Resistant Fixed Domes

Model No.	CVVC1315-LP	CVVS1415-LP
		
General Description	High Resolution Colour Vandal Resistant Fixed Dome	High Resolution Day-Night Colour Vandal Resistant Fixed Dome
Image Sensor	1/3" CCD	1/4" CCD
Horizontal Resolution	480 TV lines	480 TV Lines
Minimum Illumination (@50IRE)	0.47 Lux	0.34 Lux Colour 0.15 Lux Mono
S/N Ratio	>50dB	>50dB
Electronic Shutter (AES)	1 Automatic: 1/50 to 1/100Ks	1 Automatic: 1/50 to 1/100Ks
Backlight Compensation	ON or OFF (software allows 6 zones)	ON or OFF (software allows 6 zones)
Gain Control	AGC ON or OFF	AGC ON or OFF
White Balance	Automatic	Automatic
Bubble Type	Tinted	Tinted
Video Output Format	PAL, 625 Lines	PAL, 625 Lines
Video Output Signal (composite)	1Vpp, 75 Ohm, BNC	1Vpp, 75 Ohm, BNC
Local Service Monitor Output	Yes (cable included)	Yes (cable included)
Lens Focal Length	2.8 - 5.8mm	2.8 - 5.8mm
Lens Focus Type	Varifocal	Varifocal
Lens Max Relative Aperture	F1.4 to 360	F1.4 to 360
Lens Iris	Direct Drive Auto-Iris	Direct Drive Auto-Iris
Horizontal Angle View	36 – 91°	35.9 – 74.7°
Min Object Distance	0.2m	0.2m
Electrical	12Vdc/24Vac	12Vdc/24Vac
Dimensions H x W (mm)	140 x 112	140 x 112
Price £ R.R.P.	326.25	393.25

Surveillance Domes

Dome Mounts and Accessories

Model No.	CFVA-IP	CVVA-1P	CVVA-FMIP
			
General Description	MJPEG IP Base for Internal Fixed dome cameras	MJPEG IP Base for Vandal Resistant and Internal Fixed dome cameras	IP BASE wall mounting Bracket
Price £ R.R.P.	380.25	450.25	70.25

Model No.	CFFA-TD	CVVA-FMK	CVVA-WB	CFFA-CD
				
General Description	Tinted Bubble for Indoor dome cameras	Flush Mounting Kit for Vandal Resistant dome cameras	Wall Mounting Bracket for Vandal Resistant dome cameras	Clear Bubble for Indoor dome cameras
Price £ R.R.P.	9.75	80.00	57.75	9.75

Model No.	CVVA-CD	WJB-12	CWCB210-310	CCBC210-310
				
General Description	Clear Bubble for Vandal Resistant camera domes	Weatherproof Junction Box , IP65, 12Vdc	Wall Camera Bracket , 210-310mm, silver	Ceiling Bracket , 210-310mm, silver
Price £ R.R.P.	16.25	256.75	25.00	30.25

Reliable security cameras, play a key role in monitoring security both inside and around buildings – cameras play a key role in monitoring security both internally and externally - in a modern security system the camera performance is crucial. As with all Siemens products, the latest manufacturing techniques have been used to produce cameras with exceptional build quality. Combine this with our high performing electronics inside the camera, we ensure high-quality professional pictures around the clock, 24 hours a day. Our extensive Camera range covers Colour and Day-Night, Cameras complete with Housing and Lens and high quality CMOS PIXIM™ Cameras



- Colour Cameras
- Day-Night Cameras
- Cameras complete with Housing and Lens
- CMOS Ultra Wide Dynamic Colour Camera with PIXIM™ technology

Cameras

Colour Cameras

Model No.	CCBC1225-LP	CCBC1325-LP/MP	CCBC1337-LP/MP
			
General Description	1/2" High Resolution Colour Camera	1/3" High Resolution Colour Camera	1/3" Super High Resolution DSP Colour Camera
Television Standard	625 Lines, 50 Fields, 50Hz (vertically), 15.625 Hz (horizontally)	625 Lines, 50 Fields, 50Hz (vertically), 15.625 Hz (horizontally)	625 Lines, 50 Fields, 50Hz (vertically), 15.625 Hz (horizontally)
Image Sensor	1/2" interline CCD	1/3" interline CCD	1/3" interline CCD
Horizontal Resolution	>450 Lines	480 Lines	540 Lines
Minimum Illumination (@50IRE)	0.11 Lux	0.6 Lux	0.5 Lux
Electronic Shutter (AES)	Automatic: 8s to 1/30000s	Manual: 1/50s to 1/10000s Automatic: 1/50s to 1/100000s	Manual: 1/50s Automatic: 1/50s to 1/100000s
Backlight Compensation	Backlight compensation with programmable grid (49 zone)	6 zones	6 zones
Video Output	1 Vpp composite (75 Ohm), BNC	1 Vpp composite (75 Ohm), BNC	FBAS: 1 Vpp composite (75 Ohm), BNC Y/C: Y:1 VPP/C:0.3 Vpp (75 Ohm), 4 pin socket
Automatic Gain Control (AGC)	Auto or manually adjustable, max 39dB	5 max levels: Off to 38dB	Normal / Turbo up to 30dB
Signal to Noise Ratio	>50dB	>50dB	>50dB
Synchronisation	Internal: with crystal External: mains, video or HD/VD synchronisation	Internal: with crystal External: mains	Internal: with crystal External: Line Lock (auto detect)
Electrical	12Vdc / 24Vdc	CCBC1325-LP: 12Vdc / 24Vac CCBC1325-MP: 90 – 260Vac	CCBC1337-LP: 12Vdc / 24Vac CCBC1337-MP: 100 – 240Vac
Dimensions H x W x D (mm)	60 x 74 x 125	58 x 70 x 117	63 x 72 x 122
Price £ R.R.P.	515.75	CCBC1325-LP 196.25 CCBC1325-MP 196.25	CCBC1337-LP 192.25 CCBC1337-MP 192.25

Colour Cameras

Model No.	CCBC1345-LP/MP	CCWC1345-LX/MX	VCD320-12
			
General Description	1/3" High Resolution Colour Camera	1/3" CMOS Ultra Wide Dynamic PIXIM™ Colour Camera	1/3" CCD Camera combined with 12m Professional PIR Detector
Television Standard	625 Lines, 50 Fields, 50Hz (vertically), 15,625 Hz (horizontally)	PAL: 2:1 interlace, V: 50Hz, H: 15,625Hz NTSC: 2:1 interlace, V: 50Hz, H: 15,734Hz	PAL: 2:1 interlace
Image Sensor	1/3 " interline CCD	1/3 " CMOS, PIXIM™ D2500, 720x540 active pixels	1/3 " interline CCD
Horizontal Resolution	480 Lines	>500 Lines	380 Lines
Minimum Illumination (@50IRE)	0.6 Lux	0.5 Lux	1.2 Lux
Electronic Shutter (AES)	On - Automatic: 1/60s to 1/1000000s Off – 1/60s	Slow Shutter - 2X, 4X, 8X, 16X	Automatic: 1/50s to 1/1000000s
Backlight Compensation	On / Off	6 zones	Automatic
Video Output	1 Vpp composite (75 Ohm), BNC	BNC Composite Y/C output Twisted pair	1 Vpp composite (75 Ohm)
Automatic Gain Control (AGC)	Max 38dB	Selectable: 0 to 30dB	Automatic
Signal to Noise Ratio	>50dB	>50dB	>45dB
Synchronisation	Internal: with crystal External: Line Lock	Internal / Line Lock selectable (AC only)	Internal: with crystal External: Line Lock (auto detect)
Electrical	CCBC1345-LP: 12Vdc / 24Vdc CCBC1345-MP: 100-240Vac	CCWC1345-LX: 12Vdc / 24Vac CCWC1345-MX: 100-240Vac	12Vdc
PIR Functionality	N/A	N/A	12m detection range, programmable NC or NO, Pet immunity up to 10 kg (with pet clip)
Dimensions H x W x D (mm)	63 x 72 x 122	63 x 72 x 122	115 x 50 x 65
Price £ R.R.P.	CCBC1345-LP 150.25 CCBC1345-MP 150.25	CCWC1345-LX 497.00 CCWC1345-MX 497.00	205.25

Cameras

Colour Cameras

Model No.	CCAC1415-LPI	CCAC1415-LPO
		
General Description	High Resolution, Autofocus Colour Camera with 22x Optical Zoom	High Resolution, Autofocus Colour Camera with 22x Optical Zoom in Weatherproof Housing
Television Standard	2:1 interlace, 59.94Hz (vertically), 15.734 Hz (horizontally)	2:1 interlace, 59.94Hz (vertically), 15.734 Hz (horizontally)
Image Sensor	1/4" Sony Super HAD CCD	1/4" Sony Super HAD CCD
Horizontal Resolution	480 Lines	480 Lines
Minimum Illumination (@50IRE)	1.0 Lux Slow shutter: 0.02 Lux	1.0 Lux Slow shutter: 0.02 Lux
Electronic Shutter (AES)	Normal: 1/10000s	Normal: 1/10000s
Zoom Ratio	Optical zoom x22, digital zoom x11 (video AF)	Optical zoom x22, digital zoom x11 (video AF)
Focal Length	F=3.9 – 85.8mm	F=3.9 – 85.8mm
Backlight Compensation	Off / BLC1 / BLC2 / BLC3 / BLC4 / BLC5 / BLC6 / Level	Off / BLC1 / BLC2 / BLC3 / BLC4 / BLC5 / BLC6 / Level
Video Output	1 Vpp composite (75 Ohm), BNC	1 Vpp composite (75 Ohm), BNC
Automatic Gain Control (AGC)	On / Off, max 30dB	On / Off, max 30dB
Signal to Noise Ratio	52dB (AGC off)	52dB (AGC off)
Synchronisation	Internal / External (line lock)	Internal / External (line lock)
Electrical	12Vdc / 24Vac	12Vdc / 24Vac
Dimensions H x W x D (mm)	74 x 72 x 121.4	74 x 72 x 121.4 (excluding housing)
Price £ R.R.P.	350.00	499.00

Day-Night Cameras

Model No.	CCBS1225-LP	CCBS1337-LP/MP	CCWC1335-LP/MP
			
General Description	1/2" High Resolution Day –Night DSP Colour Camera	1/3" High Resolution Day-Night Colour DSP Camera	1/3" High Resolution Extended Dynamic DSP Day-Night Colour Camera
Television Standard	625 Lines, 50 Fields, 50Hz (vertically), 15.625 Hz (horizontally)	625 Lines, 50 Fields, 50Hz (vertically), 15.625 Hz (horizontally)	625 Lines, 50 Fields, 50Hz (vertically), 15.625 Hz (horizontally)
Image Sensor	1/2 " interline CCD	1/3" interline CCD	1/3" interline CCD
Horizontal Resolution	>450 Lines	540 Lines	>480 Lines
Minimum Illumination (@50IRE)	0.008 Lux monochrome 0.045 Lux colour	0.08 Lux monochrome 0.4 Lux colour	0.08 Lux monochrome 0.4 Lux colour
Electronic Shutter (AES)	Automatic: 8s to 1/30000s	Manual:1/50s to 1/10000s Automatic: 1/50s to 1/100000s	Manual:1/50s to 1/10000s Automatic: 1/50s to 1/100000s
Backlight Compensation	Backlight compensation with programmable grid (49 zone)	6 zones	Automatic
Video Output	1 Vpp composite (75 Ohm), BNC	FBAS: 1 Vpp composite (75 Ohm), BNC Y/C: Y:1 VPP/C:0,3 Vpp (75 Ohm), 4 pin socket	FBAS: 1 Vpp composite (75 Ohm), BNC Y/C: Y:1 VPP/C:0,3 Vpp (75 Ohm), 4 pin socket
Automatic Gain Control (AGC)	Auto or manually adjustable, max 39dB	Selectable (off, normal, turbo) up to 30dB	Normal / Turbo up to 30dB
Signal to Noise Ratio	>51dB	>50dB	>50dB
Synchronisation	Internal: with crystal External: mains, video or HD/VD synchronisation	Internal: with crystal External: Line Lock (auto detect)	Internal: with crystal External: Line Lock (auto detect)
Electrical	12Vdc / 24Vac	CCBS1337-LP: 12Vdc / 24Vac CCBS1337-MP: 100 – 240Vac	CCWC1335-LP: 12Vdc / 24Vac CCWC1335-MP: 100 – 240Vac
Dimensions H x W x D (mm)	60 x 74 x 125	63 x 72 x 122	63 x 72 x 122
Price £ R.R.P.	656.25	CCBS1337-LP 349.25 CCBS1337-MP 354.50	CCWC1335-LP 395.25 CCWC1335-MP 395.25

Cameras

Day-Night Cameras

Model No.	CCBS1345-LP/MP	CCAS1415-LPO	CCIS1337-LP
			
General Description	1/3" High Resolution Dip-Switch Day-Night Colour Camera	High Resolution, Autofocus Day-Night Colour Camera with 22x Optical Zoom in Weatherproof Housing	1/3" Super High Resolution Indoor Day-Night IP Colour Camera
Television Standard	625 Lines, 50 Fields, 50Hz (vertically), 15.625 Hz (horizontally)	2:1 interlace, 50Hz (vertically), 15.625Hz (horizontally)	2:1 interlace, 50Hz (vertically), 15.625Hz (horizontally)
Image Sensor	1/3 " interline CCD	1/4" Sony Super HAD CCD	1/3 " Sony Exview CCD,
Horizontal Resolution	480 Lines colour 540 Lines monochrome	480 Lines	540 Lines colour 570 Lines monochrome
Minimum Illumination (@50IRE)	0.08 Lux monochrome 0.3 Lux colour	0.5 Lux @ F=1.6 0.01 Lux slow shutter speed	0.08 monochrome 0.4 Lux colour
Electronic Shutter (AES)	On - Automatic: 1/50s to 1/100000s Off – 1/50s	Normal: 1/10000s	Manual:1/50s to 1/10000s Automatic: 1/50s to 1/100000s
Zoom Ratio	N/A	Optical zoom x22, digital zoom x11 (video AF)	N/A
Focal Length	N/A	F=3.9 – 85.8mm	N/A
Network Connection	N/A	N/A	IP address configurable via ARP, BBOTP/DHCP, connection RJ45 Ethernet
Backlight Compensation	On / Off	Off / BLC1 / BLC2 / BLC3 / BLC4 / BLC5 / BLC6 / Level or 6 Zones	6 zones
Video Output	FBAS: 1 Vpp composite (75 Ohm), BNC Twisted Pair	1 Vpp composite (75 Ohm), BNC	Y/C: Y1.0 Vpp / C:0.3 Vpp (75ohm), 4 pin Mini DIN
Automatic Gain Control (AGC)	Max 30dB	On / Off, max 30dB	Normal / Turbo up to 30dB
Signal to Noise Ratio	>50dB	>52dB	>50dB
Synchronisation	Internal: with crystal External: line lock	Internal / External: line lock	Internal: with crystal External: Line Lock (AC only)
Electrical	CCBS1345-LP: 12Vdc / 24Vac CCBS1345-MP: 100- 240Vac	12Vdc / 24Vac	12Vdc / 24Vac
Dimensions H x W x D (mm)	63 x 72 x 122	74 x 72 x 121.4 (excluding housing)	63 x 72 x 122
Price £ R.R.P.	CCBS1345-LP 265.00 CCBS1345-MP 265.00	545.00	655.50

Camera Mounts & Accessories

Model No.	CAB1420	CAB1920
		
General Description	Universal Camera Mount, black and silver, 140mm	Universal Camera Mount, black and silver, 190mm
Price £ R.R.P.	11.25	11.75

Model No.	IRUM30	IRUMC104
		
General Description	Ceiling Mount Bracket for VCD320-12	Pet Clip for VCD320-12 (pack of 4)
Price £ R.R.P.	11.25	3.25





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In a modern security system the camera and lens performance is crucial and so Bewator's Video Control range now includes an extensive selection of cameras and lenses. Whether you want Fixed Focal, Varicfocal, Day-Night or Zoom we have a solution for you to ensure high quality pictures around the clock.

For further information please contact our Marketing team on 0871 386 0840 or email us at marketing@bewator.co.uk

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 **BEWATOR**
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Our CCTV portfolio now includes an extensive range of Siemens Lenses.

Ranging from Fixed Focal, Varifocal, Day-Night and Zoom, all Siemens Lenses are professional, metal bodied specifically designed for use in security applications



- Fixed Focal Length Lenses
- Varifocal Length Lenses
- Day-Night Varifocal Length Lenses
- Zoom Lenses

Lenses

Fixed Focal Lenses

Model No.	CLFM1314/2.8	CLFD1314/2.8	CLFM1312/4	CLFD1312/4
				
General Description	1/3" Fixed Focus, 2.8mm, Manual, F1.4 Lens	1/3" Fixed Focus, 2.8mm, DD Auto Iris, F1.4 Lens	1/3" Fixed Focus, 4mm, Manual, F1.2 Lens	1/3" Fixed Focus, 4mm, DD Auto Iris, F1.2 Lens
Focus Type	Adjustable	Adjustable	Adjustable	Adjustable
Iris	Manual	DD Auto Iris	Manual	DD Auto Iris
Mount	CS	CS	CS	CS
Horizontal Angle of View	95.6°	95.6°	65.1°	65.1°
Dimensions D, W, L, A (mm)	30.0, - , 36.2, 4.0	29.0, 43.9, 36.2, 4.0	30.0, - , 33.8, 4.0	29.0, 43.9, 32.3, 4.0
Filter Thread	N/A	N/A	N/A	N/A
Drive Coil ($\pm 10\%$)	N/A	200 Ohm	N/A	200 Ohm
Damp Coil ($\pm 10\%$)	N/A	700 Ohm	N/A	700 Ohm
Environment	-10 – 50°C	-10 – 50°C	-10 – 50°C	-10 – 50°C
Price £ R.R.P.	62.50	80.00	52.75	73.75

Model No.	CLFM1312/6	CLFD1312/6	CLFM1312/8	CLFD1312/8
				
General Description	1/3" Fixed Focus, 6mm, Manual, F1.2 Lens	1/3" Fixed Focus, 6mm, DD Auto Iris, F1.2 Lens	1/3" Fixed Focus, 8mm, Manual, F1.2 Lens	1/3" Fixed Focus, 8mm, DD Auto Iris, F1.2 Lens
Focus Type	Adjustable	Adjustable	Adjustable	Adjustable
Iris	Manual	DD Auto Iris	Manual	DD Auto Iris
Mount	CS	CS	CS	CS
Horizontal Angle of View	48.1°	48.1°	36.5°	36.5°
Dimensions D, W, L, A (mm)	28.0, - , 26.8, 4.0	32.0, 43.9, 29.5, 4.0	28.0, - , 26.8, 4.0	32.0, 43.9, 29.5, 4.0
Filter Thread	N/A	N/A	N/A	N/A
Drive Coil ($\pm 10\%$)	N/A	190 Ohm	N/A	190 Ohm
Damp Coil ($\pm 10\%$)	N/A	700 Ohm	N/A	700 Ohm
Environment	-10 – 50°C	-10 – 50°C	-10 – 50°C	-10 – 50°C
Price £ R.R.P.	51.50	76.50	49.25	67.75

Fixed Focal Lenses

Model No.	CLFM1212/12	CLFD1214/12	CLFM1316/16	CLFD1316/16
				
General Description	1/2" Fixed Focus, 12mm, Manual, F1.2 Lens	1/2" Fixed Focus, 12mm, DD Auto Iris, F1.2 Lens	1/3" Fixed Focus, 16mm, Manual, F1.6 Lens	1/3" Fixed Focus, 16mm, DD Auto Iris, F1.6 Lens
Focus Type	Adjustable	Adjustable	Adjustable	Adjustable
Iris	Manual	DD Auto Iris	Manual	DD Auto Iris
Mount	CS	CS	CS	CS
Horizontal Angle of View	29.7°	29.6°	17.6°	17.6°
Dimensions D, W, L, A (mm)	35.0, -, 34.5, 5.6	37.0, 52.0, 32.0, 4.0	28.0, -, 26.8, 4.0	32.0, 43.9, 29.5, 4.0
Filter Thread	M34.0 x 0.5	M30.5 x 0.5	N/A	N/A
Drive Coil (±%10)	N/A	190 Ohm	N/A	190 Ohm
Damp Coil (±%10)	N/A	1000 Ohm	N/A	700 Ohm
Environment	-10 – 50°C	-10 – 50°C	-10 – 50°C	-10 – 50°C
Price £ R.R.P.	60.50	111.50	48.25	71.25



Lenses

Varifocal Lenses

Model No.	CLVD1314/2.5-10	CLVD1314/3.5-8
		
General Description	1/3" Varifocal, 2.5-10mm, Aspherical, DD, F1.4 Lens	1/3" Varifocal, 3.5-8mm, Aspherical, DD, F1.4 Lens
Focus Type	Adjustable	Adjustable
Iris	DD Auto Iris	DD Auto Iris
Mount	CS	CS
Horizontal Angle of View	28.3-105.8°	35-73.8°
Dimensions D, W, L, A (mm)	42.0, 48.0, 60.0, 4.6	36.0, 47.2, 48.1, 4.4
Filter Thread	N/A	N/A
Environment	-10 – 50°C	-10 – 50°C
Price £ R.R.P.	72.00	60.25

Model No.	CLVD1325/5-50	CLVD1318/7-70
		
General Description	1/3" Varifocal, 5-50mm, Aspherical, DD, F1.4 Lens	1/3" Varifocal, 7-70mm, Aspherical, DD, F1.8 Lens
Focus Type	Adjustable	Adjustable
Iris	DD Auto Iris	DD Auto Iris
Mount	CS	CS
Horizontal Angle of View	5.5-53.6°	4.2-40.1°
Dimensions D, W, L, A (mm)	41.0, 53.9, 59.2, 4.0	48.0, 55.0, 82.2, 4.0
Filter Thread	N/A	M46 x 0.75
Environment	-10 – 50°C	-10 – 50°C
Price £ R.R.P.	118.00	154.25

Day-Night Varifocal Zoom Lenses

Model No.	CLVD1318/3.8	CLVD1318/2.8-11	CLVD1318/10-40
			
General Description	1/3" Varifocal, IR Corrected, 3.8mm, Aspherical, DD, F1.0 Lens	1/3" Varifocal, IR Corrected, 2.8-11mm, Aspherical, DD, F1.4 Lens	1/3" Varifocal, IR Corrected, 10-40mm, Aspherical, DD, F1.4 Lens
Focus Type	Adjustable	Adjustable	Adjustable
Iris	DD Auto Iris	DD Auto Iris	DD Auto Iris
Mount	CS	CS	CS
Horizontal Angle of View	36.2-90.8°	26.2-97.4°	7.0-27.5°
Dimensions D, W, L, A (mm)	33.0, 33.0, 40.2, 5.0	40.0, 40.0, 54.6, 5.0	38.7, 43.0, 67.0, 4.0
Filter Thread	N/A	N/A	N/A
Environment	-10 – 50°C	-10 – 50°C	-10 – 50°C
Price £ R.R.P.	82.25	112.25	134.25

Model No.	CLVD1218/4-12	CLVD1218/10-40	CLPD1312/6-72
			
General Description	1/2" Varifocal, IR Corrected, 4-12mm, Aspherical, DD, F1.2 Lens	1/2" Varifocal, IR Corrected, 10-40mm, Aspherical, DD, F1.4 Lens	1/3", Motor Zoom, 6-72mm, Potentiometers, DD, F1.2 Lens
Focus Type	Adjustable	Adjustable	Adjustable
Iris	DD Auto Iris	DD Auto Iris	DD Auto Iris
Mount	CS	CS	CS
Horizontal Angle of View	31.2-93.8°	9.2-37.5°	43.7-4.0°
Dimensions D, W, L, A (mm)	38.7, 52.6, 62.0, 4.0	38.7, 52.6, 62.0, 4.0	55.0, 84.5, 103.5, 4.0
Drive Coil (±%10)	N/A	N/A	190 Ohm
Damp Coil (±%10)	N/A	N/A	1150 Ohm
Focus Travel Time	N/A	N/A	2.5 seconds max
Zoom Travel Time	N/A	N/A	2 seconds max
Filter Thread	N/A	N/A	M43 x 0.74
Environment	-10 – 50°C	-10 – 50°C	-10 – 50°C
Price £ R.R.P.	123.00	134.25	525.25



Take off to new security heights

Bewator, A Siemens Business, is at the forefront of security technology, offering modular systems to fit the security requirements of ports, airports and other critical transit zones. The open architecture of Bewator security systems allows legacy systems to be expanded or upgraded easily, for a smooth transition towards networked systems and remote security management. With CCTV control and recording equipment responding to alarms triggered by Access, Fire or Intruder control devices, Bewator security products and systems offer the ultimate tools in alarm response and management, evidence recording and crime prevention.

As a result, cargo security is increased, and security investments maximised.

Cargo security by Bewator



BEWATOR

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Pan & Tilt Heads

The Bewator range of Pan & Tilt heads suits all types of video surveillance applications. With proven reliability and performance, there is a model to fit even the most demanding security requirements, without compromising usability, longevity or serviceability.

Many of our Pan & Tilt heads have been in service for more than 20 years and are still on active duty today



- Medium Duty, Heavy Duty and Specialised Pan & Tilt Heads available
- 'Over the Top' or 'Side Mount' configurations
- 24Vdc, 24Vac or 230Vac model options
- Presets and speed variants available

Pan & Tilt Heads

Medium Duty P25 Pan & Tilt Heads

Model No.	P25T-P	P25T-P/L
		
General Description	Medium Duty 16kg Pan & Tilt Head, 16kg rating, 'over the top' load configuration, with heavy duty presets, 6°/sec pan, 3°/sec tilt, heater, 230Vac, 50/60Hz, pre-wired and preset leads	Medium Duty 16kg Pan & Tilt Head, 16kg rating, 'over the top' load configuration, with heavy duty presets, 6°/sec pan, 3°/sec tilt, heater, 24Vac, 50/60Hz, pre-wired and preset leads
Colour	Painted polyester powdercoat RAL7032, leatherette full gloss – subject to change	Painted polyester powdercoat RAL7032, leatherette full gloss – subject to change
Pan Speed	6°/sec Driving torque 20Nm Holding torque 24Nm	6°/sec Driving torque 20Nm Holding torque 24Nm
Mount	3°/sec Driving torque 20Nm Holding torque 30Nm	3°/sec Driving torque 20Nm Holding torque 30Nm
Load Weight	16kg to 25kg	16kg to 25kg
Max Tilt Rotation	+20° to -90°	+20° to -90°
Presets	Standard	Standard
Rotation	365° ± 2°	365° ± 2°
Shock	30G max, packed	30G max, packed
Stall Protection	Permanent stall without damage	Permanent stall without damage
Backlash	< ± 0.1°	< ± 0.1°
Environmental	IP67	IP67
Temperature	-40 to 60°C	-40 to 60°C
Electrical	230Vac	24Vac
Dimensions D, W, L, A (mm)	221 x 184 x 252	221 x 184 x 252
Price £ R.R.P.	640.00	640.00

Pan & Tilt Heads

Medium Duty P25 Pan & Tilt Heads

Model No.	P25T/D	P25/D
		
General Description	Medium Duty 16kg Pan & Tilt Head, 16kg rating, 'over the top' load configuration, with heavy duty presets, 48°/sec pan, 24°/sec tilt, heater, 24Vdc, pre-wired and preset leads	Medium Duty 25kg Pan & Tilt Head, 25kg rating, 'side mount' load configuration, with heavy duty presets, 24°/sec pan, 12°/sec tilt, heater, 24Vdc, pre-wired and preset leads
Colour	Painted polyester powdercoat RAL7032, leatherette full gloss – subject to change	Painted polyester powdercoat RAL7032, leatherette full gloss – subject to change
Pan Speed	48°/sec Driving torque 15Nm Holding torque 24Nm	24°/sec Driving torque 35Nm Holding torque 40Nm
Mount	24°/sec Driving torque 20Nm Holding torque 30Nm	12°/sec Driving torque 20Nm Holding torque 30Nm
Load Weight	16kg to 25kg	25kg
Max Tilt Rotation	+20° to -90°	±90°
Presets	Standard	Standard
Rotation	365° ± 2°	365° ± 2°
Shock	30G max, packed	30G max, packed
Stall Protection	Permanent stall without damage	Permanent stall without damage
Backlash	< ± 0.1°	< ± 0.1°
Environmental	IP67	IP67
Temperature	-40 to 60°C	-40 to 60°C
Electrical	24Vdc	24Vdc
Dimensions D, W, L, A (mm)	221 x 184 x 252	221 x 184 x 252
Price £ R.R.P.	735.00	735.00

Video Control

Camera Equipment
and Hardware



Access Control - CCTV - Intrusion Detection.

You too can now benefit from an even more comprehensive product offering, precision designed technology and the renowned high quality of Bewator and Siemens products - Bewator has extended its existing range of Access Control and CCTV products and now brings to the UK market the latest range of Siemens monitors, fixed cameras and domes, digital solutions and intrusion detection products. It's all available from Bewator, and it's available NOW.

For more information, contact Bewator on: 0871 386 0841 or email sales@bewator.co.uk

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Introducing our new, extended range of Access control, CCTV and Intrusion Detection products.

Moving forward with Siemens

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Pan & Tilt Heads

Pan & Tilt Heads Brackets and Accessories

Model No.	P25-SMKIT	BP40	CCDS1415-CMA
			
General Description	Sidemount Platform Conversion Kit for use with P25 Heads – colour subject to change	Fixed Bracket for P25 Heads, 40kg rated, 460mm long, standard 4" pcd – colour subject to change	Corner Mount Adaptor for BP40 – colour subject to change
Price £ R.R.P.	53.00	55.00	55.00

Model No.	BCSo6	BCS12
		
General Description	Column Spacer , 6", 4" pcd mounting – unpainted	Column Spacer , 12", 4" pcd mounting – unpainted
Price £ R.R.P.	32.00	39.00

Model No.	P16-SCK	P12C-DC6	PT12DCFKIT
			
General Description	Safety Cable for P25 Heads	Spare DC Input Connector for P25 Heads	Spare DC Power Connector
Price £ R.R.P.	31.00	21.00	60.00

Pan & Tilt Heads

Pan & Tilt Heads Brackets and Accessories

Model No.	PooC-AC7F	PooC-4F	P16CA-DC7-F
			
General Description	Spare AC Input Connector	Spare Preset Connector	Spare 2m Pre-Wired DC Power Lead
Price £ R.R.P.	13.00	13.00	38.00

Model No.	P16CA-AC7-F	PooCA-4F
		
General Description	Spare 2m Pre-Wired AC Power Lead	Spare 2m Pre-Wired Preset Lead
Price £ R.R.P.	27.00	32.00

Camera Housings

The Bewator and Siemens range of camera housings suits virtually all applications. Combining tough extrusion and castings, our housings are durable and easy to install, and facilitate easy access to camera / lens for servicing

For flexible Camera Housings, look no further



- Several standard sizes
- Optional integral wiper with wash facility
- Weather proofing up to IP67
- Internal and external versions
- Advanced heater/blower options for extreme temperatures available
- Withstand exposure to direct sunlight

Camera Housings

Compact Connoisseur Camera Housings

Model No.	HS02	HS02/L	HS02B
			
General Description	Compact Connoisseur Housing. Extruded Housing with standard 4" pdc mount, toughened glass, sunshield. 110 – 230Vac	Compact Connoisseur Housing. Extruded Housing with standard 4" pdc mount, sunshield. 12 - 24Vac	Compact Connoisseur Housing. Extruded Housing with integral bracket, toughened glass, full cable management, sunshield. 110 – 230Vac
Colour	Housing body and bracket: polyester powdercoat RAL 7032 leatherette finish full gloss. Sunshield: polyester powdercoat hipca white smooth finish full gloss Subject to change	Housing body and bracket: polyester powdercoat RAL 7032 leatherette finish full gloss. Sunshield: polyester powdercoat hipca white smooth finish full gloss Subject to change	Housing body and bracket: polyester powdercoat RAL 7032 leatherette finish full gloss. Sunshield: polyester powdercoat hipca white smooth finish full gloss Subject to change
Material	Pressure die cast aluminium with extruded aluminium body and sunshield	Pressure die cast aluminium with extruded aluminium body and sunshield	Pressure die cast aluminium with extruded aluminium body and sunshield
Demister	7W nominal, 25W max. PTC resistor heating element. Thermostatically controlled – ON below 14°C, OFF above 20°C	7W nominal, 25W max. PTC resistor heating element. Thermostatically controlled – ON below 14°C, OFF above 20°C	7W nominal, 25W max. PTC resistor heating element. Thermostatically controlled – ON below 14°C, OFF above 20°C
Environmental	IP67	IP67	IP67
Temperature	-20 to 60°C	-20 to 60°C	-20 to 60°C
Electrical	110- 230Vac	12 - 24Vac	110- 230Vac
Dimensions H x W x D (mm)	80 x 85 x 225 (internal)	80 x 85 x 225 (internal)	80 x 85 x 225 (internal)
Price £ R.R.P.	85.00	85.00	95.00

Camera Housings

Compact Connoisseur Camera Housings

Model No.	HSo2B/L	HSo3B	HSo3B/L
			
General Description	Compact Connoisseur Housing. Extruded Housing with integral bracket, toughened glass, full cable management, sunshield. 12 - 24Vac	Compact Connoisseur Housing. Extruded Housing with BH15 Bracket, toughened glass, sunshield. 110 - 230Vac	Compact Connoisseur Housing. Extruded Housing with BH15 Bracket, toughened glass, sunshield. 12 - 24Vac
Colour	Housing body and bracket: polyester powdercoat RAL 7032 leatherette finish full gloss. Sunshield: polyester powdercoat hipca white smooth finish full gloss Subject to change	Housing body and bracket: polyester powdercoat RAL 7032 leatherette finish full gloss. Sunshield: polyester powdercoat hipca white smooth finish full gloss Subject to change	Housing body and bracket: polyester powdercoat RAL 7032 leatherette finish full gloss. Sunshield: polyester powdercoat hipca white smooth finish full gloss Subject to change
Material	Pressure die cast aluminium with extruded aluminium body and sunshield	Pressure die cast aluminium with extruded aluminium body and sunshield	Pressure die cast aluminium with extruded aluminium body and sunshield
Demister	7W nominal, 25W max. PTC resistor heating element. Thermostatically controlled – ON below 14°C, OFF above 20°C	7W nominal, 25W max. PTC resistor heating element. Thermostatically controlled – ON below 14°C, OFF above 20°C	7W nominal, 25W max. PTC resistor heating element. Thermostatically controlled – ON below 14°C, OFF above 20°C
Environmental	IP67	IP67	IP67
Temperature	-20 to 60°C	-20 to 60°C	-20 to 60°C
Electrical	12 - 24Vac	110 - 230Vac	12 - 24Vac
Dimensions H x W x D (mm)	80 x 85 x 225 (internal)	80 x 85 x 225 (internal)	80 x 85 x 225 (internal)
Price £ R.R.P.	95.00	90.00	90.00

Video Control

Camera Equipment
and Hardware

Camera Housings

Super Connoisseur Camera Housings

Model No.	HS01	HS01/L
		
General Description	Super Connoisseur Extruded Housing. Toughened glass, sunshield, demister. 110 – 230Vac	Super Connoisseur Extruded Housing. Toughened glass, sunshield, demister. 12 – 24Vac
Colour	Housing body and bracket: polyester powdercoat RAL 7032 leatherette finish full gloss. Sunshield: polyester powdercoat hipca white smooth finish full gloss Subject to change	Housing body and bracket: polyester powdercoat RAL 7032 leatherette finish full gloss. Sunshield: polyester powdercoat hipca white smooth finish full gloss Subject to change
Material	Pressure die cast aluminium with extruded aluminium body and sunshield	Pressure die cast aluminium with extruded aluminium body and sunshield
Tilt Speed	45°/sec up, 80°/sec down	0.5°/sec - 15°/sec Tilt torque 10800Ncm
Demister	7W nominal, 25W max. PTC resistor heating element	7W nominal, 25W max. PTC resistor heating element
Environmental	IP66	IP66
Temperature	-20 to 60°C	-20 to 60°C
Electrical	110 – 230Vac	12 – 24Vac
Dimensions D, W, L, A (mm)	110 x 125 x 400 (internal)	110 x 125 x 400 (internal)
Price £ R.R.P.	100.00	100.00

Camera Housings

Siemens Camera Housings

Model No.	CHSM2510	CHSL2610
		
General Description	Protective Camera Housing with sunshield and heater, 300mm. All current Siemens cameras with Siemens fixed or varifocal lenses fit in this housing. The protective housing is suited for permanent mounting with the available wall arms or for direct mounting on a pan and tilt head. The housing cover is easy to remove, facilitating on-site installation and cabling of the camera with lens. Space is provided in the housing for installation of a twisted pair transmitter. The power supplies for cameras and accessories can be installed in the back of the housing to save space. 110 – 230Vac Does not include integrated power supply – available as an option	Protective Camera Housing with sunshield and heater, 320mm. All current Siemens cameras with Siemens fixed, varifocal or zoom lenses fit in this housing. The protective housing is suited for permanent mounting with the available wall arms or for direct mounting on a pan and tilt head. The housing cover is easy to remove, facilitating on-site installation and cabling of the camera with lens. Space is provided in the housing for installation of a twisted pair transmitter or fibre optic module. The power supplies for cameras and accessories can be installed in the back of the housing to save space. 110 – 230Vac Does not include integrated power supply – available as an option
Colour	RAL 9006 silver/dark grey	RAL 9006 silver/dark grey
Material	Corrosion-resistant aluminium housing, anti-reflecting polymer (ABS) sunshield, polycarbonate front and end cap, epoxy resin powder coating	Extruded and die cast corrosion resistant aluminium housing, extruded and die cast corrosion resistant aluminium
Environmental	IP66	IP66
Temperature	-20 to 60°C	-20 to 60°C
Electrical	110 – 230Vac	110 – 230Vac
Dimensions D, W, L, A (mm)	67 x 77 x 250 (rectangular cameras) 67 x 95 x 250 (oval cameras)	85 x 90 x 260
Price £ R.R.P.	85.00	116.50

Camera Housings

Camera Housings Brackets and Accessories

Model No.	BH15	BHC02
		
General Description	Swivel Bracket for Camera Housing. 15kg rated, 280mm long, suitable for HSo1 and HSo2, 4" pcd mounting – colour subject to change	Ceiling Mount Bracket for HSo2B – colour subject to change
Price £ R.R.P.	21.00	27.00

Model No.	BCSo6	BCS12
		
General Description	Column Spacer, 6", 4" pcd mounting – unpainted	Column Spacer, 12", 4" pcd mounting – unpainted
Price £ R.R.P.	32.00	39.00

Model No.	BS100	BS40
		
General Description	Swivel Mount Adaptor, 100kg rated, 4" pcd mounting – colour subject to change	Swivel Mount Adaptor, 40kg rated, 4" pcd mounting – unpainted
Price £ R.R.P.	104.00	55.00

Camera Housings

Camera Housings Brackets and Accessories

Model No.	PSU12D	Wl01
		
General Description	Power Supply Unit, 12Vdc, 500mA, 230Vac input	Wiper Assembly, 230Vac
Price £ R.R.P.	29.00	144.00

Model No.	Wl01/L	Wl0AB
		
General Description	Wiper Assembly, 24Vac	Spare Wiper Arm and Blade for HSo1
Price £ R.R.P.	144.00	19.00

Model No.	WA05	WA05L
		
General Description	Washer, 5L, 230Vac	Washer, 5L, 24Vac
Price £ R.R.P.	191.00	191.00

Camera Housings

Camera Housings Brackets and Accessories

Model No.	CHBC2010	CHBA0111
		
General Description	Wall Mount Bracket for CHSL2610 Housing, 26kg rating, internal cable channel	Corner Mount Adaptor for CHSL2610 and CHSL2510 Housings
Price £ R.R.P.	26.25	42.00

Model No.	CHBA0211	CHBP1810
		
General Description	Pole Mount Adaptor for CHSL2610 and CHSL2510 Housings	Pedestal Mount for CHSL2610 and CHSL2510 Housings
Price £ R.R.P.	48.00	76.00

Model No.	CHHM2310	CHHA2410
		
General Description	Heater Kit for CHSL2610 and CHSL2510 Housings, 230Vac	Heater Kit for CHSL2610 and CHSL2510 Housings, 12Vdc / 24Vac
Price £ R.R.P.	22.00	22.00

Phoenix Flameproof Equipment

Bewator is a world leader in the manufacture of ATEX approved Housings and Pan & Tilt heads. These are typically used in the petrochemical, industrial, aerospace and offshore industries, and generally on sites where there is a risk of explosion because volatile gases, vapours, mists or dusts are present.

The Phoenix range is recognised and chosen internationally by customers who require the best engineered solution for security and process monitoring in hazardous areas

Since its launch in 1980, the Phoenix range of Pan & Tilt Heads and Housings has been successfully used in:

- Oil refineries
- Oil tankers
- Oil & Gas rigs
- Pharmaceutical plants
- Petrochemical plants
- Rocket launching sites



Video Control



Flameproof Equipment

Phoenix Flameproof Equipment	209
Pan & Tilt Heads for IIB Applications	210
Housings for IIB Applications	211
Housings for IIC Applications	213
Camera Head for IIC Applications	215
Accessories	216

Phoenix Flameproof Equipment

Phoenix Flameproof Pan & Tilt Heads for IIB Applications

Model No.

FP50B / FP50B/L / FP50B/U



General Description

Phoenix Flameproof Pan & Tilt Head. Phoenix Flameproof Pan & Tilt Heads are ATEX certified to be used in potentially hazardous areas where there is a risk of explosion because flammable gases, vapours, mists or dusts may be present.

The unit is designed to prevent explosions by containing any heat, sparks, or flames generated. This prevents potentially explosive atmospheres or materials outside the equipment being ignited. The unit is ATEX certified for use in IIB gas environments (includes ethylene and propane). The Pan & Tilts are fitted with potentiometers, and 230,110 and 24Vac versions are available.

Certification to European ATEX Directive 94/9/EC

Ex ii 2 GD:

-Group ii: Not suitable for mining applications

-Category 2: Protection suitable for normal operation and frequently occurring disturbances where faults are normally taken into account. Equipment remains energised and functioning in Zones 1,2(G) and/or 21,22(D)

EExd IIB T85°C

-Flameproof enclosure to standard EN 50 014 and EN 50 018 Zones 1 & 2

-Flammable gas is likely to occur in normal operation.

-Group IIA/IIB - Typical gas vapours: Ethylene, coke oven gas, dimethyl ether, diethylether, ethylene oxide

-T6 Temperature class: based on ambient temperature of 40°C

-Maximum surface temperature generated by the unit does not exceed 85°C

Colour

Body: Polyester Powdercoat RAL1021 (Yellow). Endplates: Clear Anodised

Pan Speed

4.5°/s, Torque 45 Nm

Tilt Speed

4.5°/s, Torque 45 Nm

Load Weight

40kg (sidemount)

Rotation

Max. 352° Pan, 176° Tilt (sidemount)

Shock

30G Max. (packed product)

Stall Protection

Continuous Stall Rated Motors

Backlash

±0.15° (max.)

Environmental

IP67

Electrical

FB50B	230Vac
FB50B/L	24Vac
FB50B/U	110Vac

Dimensions

H x W x D (mm)

167 x 187 x 448

Price £ R.R.P.

FP50B	Phoenix Flameproof Pan & Tilt Head, 230Vac	2,195.00
FP50B/L	Phoenix Flameproof Pan & Tilt Head, 24Vac	2,195.00
FP50B/U	Phoenix Flameproof Pan & Tilt Head, 110Vac	2,195.00

Phoenix Flameproof Equipment

Phoenix Flameproof 7" Housings for IIB Applications

Model No.

FHo7B-40 / FHo7B- 40/L / FHo7B-40/U



General Description

Phoenix Flameproof 7" Housing. Phoenix Flameproof Housings are ATEX certified to be used in potentially hazardous areas where there is a risk of explosion because flammable gases, vapours, mists or dusts may be present. The housing is designed to prevent explosions by containing any heat, sparks, or flames generated. This prevents potentially explosive atmospheres or materials outside the equipment being ignited. The housing can be factory-fitted with a wiper and integral 10 or 17fn AC Telemetry Receiver.

Certification to European ATEX Directive 94/9/EC

Ex ii 2 GD

-Group ii: Not suitable for mining applications

-Category 2: Protection suitable for normal operation and frequently occurring disturbances where faults are normally taken into account. Equipment remains energised and functioning in Zones 1,2(G) and/or 21,22(D)

EExd IIB T85°C

-Flameproof enclosure to standard EN 50 014 and EN 50 018 Zones 1 & 2

-Flammable gas is likely to occur in normal operation

-Group IIA/IIB - Typical gas vapours: Ethylene, coke oven gas, dimethyl ether, diethylether, ethylene oxide

-T6 Temperature class: based on ambient temperature of 40°C

-Maximum surface temperature generated by the unit does not exceed 85°C

Supplied complete with heater & sunshield

Optional factory pre-build and ATEX equipment certification (camera, lens etc.)

Factory fitted equipment:

- wiper for IIB gas group (230V, 110V and 24Vac)

- In-built telemetry receiver (eliminates need for ATEX approved enclosure), 10 functions or 17 functions with presets

- Tamper switch

Colour	Body: Polyester powdercoat RAL1020 (yellow), Endplates: Clear anodised, Sunshield: White polyester powdercoat
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Material	Aluminium housing body, end caps and sunshield
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Demister	7W nominal, 25W max. PTC resistor heating element
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Environmental	IP67
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Electrical	FHo7B-40	230Vac
	FHo7B-40/L	24Vac
	FHo7B-40/U	110Vac

Dimensions	186 x 209 x 675 (external)
H x W x D (mm)	94 x 114 x 420 (internal)

Price £ R.R.P.	FHo7B-40	Phoenix Flameproof Housing, 230Vac	1,185.00
	FHo7B-40/L	Phoenix Flameproof Housing, 24Vac	1,185.00
	FHo7B-40/U	Phoenix Flameproof Housing, 110Vac	1,185.00

Video Control

Flameproof
Equipment

Phoenix Flameproof Equipment

Phoenix Flameproof 7" Housings for IIB Applications

Model No.

FHo7B-30 / FHo7B-30/L / FHo7B-30/U



General Description

Phoenix Flameproof 7" Housing. Phoenix Flameproof Housings are ATEX certified to be used in potentially hazardous areas where there is a risk of explosion because flammable gases, vapours, mists or dusts may be present. The housing is designed to prevent explosions by containing any heat, sparks, or flames generated. This prevents potentially explosive atmospheres or materials outside the equipment being ignited. The housing can be factory-fitted with a wiper and integral 10 or 17fn AC Telemetry Receiver.

Certification to European ATEX Directive 94/9/EC

Ex ii 2 GD

-Group ii: Not suitable for mining applications

-Category 2: Protection suitable for normal operation and frequently occurring disturbances where faults are normally taken into account. Equipment remains energised and functioning in Zones 1,2(G) and/or 21,22(D)

EExd IIB T85°C

-Flameproof enclosure to standard EN 50 014 and EN 50 018 Zones 1 & 2

-Flammable gas is likely to occur in normal operation

-Group IIA/IIB - Typical gas vapours: Ethylene, coke oven gas, dimethyl ether, diethylether, ethylene oxide

-T6 Temperature class: based on ambient temperature of 40°C

-Maximum surface temperature generated by the unit does not exceed 85°C

Supplied complete with heater & sunshield

Optional factory pre-build and ATEX equipment certification (camera, lens etc.)

Factory fitted equipment:

- wiper for IIB gas group (230V, 110V and 24Vac)

- In-built telemetry receiver (eliminates need for ATEX approved enclosure), 10 functions or 17 functions with presets

- Tamper switch

Colour	Body: Polyester powdercoat RAL1020 (yellow), Endplates: Clear anodised, Sunshield: White polyester powdercoat
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Material	Aluminium housing body, end caps and sunshield
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Demister	7W nominal, 25W max. PTC resistor heating element
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Environmental	IP67
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Electrical	FHo7B-30	230Vac
	FHo7B-30/L	24Vac
	FHo7B-30/U	110Vac

Dimensions	186 x 209 x 545 (external)
H x W x D (mm)	94 x 114 x 290 (internal)

Price £ R.R.P.	FHo7B-30	Phoenix Flameproof Housing, 230Vac	1,240.00
	FHo7B-30/L	Phoenix Flameproof Housing, 24Vac	1,240.00
	FHo7B-30/U	Phoenix Flameproof Housing, 110Vac	1,240.00

Phoenix Flameproof Equipment

Phoenix Flameproof 7" Housings for IIC Applications

Model No.

FHo7C-40 / FHo7C- 40/L / FHo7C-40/U



General Description

Phoenix Flameproof 7" Housing. Phoenix Explosion Proof Housings are ATEX certified to be used in potentially hazardous areas where there is a risk of explosion because flammable gases, vapours, mists or dusts may be present. The housing is designed to prevent explosions by containing any heat, sparks, or flames generated. This prevents potentially explosive atmospheres or materials outside the equipment being ignited. The housing is ATEX certified for use in IIC gas environments (includes hydrogen and acetylene). The housing can be factory fitted with a wiper and integral 10 or 17fn AC Telemetry Receiver. Certification to European ATEX Directive 94/9/EC

Ex ii 2 GD

-Group ii: Not suitable for mining applications

-Category 2: Protection suitable for normal operation and frequently occurring disturbances where faults are normally taken into account. Equipment remains energised and functioning in Zones 1,2(G) and/or 21,22(D)

EExd IIC T85°C

-Flameproof enclosure to standard EN 50 014 and EN 50 018 Zones 1 & 2

-Flammable gas is likely to occur in normal operation

-Group IIA/IIB/IIC - Typical gas vapours: Hydrogen, Acetylene, Ethylene, coke oven gas, dimethyl ether, diethylether, ethylene oxide

-T6 Temperature class: based on ambient temperature of 40°C

-Maximum surface temperature generated by the unit does not exceed 85°C

Supplied complete with heater & sunshield

Optional factory pre-build and ATEX equipment certification (camera, lens etc.)

Factory fitted equipment:

- wiper for IIC gas group (230V, 110V and 24Vac)

- In-built telemetry receiver (eliminates need for ATEX approved enclosure), 10 functions or 17 functions with presets

- tamper switch

Colour Body: Polyester powdercoat RAL1020 (yellow), Endplates: Clear anodised, Sunshield: White polyester powdercoat

Material Aluminium housing body, end caps and sunshield

Demister 7W nominal, 25W max. PTC resistor heating element

Environmental IP67

Electrical

FHo7B-40	230Vac
FHo7B-40/L	24Vac
FHo7B-40/U	110Vac

Dimensions
H x W x D (mm)
 186 x 209 x 675 (external)
 94 x 114 x 420 (internal)

Price £ R.R.P.	FHo7C-40	Phoenix Flameproof Housing, 230Vac	1,320.00
	FHo7C-40/L	Phoenix Flameproof Housing, 24Vac	1,320.00
	FHo7C-40/U	Phoenix Flameproof Housing, 110Vac	1,320.00

Phoenix Flameproof Equipment

Phoenix Flameproof 7" Housings for IIC Applications

Model No.

FHo7C-30 / FHo7C- 30/L / FHo7C-30/U



General Description

Phoenix Flameproof 7" Housing. Phoenix Flameproof Housings are ATEX certified to be used in potentially hazardous areas where there is a risk of explosion because flammable gases, vapours, mists or dusts may be present. The housing is designed to prevent explosions by containing any heat, sparks, or flames generated. This prevents potentially explosive atmospheres or materials outside the equipment being ignited. The housing is ATEX certified for use in IIC gas environments (includes hydrogen and acetylene). The housing can be factory fitted with a wiper and integral 10 or 17fn AC Telemetry Receiver. Certification to European ATEX Directive 94/9/EC

Ex ii 2 GD

- Group ii: Not suitable for mining applications
- Category 2: Protection suitable for normal operation and frequently occurring disturbances where faults are normally taken into account. Equipment remains energised and functioning in Zones 1,2(G) and/or 21,22(D)

EExd IIC T85°C

- Flameproof enclosure to standard EN 50 014 and EN 50 018 Zones 1 & 2
- Flammable gas is likely to occur in normal operation
- Group IIA/IIB/IIC - Typical gas vapours: Hydrogen, Acetylene, Ethylene, coke oven gas, dimethyl ether, diethylether, ethylene oxide
- T6 Temperature class: based on ambient temperature of 40°C
- Maximum surface temperature generated by the unit does not exceed 85°C

Supplied complete with heater & sunshield

Optional factory pre-build and ATEX equipment certification (camera, lens etc.)

Factory fitted equipment:

- wiper for IIC gas group (230V, 110V and 24Vac)
- In-built telemetry receiver (eliminates need for ATEX approved enclosure), 10 functions or 17 functions with presets
- tamper switch

Colour	Body: Polyester powdercoat RAL1020 (yellow), Endplates: Clear anodised, Sunshield: White polyester powdercoat		
Material	Aluminium housing body, end caps and sunshield		
Demister	7W nominal, 25W max. PTC resistor heating element		
Environmental	IP67		
Electrical	FHo7C-30	230Vac	
	FHo7C-30/L	24Vac	
	FHo7C-30/U	110Vac	
Dimensions	186 x 209 x 675 (external)		
H x W x D (mm)	94 x 114 x 420 (internal)		
Price £ R.R.P.	FHo7C-30	Phoenix Flameproof Housing, 230Vac	1,215.00
	FHo7C-30/L	Phoenix Flameproof Housing, 24Vac	1,215.00
	FHo7C-30/U	Phoenix Flameproof Housing, 110Vac	1,215.00

Phoenix Flameproof Equipment

Phoenix Flameproof Camera Head for IIC Applications

Model No.

FPHC-40 / FPHC- 40/L / FPHC-40/U



General Description

Phoenix Flameproof Camera Head Assembly. Phoenix Flameproof Camera Head ATEX certified to be used in potentially hazardous areas where there is a risk of explosion because flammable gases, vapours, mists or dusts may be present. The camera head, which comprises both a housing and pre-set pan & tilt head, is designed to prevent explosions by containing any heat, sparks, or flames generated by equipment inside it. This prevents potentially explosive atmospheres or materials outside the equipment being ignited. The camera head is ATEX certified for use in IIC gas environments (includes hydrogen and acetylene). The housing can have a wiper and integral 10 or 17fn AC Telemetry Receiver factory fitted.

Certification to European ATEX Directive 94/9/EC
Ex ii 2 GD
-Group ii: Not suitable for mining applications
-Category 2: Protection suitable for normal operation and frequently occurring disturbances where faults are normally taken into account. Equipment remains energised and functioning in Zones 1,2(G) and/or 21,22(D)
EExd IIC T85°C
-Flameproof enclosure to standard EN 50 014 and EN 50 018 Zones 1 & 2
-Flammable gas is likely to occur in normal operation
-Group IIA/IIB/IIC - Typical gas vapours: Hydrogen, Acetylene, Ethylene, coke oven gas, dimethyl ether, diethylether, ethylene oxide
-T6 Temperature class: based on ambient temperature of 40°C
-Maximum surface temperature generated by the unit does not exceed 85°C
Supplied complete with heater & sunshield
Optional factory pre-build and ATEX equipment certification (camera, lens etc.)
Factory fitted equipment:
- wiper for IIC gas group (230V, 110V and 24Vac)
- In-built telemetry receiver (eliminates need for ATEX approved enclosure), 10 functions or 17 functions with presets
- tamper switch

Colour	Body: Polyester powdercoat RAL1020 (yellow), Endplates: Clear anodised, Sunshield: White polyester powdercoat		
Material	Aluminium housing body, end caps and sunshield		
Demister	7W nominal, 25W max. PTC resistor heating element		
Pan Speed	4.5°/s, Torque 45 Nm		
Tilt Speed	4.5°/s, Torque 45 Nm		
Load Weight	40kg (sidemount)		
Rotation	Max. 352° Pan, 176° Tilt (sidemount)		
Shock	30G Max. (packed product)		
Stall Protection	Continuous Stall Rated Motors		
Backlash	±0.15° (max.)		
Environmental	IP67		
Electrical	FPHC-40	230Vac	
	FPHC-40/L	24Vac	
	FPHC-40/U	110Vac	
Dimensions H x W x D (mm)	186 x 209 x 675 (Housing external), 94 x 114 x 420 (Housing internal) 286 x 167 x 448 (Pan & Tilt)		
Price £ R.R.P.	FPHC-40	Phoenix Flameproof Camera Head, 230Vac	4,800.00
	FPHC-40/L	Phoenix Flameproof Camera Head, 24Vac	4,800.00
	FPHC-40/U	Phoenix Flameproof Camera Head, 110Vac	4,800.00

Phoenix Flameproof Equipment

Phoenix Flameproof Factory Fit Accessories

Model No.	FHo7W	FHo7W/L	FHo7W/U
			
General Description	Wiper Kit for FHo7 Housing, 230Vac	Wiper Kit for FHo7 Housing, 24Vac	Wiper Kit for Housing, 110Vac
Price £ R.R.P.	275.00	275.00	325.00

Model No.	FHo7-RX210	FHo7-RX217	FHo7-RXFIT
			
General Description	10fn Receiver mounted in FHo7 Housing, 110-230Vac	17fn Receiver mounted in FHo7 Housing, 110-230Vac	Fit Free Issued non Bewator receiver
Price £ R.R.P.	360.00	585.00	128.00

Model No.	FHo7-CGLAND	FHo7-CERT	WI01AB
			
General Description	ATEX II GC (Eed IIC) Compound Filled Barrier Gland for unarmoured cable for FHo7C Housings	Factory Fit Customer Supplied Camera & Lens plus ATEX equipment certificate (price per housing)	Spare Wiper Arm & Blade for FHo7 Housings
Price £ R.R.P.	45.00	135.00	19.00

Please Note The Following:

Factory Fit options must be ordered and supplied with housings
 Bewator can supply and fit suitable cameras and lens on request
 Before specifying housings please contact Sales Support to check that the dimensions and electrical power of cameras, lenses and any other equipment intended for fitting inside the housings meet the approved criteria

Control Equipment, Recording and Monitors

Bewator and Siemens control and recording solutions are designed with flexibility in mind - all have integration capability with 3rd party equipment, and can support system expansion, thus extending the life span of any security system. Our portfolio includes Digital Recording systems, the versatile V3i matrix switcher, a range of Telemetry equipment and the new stylish Siemens LCD TFT Monitors



Eventys Digital Video Recording Systems	219
Eventys Lite 4 and 8 Channel	221
Eventys Lite 16 Channel	222
Eventys Pro Digital Management System	223
Coax Control Unit	226
Accessories	227
Eventys RMC Remote Management Centre	228
Eventys Pro Net Digital Management System	230
Siemens Digital Recording Systems	233
SISTORE AX	234
SISTORE MX	237
SISTORE MX DVD	238
SISTORE CX4	239
SISTORE CX8	240
SISTORE EDS	241
SISTORE MX NVR	242
Accessories	243
IVM Client	245
Visilynx Matrix System	247
V3i – ISU	248
Accessories	249
Telemetry Equipment	251
Coax Control Unit	252
TX Control	253
AC Telemetry Receivers	255
DC Telemetry Receivers	257
Accessories	260
LCD Monitors	261
LCD Monitor	261



Frustrated by DVR Technology?

Then how does this sound?

- TRUE high recording speed (up to 400 fps)
- INTEGRATION to other products
- HIGH quality images (upto D1 quality)
- WIDE storage options (3TB on board RAID5 storage)
- MEGAPIXEL camera support on NVR
- MAPPING & REMOTE MONITORING

Talk to Bewator now on 0871 386 0840 (or email us at marketing@bewator.co.uk) to find out more about our latest digital recording solutions and our full range of 4, 8, 16 and 32 channel DVR's.

For Further information please contact us on 0871 386 0835



BEWATOR

A Siemens Business

Eventys Digital Recording Systems

Eventys Digital Recording Systems: powerful, seamless and reliable.

Bewator digital recording solutions are designed with flexibility in mind, all have integration capability with 3rd party equipment, and can support system expansion, thus extending the life span of any security system.

The Eventys range extends from our 4, 8 and 16 channel Lite DVRs, our Pro Digital Video Management System, which can integrate with Granta Access Control System to RMC, our Remote Management Centre software



Video Control

- Eventys Lite – 4, 8 or 16 channel options
- Eventys Pro Digital Video Management System, offering seamless integration with Granta Access Control Systems
- The new Eventys Pro Net DVMS, offering the very latest in digital technology
- Eventys RMC Remote Monitoring Centre providing a solution for centralised monitoring and control of a number of remote sites

Control Equipment,
Recording and
Monitors

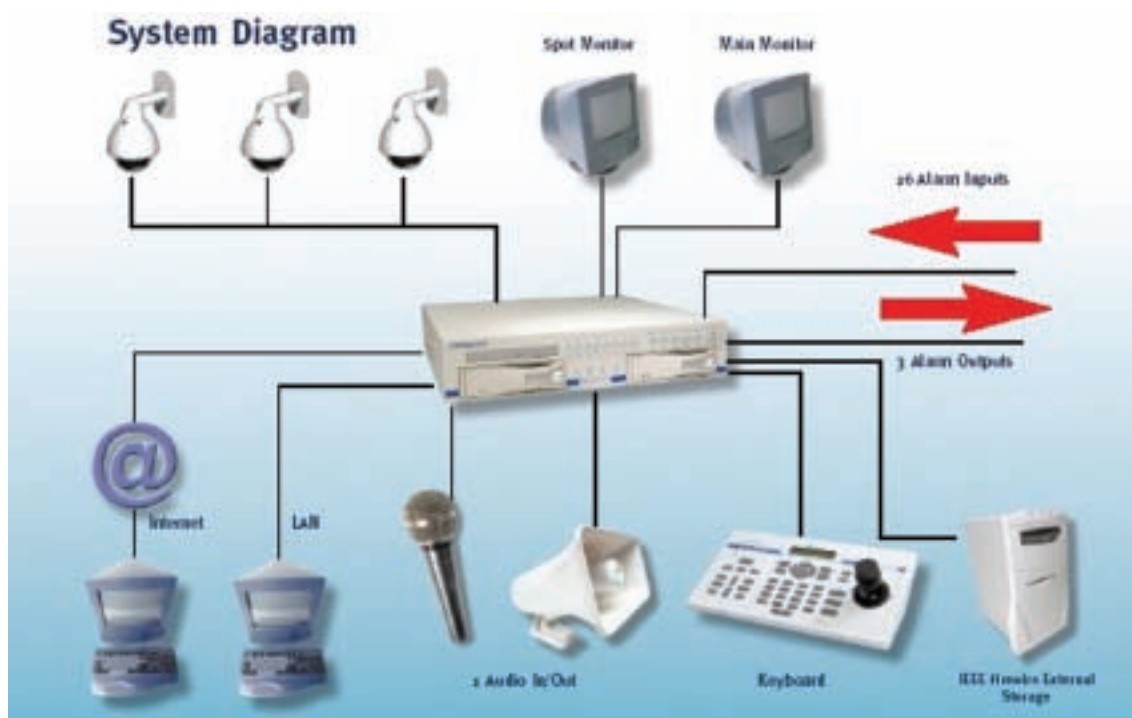
Eventys Lite DVRs

The Eventys Lite family of DVRs provide a powerful cost effective solution for CCTV recording. DVRs are equipped with an embedded Linux operating system and flexible alarm and motion detection features.

The DVR is equipped with advanced alarm management capabilities. Alarms can be generated by motion detection or by alarm relay inputs. All this is fully configurable for time of day, weekends and a host of other flexible features. The Eventys Lite DVR is easily connected to LANs and WANs for remote monitoring and alarm notification by software or email.

The DVR is simple to set up and operate yet offers the features only found in many other mid to high range DVRs.

The Eventys keyboard can be added to the system to provide control of Domes and DVRs



- High speed recording up to 200 pictures per second
- Ethernet connectivity for remote access to live and recorded video using free web based viewer
- Intelligent record, search, and playback functions
- Motion detection
- Alarm input
- Powerful Motion MPEG4 compression engine
- Configurable Separate HDD Partition for Recorded Events
- USB ports for multiple device extension
- IEEE-1394 (FireWire®) interface for extended storage
- Programmable recording quality
- Dual channel audio recording and playback
- Two levels of passwords to secure system
- System auto reboot after power interruption
- System software stored in non-volatile memory, free from hard disk crash
- Built-in CD-R/W (4 & 8 Channel) DVD (16 Channel) and USB port allows for easy export of recorded video
- Built-in multiple speed dome camera control protocol

Eventys Lite DVRs

Eventys 4 and 8 Channel Lite DVRs

Model No.

EVL-R4-250 / EVL-R8-400



General Description

Eventys Lite 4 and 8 Channel Digital Video Recorders are compact additions to the existing 16 channel range of DVR's. The range was specially designed for small installations, such as retail outlets, petrol stations or for general site monitoring, where high quality images, speed and reliability are paramount.

The latest MPEG-4 compression, combined with a LINUX operating system ensures that the Eventys Lite 4 and 8 Channel DVRs models are fast and reliable

- 100IPS (real time recording for 4 cameras)
- CD writer, USB and LAN / Network card built in
- 250 or 400GB Hard drive options
- VMD - Motion detection system
- Dome control over the Network and locally using the Eventys Lite Keyboard
- Synchronised audio recording
- Powerful network functions

Model Options

EVL-R4-250 – 4 Channel and 250GB Hard Drive
EVL-R8-400 – 8 Channel and 400GB Hard Drive

System Features

Archiving Format:	CD-RW, USB
Image Res (PAL):	High(recording) 2CIF (704x288 pixels) High(playback) 4CIF (704x576 pixels) Standard CIF (352x288 pixels) Browsing QCIF (176x144 pixels)
Maximum Image Rates:	100IPS @ 360 x 288 50IPS @ 720 x 288 25IPS @ 720 x 576
Monitor Outputs:	VGA: 800x600, 1024x768, 1280x1024 @ 60Hz Other: 1 main monitor, 1 spot monitor
Record Modes:	Motion detection, continuous or event-triggered
Storage Capacity:	250 or 400GB
Text Option:	10 languages supported
Video Inputs:	8 IP, NBC
Video Standard Compression:	PAL/NTSC, MPEG-4
Audio inputs/outputs:	2 channels
Video export options:	AVI or native DRV

Environmental

Internal Use Only

Temperature

5 to 40°C

Electrical

115 / 230Vac, 50-60Hz

Keyboard Option

EVL-K - Eventys Lite 16 Joystick Keyboard for DVR and dome camera control

Price £ R.R.P.

EVL-R4-250	1,350.00
EVL-R8-400	1,750.00
EVL-K	595.00

Video Control

Control Equipment,
Recording and
Monitors

Eventys 16 Channel Lite DVRs

Eventys 16 Channel Lite DVRs

Model No. EVL-R16-300-F-DVD / 500-F-DVD / 1000-F-DVD / 1500-F-DVD



General Description **Eventys Lite 16 Channel Digital Video Recorders** are equipped with an embedded operating system and motion MPEG4 compression engine. Eventys Lite is extremely user friendly and simple to set up, to record and view high quality video images. Eventys Lite is fitted with a removable hard disk caddy to allow easy removal and storage of sensitive evidence. The DVR is available with either 300GB, 500GB 1TB or 1.5TB hard drives. The built in DVD writer and network connection allows video to be easily exported in either native file format or as an AVI file for viewing on a PC

Model Options
 EVL-R16-300-F-DVD – 16 Channel and 300GB Hard Drive
 EVL-R16-500-F-DVD – 16 Channel and 500GB Hard Drive
 EVL-R16-1000-F-DVD – 16 Channel and 1TB Hard Drive
 EVL-R16-1500-F-DVD – 16 Channel and 1.5TB Hard Drive

System Features	• Supplied with free viewer software • 200FPS • Ethernet / LAN connectivity for remote access and control • Built-in web server makes remote live view, playback, and recording via web browser easy Integration • Built-in multiple dome camera control protocols; Molynx, Pelco P, Pelco D, AD422 • USB port for export to memory sticks • Flexible Alarm & Motion detection • Jog / Shuttle control • Motion detection • Advanced embedded operating system (LINUX)	• System software stored in non-volatile memory, separate from recorded material Recording & Storage • Built-in DVD for archiving recorded video • IEEE-1394 (FireWire®) interface for extended storage • Removable Hard Disk Drive, providing flexible large storage capacity • Powerful Motion MPEG4 compression engine • Programmable recording quality • Intelligent record, search, and playback functions • Single channel audio recording and playback
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Environmental Internal Use Only

Temperature 0 to 40°C

Electrical 115 / 230Vac, 50-60Hz

Keyboard Option **EVL-K** - Eventys Lite 16 Joystick Keyboard for DVR and dome camera control

Price £ R.R.P.	EVL-R16-300-F-DVD EVL-R16-500-F-DVD EVL-R16-1000-F-DVD EVL-R16-1500-F-DVD EVL-K	2,250.00 2,500.00 3,100.00 3,570.00 595.00
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Eventys Pro Digital Video Management System

Eventys: Quality, Reliability, Speed

This powerful and sophisticated system has the capability of supporting both IP and analogue cameras simultaneously. Available in 4, 8, 16 and 32 channels, it is easy to set up, whilst superior motion detection and advanced search facilities make it both powerful and easy to use. Video is easily exported to the built in DVD writer, or USB device, Network or SCSI attached peripherals.

Industrial Class Secure Components

All machines are built into an industrial rack mounted chassis that is specially designed for 24/7/365 operation with superior cooling and disk monitoring. All models are fitted with serial ATA RAID data drives configured as RAID0; this is easily converted to RAID5 by the user. The operating system is installed on a separate internal disk so when we say 2TB of storage we mean 2TB of video storage!

The DVRs run Windows XP Pro multi language version so the user interface is easily switched to other European languages without having to re-install the system.

Flexible Network Accessibility

Eventys Pro comes with powerful system connectivity and remote monitoring capabilities across LANs, WANs or Internet channels. Viewers can access real time or recorded data from any number of recorders anywhere using Eventys family software. The RMC software suite provides a central monitoring function for DVRs sited across remote sites, even countries, and provides reliable alarm monitoring and video monitoring facilities.

Key Features

- Supports network and analogue cameras (simultaneously)
- High Quality Video
- Advanced and easy to use search and replay features
- User friendly menu system
- In-built DVD Writer and front USB ports
- Individual camera recording settings
- Individual camera recording scheduling
- Advanced motion detection feature
- 2 Channels of Audio as Standard
- Compatible with 3rd party protocols
- Configurable alarm inputs for remote visual verification of events
- Image fingerprinting for tamper protection
- Powerful remote monitoring over network (including configuration)
- Seamless integration with Bewator's Granta Security Management System and 2010 Complete Integrated System
- RAID Option available



Video Control

Control Equipment,
Recording and
Monitors

Eventys Pro DVMS

Eventys Pro Digital Video Management System

Model No.

EV-R4 / EV-R8 / EV-R16 / EV-32



General Description

Eventys Pro Digital Video Management System is an advanced digital video and audio recorder / server that replaces analogue VCR, multiplexer, motion detector, and video transmission systems used in traditional analogue systems. Featuring some of the most powerful search functions in the market today, images can be easily retrieved using Eventys' intelligent search tools. Simultaneously supporting both analogue and IP cameras, along with remote data storage Eventys is well suited for demanding sites such as banks, factories, and logistics centres, as well as general corporate surveillance. Eventys eliminates restrictions of physical distance by being accessible from virtually anywhere in the world over TCP/IP networks

Environmental

Internal Use Only

Temperature

5 to 40°C

Electrical

115 / 230Vac, 50-60Hz

Dimensions H x D xD (mm)

168 x 448 x 427

Price £ R.R.P.

EV-R4-500	4 Channel, 500GB Hard Drive, 100IPS	3,950.00
EV-R8-500-F	8 Channel, 500GB Hard Drive, 200IPS	4,950.00
EV-R8-1000-F	8 Channel, 1TB Hard Drive, 200IPS	5,250.00
EV-R8-2000-F	8 Channel, 2TB Hard Drive, 200IPS	6,250.00
EV-R16-500-F	16 Channel, 500GB Hard Drive, 200IPS	5,500.00
EV-R16-1000-F	16 Channel, 1TB Hard Drive, 200IPS	5,600.00
EV-R16-2000-F	16 Channel, 2TB Hard Drive, 200IPS	6,999.00
EV-R16-3000-F	16 Channel, 3TB Hard Drive, 200IPS	8,690.00
EV-R32-1000	32 Channel, 1TB Hard Drive, 96 IPS	8,750.00
EV-R32-2000	32 Channel, 2TB Hard Drive, 96 IPS	10,500.00
EV-R32-3000	32 Channel, 3TB Hard Drive, 96 IPS	11,580.00

Eventys Pro Digital Video Management System

Model No.	EV-R4 / EV-R8 / EV-R16 / EV-R32 cont.
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System Features		
Digital recording on hard disk from 4 to 32 inputs 2 Audio channels, expandable to 6 or 10 Up to 400IPS total recording speed (dependent on system). Up to 3TB internal storage capacity Continuous, motion-based and event-triggered recording Search by time/date, event, motion or activity Individual camera settings and scheduling capability Supports analogue and network cameras TCP/IP network support Image watermarking and authentication tool Support for external video matrix Dome camera control locally or over network Remote real-time viewing and image retrieval Internal backup to DVD-RW	Alarm Inputs: 4 Archiving Format: DVD-RW, optional VCR, NAS / RAID Authentication: Images are watermarked before exporting Calendar: Programmable recording for each day of the week in one-hour increments. Separate yearly calendar for holidays Domes (Controlled via serial port): Bewator, Ernitec, JVC, Panasonic, Pelco, Philips/Bosch, Sensormatic Event Adjustable Duration: Event source (camera, input, disk full, no signal), pre- and post-event recording duration and rate, network alarm (NC), output contact, dome camera pre-position, logical events, storage time Event Settings: Event source (camera, input, disk full, no signal), pre- and post-event recording duration and rate, network alarm (NC), output contact, dome camera pre-position, logical events, storage time	Image Res (PAL): High(recording) 2CIF (704x288 pixels) High(playback) 4CIF (704x576 pixels) Standard CIF (352x288 pixels) Browsing QCIF (176x144 pixels) Image Size (average): High: CIF 22kB; 2CIF 45kB Good: CIF 17kB; 2CIF 35kB Normal: CIF 10kB; 2CIF 20kB Record Modes: Motion detection, continuous or event-triggered (calendar) Standard Remote Client Software: Eventys Viewer (WIN XP/2000/NT) Eventys Net Viewer (Win98/2000/ME/NT/XP requires MS Internet Explorer 4.0 or newer) Supported Video Matrices (Controlled via serial port): Bewator Visilynx 3i, Computar CS16.4PII, Pelco CM6700/CM6800 Telemetry: Twisted Pair RS485/422 with converter (EV-232-485) Video Standard Compression: PAL/NTSC WMC9 (enhanced MPEG-4) Motion JPEG option

Video Control

Control Equipment,
Recording and
Monitors

Eventys Pro DVMS

Coax Control Unit

Model No.

CAC1601



General Description

Coax Control Unit is a combined coaxial telemetry transmitter, telemetry protocol converter and 16 by 4 video switcher. It allows SIEMENS Solaris™ speed domes and telemetry receivers to be controlled over the coax using up to 2 simultaneous telemetry control sources, as detailed in the system overview below.

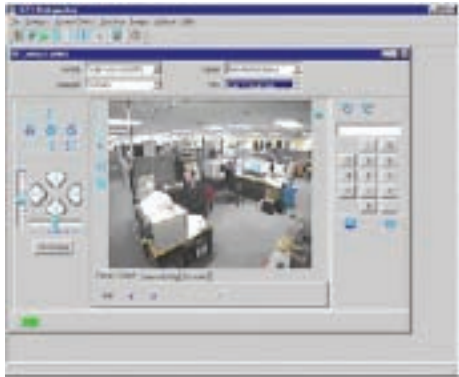
Over the coax telemetry control of PTZ cameras can provide major cost benefits over RS485 control by eliminating the need to run twisted pair cables for telemetry in addition to coaxial cable. This is particularly useful when upgrading existing fixed camera applications to fully functional dome systems.

Many digital recorders do not support over the coax telemetry as standard. The Coax Control Unit has integrated video switching functionality (16 in / 4 out). This overall function set offers easy installation and flexible compact video surveillance systems. Each unit accepts multi-protocol RS485 telemetry commands from up to 2 control sources and converts the command string to Molynx-C coaxial telemetry. The innovative LCD screen allows quick and simple set up, with on board test/diagnostic facilities. An integral USB port is configured to accept commands from SISTORE MX, Eventys Pro or any third party PC front end delivering a supported protocol.

Video Inputs	16 loop through C-Type channels
Video Outputs	4 controllable monitor outputs (2 with PAL on-screen text)
Telemetry Inputs	2 x RS485 / 1 dual channel, USB Telemetry channel
Protocol Support	Siemens CCDA, Bewator Molynx, Bewator PC-CON, Ernitec ERNA, Pelco D, Pelco P, VCL, Vicon, Videmech Universal protocol
Set Up	LCD with adjacent control keys
Environmental	Internal use only
Temperature	0 to 40°C
Electrical	115 / 230Vac,
Price £ R.R.P.	499.00

Eventys Pro Digital Video Management System Accessories

Model No.	EV-S-RC	EV-ARKIT
		
General Description	Eventys Controller Software	Alarm Inputs, Relay Outputs Kit
Price £ R.R.P.	510.00	205.00

Model No.	EV-USB-485	EV-ABIT
		
General Description	USB-RS485 Converter	Integration License. Required for DVR integration with Granta or 2010 systems
Price £ R.R.P.	170.00	297.00

Analogue Video Out Options (IP Cameras are NOT viewable with these options)

Analogue Monitor Output for 4 Monitors

Price £ R.R.P. 459.00

Analogue Monitor Output for 4 Monitors, with 2 Quads, 2 Main

Price £ R.R.P. 925.00

Audio Recording Options (additional audio capacity may be added if required, 2 channels come as standard)

+A6 6 Channels of audio recording

Price £ R.R.P. 425.00

+A10 10 channels of audio recording

Price £ R.R.P. 585.00

The required number of audio channels should be appended to the DVMS part number, e.g.
EV-R16-1000-A6 = 16 channel video recording, 1TB storage and 6 channel audio recording

IP Input Options (IP cameras inputs may be substituted in groups of 4 at no additional cost)

EV-R16-500-F-E4 = 12 analogue camera inputs and 4 IP camera inputs, 500GB storage

EV-R8-1000-F-E8 = 8 channel full IP version, 1TB storage

Eventys RMC Remote Management Centre

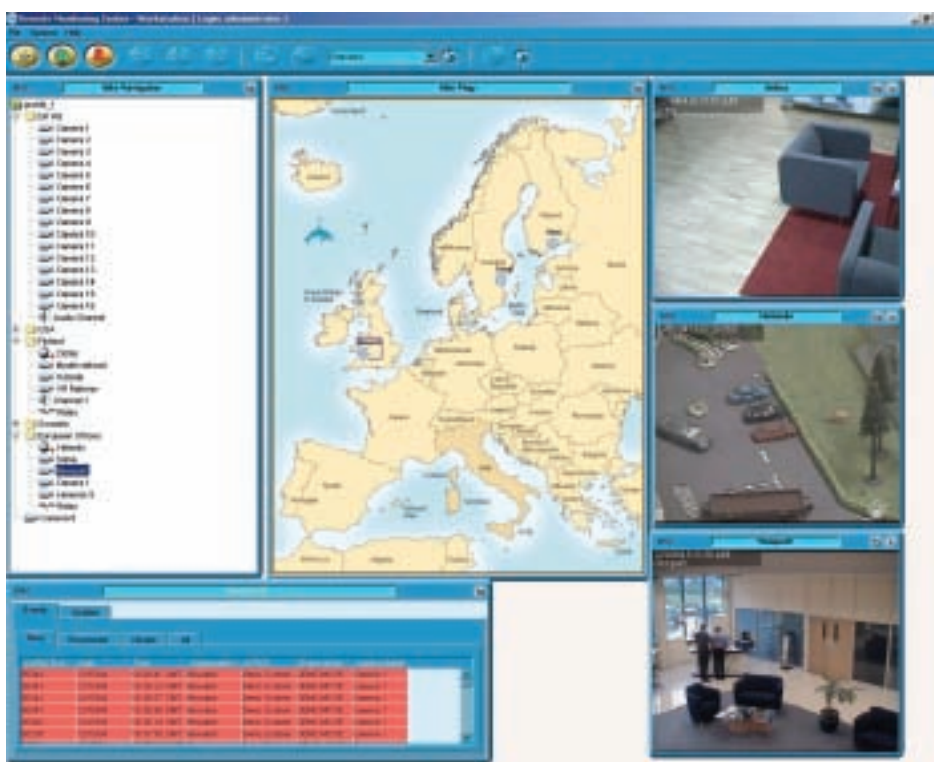
Eventys RMC Remote Management Centre

Eventys Remote Monitoring Centre is a solution for centralised monitoring and control of a number of remote sites. Eventys RMC connects to Eventys Pro servers over LAN, WAN and ISDN to provide a secure and powerful multi site management system.

RMC monitors and controls alarms inputs and outputs, and has access to live and recorded CCTV video from each site. Logs are kept of all user and system activity for reference and evidential purposes.

The RMC system is easily scalable according to user requirements from a single monitoring PC to a system of up to eight parallel workstations with access to 100 video recorders and up to 1600 remote cameras.

Eventys RMC can be integrated with other systems like Access Control and Point-of-Sales. This enables seamless data communication as well as common database and user interface between the systems.



Features

- Active Connections with up to 100 Remote DVRs
- 1600 Camera Connections
- Alarm search and playback of remote DVR Video
- User Management Accounts and activity logs
- Connection over LAN, WAN, Internet, ADSL and ISDN
- Easily Export remote site video to local storage
- Graphical maps with “point and click” cameras
- Remote Control of Dome and PTZ cameras
- Intuitive Graphical Interface
- Effective SQL database with a reporting tool
- Seamless System Integration with Access Control and POS systems

RMC software allows Eventys Pro systems to be remotely monitored, controlled, and administered by connecting to them using Internet Protocol (IP).

RMC software must be installed on PCs running Windows 2000 or XP with the following minimum specifications:

RMC Server - 1.5 GHz Intel P4, 512 MB RAM, 16 MB display adaptor, 1 free USB port

RMC Workstation - 2 GHz Intel P4, 256 MB RAM, 32 MB display adaptor

Eventys RMC Remote Management Centre

Eventys RMC Remote Management Centre

Model No.

EV-RMC



General Description

Eventys RMC Remote Monitoring Centre is a solution for centralised monitoring and control of several remote surveillance sites. It opens a new era in video surveillance - the evolution of Closed Circuit television (CCTV) towards Open Circuit Television (OCTV) by breaking the chains of coax cables and extending the accessibility of the system over networks – no more limitations of time and place! The versatile features of the Eventys RMC facilitate new security services and create a dedicated platform for cost-effective centralised video surveillance.

Environmental

- Active connection with up to 100 Eventys DVMS and 1600 video cameras
- Up to eight RMC Workstations per RMC Server
- Communication over TCP/IP networks (LAN, WAN, ADSL, ISDN)
- Support for WMC9 and JPEG compression
- Intuitive user interface - cameras and other devices are shown on the site Navigator list and as icons on the Site Map
- Real-time camera windows with remote dome camera control and digital zoom remote sites
- Advanced search tool with time/date, motion and graphical activity search, alarm list, and audio activity search for efficient data retrieval. Copying of images and sequences on CD/DVD as AVI files
- Remote device control through relay outputs
- Alarm messages from remote sites on the alarm list RMC Workstations with optional pop-up camera windows

Video Control

Price £ R.R.P.	EV-RMC-1WS-1DVR	Eventys Remote Monitoring Centre (RMC) software For 1 workstation & 1 DVR*	2,280.00
	EV-RMC-1WS-10DVR	Eventys Remote Monitoring Centre (RMC) software For 1 workstation & 10 DVR*	3,870.00
	EV-RMC-1WS-20DVR	Eventys Remote Monitoring Centre (RMC) software For 1 workstation & 20 DVR*	5,295.00
	EV-RMC-1WS-30DVR	Eventys Remote Monitoring Centre (RMC) software For 1 workstation & 30 DVR*	7,285.00
	EV-RMC-1WS-40DVR	Eventys Remote Monitoring Centre (RMC) software For 1 workstation & 40 DVR*	8,225.00
	EV-RMC-1WS-50DVR	Eventys Remote Monitoring Centre (RMC) software For 1 workstation & 50 DVR*	10,355.00
	EV-RMC-1WS-100DVR	Eventys Remote Monitoring Centre (RMC) software For 1 workstation & 100 DVR*	15,777.00
	EV-RMC+1WS	Eventys Remote Monitoring Centre (RMC) additional workstation license	850.00
	EV-RMC+1DVR	Eventys Remote Monitoring Centre (RMC) additional DVR license	210.00
	EV-RMC+5DVR	Eventys Remote Monitoring Centre (RMC) additional 5 DVR license	850.00

Control Equipment,
Recording and
Monitors

* Note: Includes Server and Client setup software. IT equipment to run this software is NOT included

Tel: 0871 386 0810

E-mail: sales.support@bewator.co.uk

Web: www.bewator.co.uk

Eventys Pro Net DVMS

Eventys Pro Net Digital Video Management System

The Eventys Pro Net offers the very latest in digital technology. In addition to supporting IP and analogue cameras simultaneously, Eventys Pro Net now offers up to 4CIF / D1 resolution at real time recording 16 channels (subject to model). Using a combination of the very latest processor power and MPEG4 compression with up to 3TB of internal RAID storage, Eventys Pro Net is capable of providing solutions for the most demanding of applications.

Key Features

- 16 or 32 analogue video channels
- MPEG4 or JPEG Compression
- Up to 400FPS Frame Rate
- IP and Analogue cameras simultaneously
- Built-in DVD Writer
- Built-in RAID on 1TB, 2TB and 3TB Models
- Separate system disk leaving storage disks for pure video
- Internal Temperature Management
- Audio options for 2 or more channels *
- Advanced and easy to use replay features incorporating intuitive searching (graphical, event, motion, date & time)

Robust, reliable and cost effective storage

The Eventys Pro Net range can have up to 3TB of internal RAID storage. Machines are available from 1TB, up to a massive 3TB of internal storage. This allows Eventys Pro Net to store high quality images for more than 60 days. The Eventys Pro Net DVR's are configured for RAID0 but can easily be changed to RAID5 for critical storage. All machines are fitted with a separate 20GB drive that contains the operating system, leaving the storage drives completely free for pure video storage.

NVR version

Eventys Pro Net is also available as a pure NVR with support for Megapixel cameras. The NVR can support up to 50 network cameras and simultaneously support JPEG and MPEG4 streams.

Clear intuitive interface

Eventys Pro Net has been designed to be easy to use with familiar tree structures to all elements of the system. The powerful profile editor allows the administrator to set user privileges and access to system elements.

- Individual camera recording and event settings
- Advanced retrospective motion detector
- Integrates with Visilynx video matrices
- Compatible with Molynx protocol and 3rd party dome cameras (via additional RS485 adaptor)
- Image authentication
- Backup/archive/redundancy
- Tools that permit image enhancement without altering master recording copy
- Integrates with Bewator Granta and 2010 Access Control Systems

Unique features

Eventys Pro Net has been designed to provide a high performance flexible solution for video, audio and alarm management.

Voice over IP

Eventys Pro Net supports VOIP which allows audio channels to be set up over IP networks.

Analogue audio

Each machine can be equipped to handle up to 16 audio channels. These can be set up to alarm on high or low audio; they can also be associated with a video channel for fully synchronised sound recording.

Analogue video out

The machine can be equipped with an analogue video out card that allows user switching of video input channels to analogue output channels. The machines are also fitted with dual VGA output cards that also support analogue out.



PLEASE NOTE: Due to the complexity and power of Eventys Pro NET DVMS design and price is on application. In certain configurations a Client / Server set-up may be required.

Eventys Pro Net DVMS

Eventys Pro Net Digital Video Management System

Model No.

EVN25-R16 / EVN12-R16 / EVN3-R32



(Monitor not supplied – see pages 261 to 264)

General Description	The Eventys Pro Net Digital Video Management System offers the very latest in digital technology. In addition to supporting IP and analogue cameras simultaneously, Eventys Pro Net now offers up to 4CIF / D1 resolution at real time recording 16 channels (subject to model). Using a combination of the very latest processor power and MPEG4 compression with up to 3TB of internal RAID storage, Eventys Pro Net is capable of providing solutions for the most demanding of applications	
Model Options	16 or 32 Channels 25fps @ D1 MPEG 4 only, 12.5fps @ CIF MPEG4 or JPEG, 3fps MPEG4 or JPEG 1TB, 2TB or 3TB Hard Drives All Frame Rates are quoted on a per camera basis	
Environmental	Internal Use Only	
Temperature	5 to 40°C	
Electrical	115 / 230Vac, 50-60Hz	
Dimensions H x D x D (mm)	168 x 448 x 427	
Price POA	The Models listed below have resolutions between CIF and 4CIF. For D1 recording options please contact our Sales Support team	
Due to the complexity and power of Eventys Pro NET DVMS design and price is on application	EVN25-R16-1TB	16 Channel, 400IPS, MPEG4, 1TB RAIDo Hard Drive
	EVN25-R16-2TB	16 Channel, 400IPS, MPEG4, 2TB RAIDo Hard Drive
	EVN25-R16-3TB	16 Channel, 400IPS, MPEG4, 3TB RAIDo Hard Drive
	EVN12-R16-1TB	16 Channel, 200IPS, MPEG4 or JPEG, 1TB RAIDo Hard Drive
	EVN12-R16-2TB	16 Channel, 200IPS, MPEG4 or JPEG, 2TB RAIDo Hard Drive
	EVN12-R16-3TB	16 Channel, 200IPS, MPEG4 or JPEG, 3TB RAIDo Hard Drive
	EVN3-R32-1TB	32 Channel, 96IPS, MPEG4 or JPEG, 1TB RAIDo Hard Drive
	EVN3-R32-2TB	16 Channel, 96IPS, MPEG4 or JPEG, 2TB RAIDo Hard Drive
	EVN3-R32-3TB	32 Channel, 96IPS, MPEG4 or JPEG, 3TB RAIDo Hard Drive
Price POA	Client Desktop PC for Eventys Pro Net, workstation software installed, one site configuration required (monitor not supplied – see pages 261 to 264)	
Eventys Pro Net DVMS Client and Accessories	16 Channel Loop-Through Card for 19" Rack	
	Input / Output Card (16 inputs / 8 outputs)	
	USB-RS485 Converter	
	Integration License, required for Granta or 2010 Access Control Systems	

Video Control

Control Equipment,
Recording and
Monitors



SISTORE MX – the hybrid video recording system for Banks



SISTORE MX can be used in a wide range of applications including banking, due to its ability to connect a large number of ATM machines and to allow easy searching of transactions via specific key words. In case of alarm, remote dialup over a network displays images to the operator or control room. Plus, SISTORE MX is "UVV Kassen" certified – the highest certification standard in Germany, required by all banks. Equipped with Siemens Hybrid Technology, SISTORE MX also offers the ability to simultaneously connect both analogue and digital IP cameras for a total of 64 cameras.

www.siemens.com/sistoremx

Building Technologies

SIEMENS

Siemens SISTORE Digital Recording Systems

The range of SISTORE Digital Video Systems provide digital surveillance and image recording that can be used in a multitude of applications. This can be from small shops, to shopping centres, offices or large scale industrial facilities - the systems are designed to meet the demanding needs required from today's security applications.

The SISTORE range consists of two key system areas: Digital Recording and Networked Video. For Digital Recording, there are two families of products available: SISTORE MX (a hybrid system recording for both analogue and digital cameras, 64 cameras in total per unit) and SISTORE AX (a traditional digital recording system for up to 16 cameras per unit). For Networked Video, there is the SISTORE CX family, an intelligent digital video CODEC capable of performing multiple tasks simultaneously over a network, for up to 8 cameras per unit.

All systems offer alarm connections from external devices such as door/window contacts, or passive infrared detectors and in case of alarm, can remote dialup over a network to display images to the operator or control room.



- A complete range of recording systems from small to large applications
- SISTORE AX for 4, 9 and 16 cameras
- SISTORE MX for 16, 24 and 32 cameras & 16 IP cameras
- SISTORE CX intelligent digital video CODEC with virtual matrix facility

SISTORE Digital Recording Systems

SISTORE AX

Model No.	AX4 Lite	AX4 160/100
		
General Description	SISTORE AX 4 Lite is an entry-level stand-alone Digital Video Recorder, suitable for a wide range of applications, e.g. for gas filling stations, retail outlets or residential buildings Remote Access: Various network interfaces, e.g. Ethernet, DSL or modem, allow remote access to the system. Monitoring, playback, configuration, upgrade, system check and map integration is possible via RAS software. Secure Images: "Chained Fingerprint" enabling a solid chain of evidence prevents the images from being altered or modified. Clip-Copy: Copy video clips to an external USB device; no special software is required for the review of the video clips on a PC	SISTORE AX 4 is a compact, stand-alone Digital Video Recorder, combining fast recording with a great deal of functionality Record Modes: Time-lapse recording, event-driven recording and pre-event recording modes are available. Recording by camera and by event can also be programmed. Remote Access: It is possible to transmit video over various network types. The remote access software enables duplex operation via an IP Network, connecting to up to 16 remote SISTORE AX devices. Secure Images: Encryption ensures the protection of recorded data against tampering. Alarm Log: The alarm log includes power on, video loss and alarms; including camera number, time and date. Upon selecting an alarm, the related camera image is immediately displayed
Video Inputs	4 Inputs, BNC, 75 Ohm, loop through	4 Inputs, BNC, 75 Ohm, loop through
Recording Speed	100IPS	100IPS
Storage Capacity	160GB Hard Drive	160GB Hard Drive, extended to 410Gb with 250Gb extension kit
Audio Inputs	N/A	4 / 1 RCA
Monitor Outputs	1 x Composite (BNC), 1 x VGA	1 x BNC, 1 x S-VHS (75 Ohm), 1 x VGA
Display Formats	1, 4, Sequence, Freeze, Covert	1 (full screen), 2 x 2 (quad)
Digital Zoom	Yes	x2
Alarms	4 x NC or NO, 2 relays out (NC or NO, 0.5A at 125Vac, 1A at 30Vdc), 1 x alarm reset input	4 x / 2 x NO or NC contacts, video loss detection with alarm, 16 x 12 motion zones, 1 x contact, 1 x internal buzzer (80dB at 10cm), 1 x panic button (front panel)
Connectors	1 x Ethernet 10/100BaseT, RS232C for external modem, RS232 & USB	1 x Ethernet 10/100 BaseT, 1 x RS232 DM9s, 1 x RS485 terminal block, 1 x USB
Environment	5 to 40°C	5 to 40°C
Electrical	100 – 240Vac	100 – 240Vac
Dimensions H x W x D (mm)	46.5 x 340 x 310	44 x 430 x 352
Keyboard Option	CKA4820 Remote Control Keyboard	CKA4820 Remote Control Keyboard
Price £ R.R.P.	1,070.00	1,470.00

SISTORE Digital Recording Systems

SISTORE AX

Model No.	AX9 250/50	AX9 250/200
		
General Description	SISTORE AX9 250/50 is a compact, low-maintenance video recording system, combining fast recording with a great deal of functionality. Remote Access: It is possible to transmit video over various network types. The remote access software enables duplex operation via an IP Network, connecting to up to 16 remote SISTORE AX devices. Secure Images: Encryption ensures the protection of recorded data against tampering. Alarm Log: The alarm log includes power on, video loss and alarms; including camera number, time and date. Upon selecting an alarm, the related camera image is immediately displayed	SISTORE AX9 250/200 is an entry-level stand-alone Digital Video Recorder, suitable for a wide range of applications, e.g. for gas filling stations, retail outlets or public buildings Remote Access: Various network interfaces, e.g. Ethernet, DSL or modem, allow remote access to the system. Monitoring, playback, configuration, upgrade, system check and map integration is possible via RAS software. Secure Images: "Chained Fingerprint" enabling a solid chain of evidence prevents the images from being altered or modified. Clip-Copy: Copy video clips to an internal DVD-RW or external USB device; no special software is required for the review of the video clips on a PC
Video Inputs	9 Inputs, BNC, 75 Ohm, loop through	9 Inputs, BNC, 75 Ohm, loop through
Recording Speed	50IPS	200IPS
Storage Capacity	250GB Hard Drive, extended to 500Gb with 250Gb extension kit	250GB Hard Drive, extended to 500Gb with 250Gb extension kit
Audio Inputs	1 x / 1 RCA	4 / 1 RCA
Monitor Outputs	2 x BNC, 1 x S-VHS (75 Ohm), 1 x VGA	1 x Composite, 1 x S-VHS, 4 x Spot, 1 x VGA
DVD -RW	N/A	Built in DVD-RW, USB (HDD, DVD-RW, FlashDrive)
Alarms	9 x /2 x NO or NC contacts, video loss detection with alarm, 16 x 12 motion zones, 1 x No contact, 1 x reset button, 1 x internal buzzer (80dB at 10cm),	Video loss detection with alarm, 16 x 12 motion zones, 1 x internal buzzer (80dB at 10cm)
Connectors	1 x Ethernet 10/100 BaseT, 1 RS232, DB9s, PTZ control with 1 x RS485, DB25S, incl. I/O board	1 x Ethernet 10/100 BaseT, DSL, External Modem, RS232, RS485, 3 x USB, UltraSCSI
Environment	5 to 40°C	5 to 40°C
Electrical	100 – 240Vac	100 – 230Vac
Dimensions H x W x D (mm)	44 x 430 x 399	88 x 430 x 405
Keyboard Option	CKA4820 Remote Control Keyboard	Supplied with IR remote programming hand held control
Price £ R.R.P.	2,915.75	4,076.00

Video Control

Control Equipment,
Recording and
Monitors

SISTORE Digital Recording Systems

SISTORE AX

Model No.	AX16 250/50	AX16 250/200
		
General Description	SISTORE AX16 250/50 is a compact, low-maintenance video recording system, combining fast recording with a great deal of functionality. Remote Access: It is possible to transmit video over various network types. The remote access software enables duplex operation via an IP Network, connecting to up to 16 remote SISTORE AX devices. Secure Images: Encryption ensures the protection of recorded data against tampering. Alarm Log: The alarm log includes power on, video loss and alarms; including camera number, time and date. Upon selecting an alarm, the related camera image is immediately displayed	SISTORE AX16 250/200 is an entry-level stand-alone Digital Video Recorder, suitable for a wide range of applications, e.g. for gas filling stations, retail outlets or public buildings Remote Access: Various network interfaces, e.g. Ethernet, DSL or modem, allow remote access to the system. Monitoring, playback, configuration, upgrade, system check and map integration is possible via RAS software. Secure Images: "Chained Fingerprint" enabling a solid chain of evidence prevents the images from being altered or modified. Clip-Copy: Copy video clips to an internal DVD-RW or external USB device; no special software is required for the review of the video clips on a PC
Video Inputs	16 Inputs, BNC, 75 Ohm, loop through	16 Inputs, BNC, 75 Ohm, loop through
Recording Speed	50IPS	200IPS
Storage Capacity	250GB Hard Drive, extended to 500Gb with 250Gb extension kit	250GB Hard Drive, extended to 500Gb with 250Gb extension kit
Audio Inputs	1 x / 1 RCA	4 / 1 RCA
Monitor Outputs	2 x BNC, 1 x S-VHS (75 Ohm), 1 x VGA	1 x Composite, 1 x S-VHS, 4 x Spot, 1 x VGA
DVD -RW	N/A	Built in DVD-RW, USB (HDD, DVD-RW, FlashDrive)
Display Formats	1 (full screen), 2 x 2 (quad), 3 3x (multi screen), PIP	Built in CD-RW, USB (HDD, CD-RW, FlashDrive)
Alarms	16 x / 2 x NO or NC contacts, video loss detection with alarm, 16 x 12 motion zones, 1 x No contact, 1 x reset button, 1 x internal buzzer (80dB at 10cm),	Video loss detection with alarm, 16 x 12 motion zones, 1 x internal buzzer (80dB at 10cm)
Connectors	1 x Ethernet 10/100 BaseT, 1 RS232, DB9s, PTZ control with 1 x RS485, DB25S, incl. I/O board	1 x Ethernet 10/100 BaseT, DSL, External Modem, RS232, RS485, 3 x USB, UltraSCSI
Environment	5 to 40°C	5 to 40°C
Electrical	100 – 240Vac	100 – 230Vac
Dimensions H x W x D (mm)	44 x 430 x 399	88 x 430 x 405
Keyboard Option	CKA4820 Remote Control Keyboard	Supplied with IR remote programming hand held control
Price £ R.R.P.	3,288.50	5,083.75

SISTORE Digital Recording Systems

SISTORE MX

Model No.

MX4 / MX8 / MX16 / MX24 / MX32



General Description

SISTORE MX is a flexible, digital surveillance and image recording system that can be used in a multitude of applications. From shopping centres, to offices or large scale industrial facilities, the system is designed for all applications. Due to the integration of a pixel-based motion detection system, surveillance is possible both in and outdoors. In case of alarm, remote dialup over a network displays images to the operator or control room, additional notification via e-mail or SMS is also possible. User-friendly software ensures professional results and easy handling. Fast searching of images can be done using a mask function, using the “Easy-search” facility - searching only the masked area for activity. An on-screen keyboard allows full control of PTZ devices, including setting and calling presets. Under normal conditions, SISTORE MX systems require no intervention and no tapes to change and maintain.

Five variants are available – from 4 to 32 camera inputs, 16 IP cameras, 250GB to 750GB Hard Drives and 50IPS to 100IPS

Video Inputs	Max 16 x CCVS (BNC sockets) and 16 x IP camera inputs over LAN		
Recording Speed	50IPS to 200IPS		
Storage Capacity	250GB to 750GB Hard Drive		
Monitor Outputs	1 x VGA, 2 x CCVS (BNC socket)		
Alarms	16 Trigger inputs, alarm signalling via - monitor connection, digital output, LAN/WAN to RemoteView Station		
Connectors	2 x RS485, 1 x LAN, 4 x USB, 1 x SCSI, 1 x VGA, 1 x Audio in, 1 x Mic in, 1 x Audio out		
Environment	5 to 35°C		
Electrical	100 to 230Vac,		
Dimensions H x W x D (mm)	87 x 430 x 370		
Price £ R.R.P.	MX4 250/50 MX8 250/50 MX16 500/100 MX24 500/100 MX32 750/100	4 Cameras, LAN, 250GB Hard Drive, 50IPS 8 Cameras, LAN, 250GB Hard Drive, 50IPS 16 Cameras, LAN, 500GB Hard Drive, 100IPS 24 Cameras, LAN, 500GB Hard Drive, 100IPS 32 Cameras, LAN, 750GB Hard Drive, 100IPS	3,831.00 4,968.75 5,456.25 5,748.25 6,040.25

Video Control

Control Equipment,
Recording and
Monitors

SISTORE Digital Recording Systems

SISTORE MX DVD

Model No.

MX3204 / MX3208 / MX3216 / MX3232



General Description

SISTORE MX DVD is a flexible, digital surveillance and image recording system that can be used in a multitude of applications. From shopping centres, to offices or large scale industrial facilities, the system is designed for all applications. Due to the integration of a pixel-based motion detection system, surveillance is possible both in and outdoors. In case of alarm, remote dialup over a network displays images to the operator or control room, additional notification via e-mail or SMS is also possible. User-friendly software ensures professional results and easy handling. Fast searching of images can be done using a mask function, using the "Easy-search" facility - searching only the masked area for activity. An on-screen keyboard allows full control of PTZ devices, including setting and calling presets. Under normal conditions, SISTORE MX systems require no intervention and no tapes to change and maintain.

Four variants are available, all with integrated DVD writer – from 4 to 32 camera inputs, 32 IP cameras, 250GB to 1TB Hard Drives and 150IPS to 200IPS

Video Inputs	32 (16 for type 3204) x CVBS (BNC sockets), 32 x IP camera inputs over LAN		
Recording Speed	150IPS to 200IPS		
Storage Capacity	250GB to 1TB Hard Drive		
Monitor Outputs	1 x VGA, 2 x CCVS (BNC socket)		
Alarms	16 Trigger inputs, alarm signalling via - monitor connection, digital output, LAN/WAN to RemoteView Station		
Connectors	2 x RS485, 1 x LAN, 4 x USB, 1 x SCSI, 1 x VGA, 1 x Audio in, 1 x Mic in, 1 x Audio out		
Environment	5 to 35°C		
Electrical	100 to 230Vac,		
Dimensions H x W x D (mm)	87 x 430 x 370		
Price £ R.R.P.	MX3204 250/150 DVD MX3208 250/150 DVD MX3216 500/200 DVD MX3232 1000/200 DVD	4 Cameras, LAN, 250GB Hard Drive, 150IPS, DVD 8 Cameras, LAN, 250GB Hard Drive, 150IPS, DVD 16 Cameras, LAN, 500GB Hard Drive, 200IPS, DVD 32 Cameras, LAN, 1TB Hard Drive, 200IPS, DVD	4,287.00 5,262.00 4,287.00 6,129.00

SISTORE Digital Recording Systems

SISTORE CX4

Model No.

CX4 000/ CX4 250 / CX4 500 / CX4 1000



General Description

SISTORE CX 4 is an intelligent digital video CODEC for video transmission and recording. Developed using the latest Siemens IT technology, SISTORE CX is particularly suited for applications requiring video transmission or recording in IP network installations. SISTORE CX is an encoder and decoder at the same time, providing excellent scalability and transparent communication using client stations located throughout the network. It can be used to build a “virtual video matrix”, providing video over IP streams for display on analogue output devices or PC based software decoders.

Network Transparency: SISTORE CX supports video transmission over various network topologies. The remote client offers simultaneous live video display and archive replay while recording at different SISTORE CX stations.

Freely Definable Modes of Recording: The SISTORE CX control generator allows the operator to configure each camera on an individual basis to ensure optimal operation tailored to the application's needs.

Platform Independency: Entirely programmed in JAVA™, the client software can either be run in a web browser, regardless of the PC operating system, or installed as an application optimized for performance on a Windows system

Four variants are available – with 4 camera inputs, no Hard Drive to 1TB Hard Drives and 100IPS

Operating Modes Video In and Out	4/0, 2/0, 2/1, 1/1, 0/2		
Recording Speed	100IPS		
Storage Capacity	0GB, 250GB, 2 x 250GB or 2 x 500GB Hard Drive		
Digital Inputs	4/4		
Motion and Tamper Detection	For each video input		
Video Signal	Loss Detection		
Ethernet	1 x 10/100Mbit		
Transparent Data Channel	1 x RS232 and 1 x RS485		
Service Interface	1 x USB 1.1		
Environment	5 to 40°C		
Electrical	Max 12Vdc / 5amp (100 – 240Vac adapter included)		
Dimensions H x W x D (mm)	45 x 440 x 380		
Price £ R.R.P.	CX4 000/100	4 Cameras, Streaming only, 100IPS	2,400.75
	CX4 250/100	4 Cameras, 250GB Hard Drive, 100IPS	2,700.25
	CX4 500/100	4 Cameras, 500GB Hard Drive, 100IPS	3,000.25
	CX4 1000/100	4 Cameras, 1TB Hard Drive, 100IPS	5,068.00

Video Control

Control Equipment,
Recording and
Monitors

SISTORE Digital Recording Systems

SISTORE CX8

Model No.

CX8 000/ CX8 500 / CX8 1000



General Description

SISTORE CX 8 is an intelligent digital video CODEC for video transmission and recording. Developed using the latest Siemens IT technology, SISTORE CX is particularly suited for applications requiring video transmission or recording in IP network installations. SISTORE CX, encoder and decoder at the same time, provides excellent scalability and transparent communication using client stations located throughout the network. It can be used to build a “virtual video matrix”, providing video over IP streams for display on analogue output devices or PC based software decoders.

Network Transparency: SISTORE CX supports video transmission over various network topologies. The remote client offers simultaneous live video display and archive replay while recording at different SISTORE CX stations.

Freely Definable Modes of Recording: The SISTORE CX control generator allows the operator to configure each camera on an individual basis to ensure optimal operation tailored to the application's needs.

Platform Independency: Entirely programmed in JAVA™, the client software can either be run in a web browser, regardless of the PC operating system, or installed as an application optimized for performance on a Windows system

Three variants are available – with 8 camera inputs, no Hard Drive to 1TB Hard Drives and 200IPS

Operating Modes Video In and Out	8/0, 4/0, 4/2, 2/2, 0/4, 3/1, 6/1		
Recording Speed	200IPS		
Storage Capacity	0GB, 2 x 250GB or 2 x 500GB Hard Drive		
Digital Inputs	8/8		
Motion and Tamper Detection	For each video input		
Video Signal	Loss Detection		
Ethernet	1 x 10/100Mbit		
Transparent Data Channel	1 x RS485		
Service Interface	1 x USB 1.1		
Environment	5 to 40°C		
Electrical	100 – 230Vac		
Dimensions H x W x D (mm)	87 x 430 x 370		
Price £ R.R.P.	CX8 000/200	8 Cameras, Streaming only, 200IPS	3,995.25
	CX8 500/200	8 Cameras, 500GB Hard Drive, 200IPS	4,995.25
	CX8 1000/200	8 Cameras, 1TB Hard Drive, 200IPS	5,995.25

SISTORE Digital Recording Systems

SISTORE CX EDS

Model No.

CX4 EDS / CX8 EDS



General Description

SISTORE CX EDS is a video motion detection system featuring the latest Siemens technology for perimeter protection. Motion detection and object tracking are based on the latest statistical image analysis methods, optimized for use in critical outdoor areas. By using SISTORE CX devices, MPEG4 video recording and transmission as well as a tamper detection function are additionally available. All functionalities can be optimally adapted to the actual environmental conditions using the configuration software. EDS (Enhanced Detection Solution) is a software option that is available for all devices of the SISTORE CX platform. After activation of this function, the standard motion detection functionality is extended. Activating is easily done by entering the requisite licence key in the configuration software.

Standard Tracking Mode Encoding 4CIF / 2CIF / CIF

SISTORE CX4 – 2 video inputs – 6.25 / 12.5 / 25IPS
SISTORE CX4 – 4 video inputs – 1 / 3.12 / 6.25IPS
SISTORE CX8 – 4 video inputs – 6.25 / 12.5 / 25IPS
SISTORE CX8 – 8 video inputs – 1 / 3.12 / 6.25IPS

Enhanced Tracking 4CIF / 2CIF / CIF

SISTORE CX4 – 2 video inputs – 3.12 / 6.25 / 12.5IPS
SISTORE CX4 – 4 video inputs – 3.12 / 6.25 / 12.5IPS

Sensor Resolution

Pixel based, approx, 100,000 zones

Detection Modes

Motion Detection, enhanced motion detection and tamper detection

Sensor Elements

Static Trip Wire – up to 8 per video input, Dynamic Direction Field – detection of video loss, Changes in Illumination – automatic compensation

Configuration

Software Activation – via license key, Scene Modelling – 3D modelling, Parameter Sets 4 selectable alarms, Detection Point – object bottom or centre, Detection Parameters – time, sensitivity, size and speed

Display

Object Marking – frame and path of motion can be displayed separately

Alarm Output

1 x NO / NC contact per video output, alarm transmitted via LAN to Client software

System Integration

Siemens IVM (Interactive Video management System).

Price £ R.R.P.

CX4 EDS
CX8 EDS

EDS software option for SISTORE CX4
EDS software option for SISTORE CX8

1,560.00
3,119.00

Video Control

Control Equipment,
Recording and
Monitors

SISTORE Digital Recording Systems

SISTORE Accessories

Model No.

MX4 / MX8 / MX16 / MX16



General Description

SISTORE MX NVR software provides a highly professional PC-based Network Video Recorder solution (NVR) for 4 to 32 IP cameras. You do not need a SISTORE device for this. SISTORE MX NVR offers a wide range of functions, including live image display, recording, playback and remote enquiry. After SISTORE MX NVR has been installed, you can connect network cameras (IP cameras) and video servers from different manufacturers to monitor rooms, buildings, production facilities, sensitive public places and security-relevant outdoor areas of any kind and simultaneously record the camera signals

SISTORE MX NVR Server & Hardware

Operating system: Windows XP SP2
Operating system language: English and German
Screen resolution: 1024 x 768 or 1280 x 1024 pixels
Colour depth: 16 Bit high colour
Processor: Pentium 4
Speed: 2.4GHz or higher;
Main memory: 1024MB RAM or higher;
File system: NTFS
Free hard drive capacity: 12 GB or more
System partition C: at least 10GB
Archive drive: at least one archive drive

RemoteView or WebView or Demo & Hardware

Operating system: Windows XP SP2
Operating system language: English and German
Screen resolution: 1024 x 768 or 1280 x 1024 pixels
Colour depth: 16 Bit high colour
Processor: Pentium 4
Speed: 2.4 GHz or higher;
Main memory: 512MB RAM or higher;
File system: NTFS
Free hard drive capacity: 60GB or more
System partition C: at least 10GB

Price £ R.R.P.

MX4 NVR	Software license for 4 networked cameras	689.75
MX8 NVR	Software license for 8 networked cameras	2,309.75
MX16 NVR	Software license for 16 networked cameras	2,337.75
MX32 NVR	Software license for 32 networked cameras	3,150.00

SISTORE Digital Recording Systems

SISTORE Accessories

Model No.	AX-HDE	MX-HDE 250
		
General Description	250GB Hard Disk Upgrade for SISTORE AXMX DVRs	250GB Hard Disk Upgrade for SISTORE MX
Price £ R.R.P.	280.75	280.75

Model No.	MX-HDE 500	CKA4820
		
General Description	500GB Hard Disk Upgrade for SISTORE MX DVRs	Variable Speed Keyboard Controller with pan-tilt-zoom control, LCD and 3-axis joystick
Price £ R.R.P.	1,178.75	882.00

Model No.	MX 8/100 CAM	MX 4 VOB	MX SCSI
			
General Description	Activation of 8 Further Cameras for SISTORE MX DVRs	Activation of 4 Video Outputs for SISTORE MX DVRs	Activation of SSCI Port for SISTORE MX DVRs
Price £ R.R.P	1,100.25	701.75	1,375.00

Video Control

Control Equipment,
Recording and
Monitors



Perimeter protection for high security installations....



In light of the changing global safety and security considerations, and due to the never-ending effort to maximise resource productivity, private companies, together with local and national governments place the protection of utility infrastructures, electricity facilities and power networks, at the top of their priorities. Also protecting perimeters for external installations such as prisons, airports, military compounds and borders are a clear necessity. With SISTORE CX EDS, a professional outdoor video motion detection system, with object tracking, any external perimeter is sure to remain secure. This matched with the experience that Siemens can offer you, will ensure trouble-free installations...

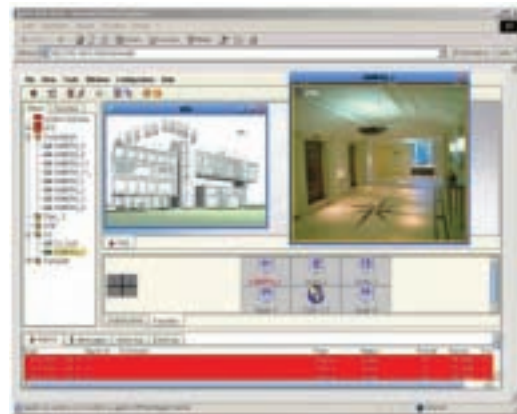
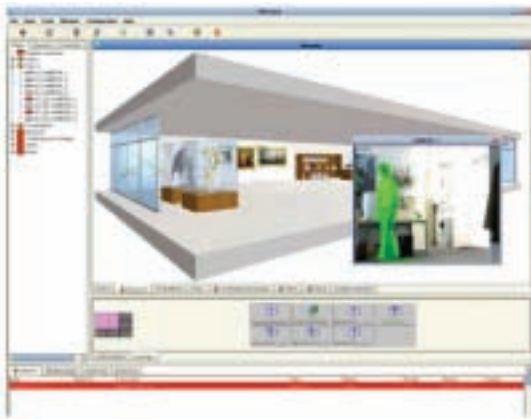
www.siemens.com/eds

Building Technologies

SIEMENS

Siemens IVM Client

Siemens IVM is an Interactive Video Management System. It is possible for the user to carry out the entire video management using IVM, from the generation of site plans or system configuration, to display, selection and control of individual video components or external systems. Via system interfaces, it is possible to generate event controlled reports and alarms or to display, evaluate or document process information from specified systems



- Efficient video surveillance by use of event control
- Modular system - universal implementation
- Client/server architecture - single and multi-site system
- High degree of flexibility for multi-site systems thanks to user-specific operating rights and alarm management

Video Control

Control Equipment,
Recording and
Monitors

Siemens IVM Client

IVM Client

Model No.	COIB 0201 - COIB 3216
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General Description	IVM Client enables the user to carry out the entire CCTV system using IVM, from the generation of site plans or system configuration, to display, selection and control of individual video components SISTORE AX/MX/CX, I/O Server or external systems. IVM can visualize, evaluate and document events and alarms. In case of an alarm, the switched-on live image allows the user to track the development of the situation. Simultaneously the sequences are recorded and documented. The recorded images and event data can then be easily replayed and analyzed in the IVM Client Features: Efficient video surveillance by use of event control, Modular system - universal implementation, Client/server architecture - single and multi-site system, High degree of flexibility for multi-site systems thanks to user-specific operating rights and alarm management, Cascading and control of a wide variety of data transfer media migration between analogue and digital components, Process optimization thanks to time-controlled command processing, Unified, user-friendly, multi-lingual graphical user interface, Log file of events and images		
Min PC Requirements for IVM Server / Client	CPU Pentium VI, 2 GHz or higher RAM Min. 25 MB RAM Graphics card SVGA 1024 x 768, high color, 32MB Hard disk drive 10GB Hard Drive Drives CD-ROM Operating system Windows 2000, Windows XP Video overlay card Available as an option with the IVM Client Dongle Wibu Key provided with the basic license		
Price £ R.R.P.	COIB 0201	IVM License, 16 inputs / 4 outputs	842.00
	COIB 0401	IVM License, 32 inputs / 4 outputs	1,683.50
	COIB 0801	IVM License, 64 inputs / 4 outputs	3,156.75
	COIB 1601	IVM License, 128 inputs / 8 outputs	4,092.00
	COIB 3202	IVM License, 255 inputs / 16 outputs	6,780.00
	COIB 3202	IVM License, 255 inputs / 32 outputs	7,599.25
	COIB 3208	IVM License, 255 inputs / 64 outputs	9,235.75
	COIB 3212	IVM License, 255 inputs / 96 outputs	12,860.00
	COIB 3216	IVM License, 255 inputs / 128 outputs	17,536.25
	COIS 3001	IVM License TELEMAT	590.60
	CRD1111-IVMNT	IVM Video Overlay Card	391.75

Video Control

Control Equipment,
Recording and
Monitors

Visilynx Matrix System

The Visilynx V3i is an extremely versatile matrix switcher, with 32 inputs and 8 outputs as standard. It can support small systems of just a few cameras, as well as larger, more complex systems.

Each system works as a building block, and can be linked to other V3i units, to form large, distributed matrix systems. For example, using a single expansion cable, link 2 V3i units to form a full 64x16 matrix



- 32 loop-through inputs with video loss detection
- 8 outputs with on-screen text
- 'C' & 'D' type bi-directional telemetry
- 128 alarms, 4 relays, 6 configurable serial ports, expansion port, and 2 card slots

Visilynx Matrix System

Visilynx 3i

Model No.

V3-ISU



General Description

Visilynx 3i is a powerful, feature rich, and cost effective integrated video matrix system. Built around its Integrated System Unit (ISU) building block, and installer configurable via configuration software that runs on a laptop PC, Visilynx 3i offers an off-the-shelf solution for the vast majority of video matrix applications. One or two Visilynx quad cards may be fitted in the ISU's internal card slots to provide additional quad screen video outputs. Visilynx 3 Integrated System Unit (ISU): 32 L/T inputs with video loss detection, 8 Outputs with on-screen text, C and D type telemetry. 128 Alarms, 4 relays, 6 configurable serial ports, exp. Ports and 2 card slots, 110-230Vac (INCLUDES configuration cable. EXCLUDES V-K keyboard)

System Features

3rd Party Domes: Solaris, Kalatel
CyberDome, Vista PowerDome, JVC TK-C675, Ultrak KD6, Dennard 2050/2060, VCL Orbiter/Microsphere, FV Mic1, Pelco Spectra via Pelco D, American Dynamics Siemens CCDA protocol soon to be implemented
128 alarm inputs
Up to 32 additional keyboards
99 camera presets per camera
Loop through facility
8 monitor outputs, with on screen text
PC control interface
Programmable video sequences
3-axis keyboard
Full variable speed

Supported Recording Equipment (Controlled via serial ports): Supported DVRs: Dedicated Micros Digital Sprite, Columbus Triplex, Bewator Eventys Lite, Generic DVRs (XML format)
Supported VCRs: Panasonic AG-6730, Sony SVT-100P or Sanyo TLS-S8000P
Supported Multiplexers (Controlled via serial port): Panasonic WJ-FS616, Montage, Tecton Drax, DM Uniplex.
Bi-directional Telemetry over Coax and Twisted Pair RS485/422
32 video inputs with video loss detection playback

Environmental

Internal Use Only

Temperature

0 to 50°C

Electrical

100 - 240Vac

Dimensions H x W x D (mm)

368 x 445 x 135 19", 3U rack mounting without feet. 445 x 368 x 150 (with feet)

Price £ R.R.P.

2,650.00

Video Control

Control Equipment,
Recording and
Monitors

Visilynx Matrix System

Accessories

Model No.	V-K	V3-QUAD
		
General Description	V-K Visilynx Keyboard is a high spec video control system with 3-axis joystick. It has a range of features and functions, allowing full configurability for almost any installation. The on-screen menus and commands are easy to use and understand. EXCLUDES VC-3K keyboard cable	Visilynx 3 Quad Card displays four high resolution colour pictures on a single Visilynx 3 video output in real time, with each segment controllable from the Visilynx keyboard as a separate monitor number. One or two quad cards can be fitted in a Visilynx 3 Integrated System Unit (V3-ISU), separate composite and S-Video outputs are available on the rear panel
Environment	Internal use only	Internal use only
Electrical	12Vdc	N/A
Price £ R.R.P.	1,050.00	699.00

Model No.	VC-3E	V3-CONF
		
General Description	Visilynx 3i ISU Expansion Cable is used to connect two 32x8 V3i Integrated System Units (ISUs) together to form a 64x16 full cross point matrix node. The cable links video and control signals between the ISUs and is the only cable required for linking.	V3 and RX3 Configuration Software for use with Visilynx 3 or an RX3 Telemetry Receiver. VisiPC is used for Visilynx configuration, and can also be used with both Visilynx and RX3 for fault diagnosis and logging, as well as for upgrading software and firmware in those products
Environment	Internal use only	N/A
Price £ R.R.P.	106.00	FOC Please Refer to Technical Support for Supply

Video Control

Control Equipment,
Recording and
Monitors

Visilynx Matrix System

Accessories

Model No.	PCBV331	VC-3K	VC-ALARM
			
General Description	Alarm Panel , accepts 128 pairs of contacts	Keyboard Cable , 3m (between V3-ISU and V-K keyboard)	Alarm Cable between PCBV331 and V3-ISU
Environmental	Internal use only	Internal use only	Internal use only
Price £ R.R.P.	499.00	49.00	65.00

Model No.	VC-PCCON	VC-3CONFIG	V3-PSU
			
General Description	RS232 Cable used for remotely controlling the system from a PC using PC-CON	Configuration Cable (between V3-ISU and PC)	Visilynx 3i Replacement Power Supply Unit
Environmental	Internal use only	Internal use only	Internal use only
Price £ R.R.P.	49.00	49.00	230.00

Telemetry Equipment

Bewator's Telemetry Protocol has long been recognised as one of the world's most advanced formats for telemetry controls.

We capitalised on our vast experience in this specialised field to bring you a new generation of telemetry receivers, specially designed to meet the challenges of today's CCTV systems.



- Coax Control Unit
- AC and DC fixed and variable models
- Optimum control and functionality
- Telemetry interface options 'C' and 'D' type
- RX3 enhanced multi protocol receiver with Privacy Functions

Video Control

Control Equipment,
Recording and
Monitors

Telemetry Equipment

Coax Control Unit

Model No.

CAC1601



General Description

Coax Control Unit is a combined coaxial telemetry transmitter, telemetry protocol converter and 16 by 4 video switcher. It allows SIEMENS Solaris™ speed domes and telemetry receivers to be controlled over the coax using up to 2 simultaneous telemetry control sources, as detailed in the system overview below.

Over the coax telemetry control of PTZ cameras can provide major cost benefits over RS485 control by eliminating the need to run twisted pair cables for telemetry in addition to coaxial cable. This is particularly useful when upgrading existing fixed camera applications to fully functional dome systems.

Many digital recorders do not support over the coax telemetry as standard. The Coax Control Unit has integrated video switching functionality (16 in / 4 out). This overall function set offers easy installation and flexible compact video surveillance systems. Each unit accepts multi-protocol RS485 telemetry commands from up to 2 control sources and converts the command string to Molynx-C coaxial telemetry. The innovative LCD screen allows quick and simple set up, with on board test/diagnostic facilities. An integral USB port is configured to accept commands from SISTORE MX, Eventys Pro or any third party PC front end delivering a supported protocol.

Video Inputs	16 loop through C-Type channels
Video Outputs	4 controllable monitor outputs (2 with PAL on-screen text)
Telemetry Inputs	2 x RS485 / 1 dual channel, USB Telemetry channel
Protocol Support	Siemens CCDA, Bewator Molynx, Bewator PC-CON, Ernitec ERNA, Pelco D, Pelco P, VCL, Vicon, Videmech Universal protocol
Set Up	LCD with adjacent control keys
Environmental	Internal use only
Temperature	0 to 40°C
Electrical	115 / 230Vac,
Price £ R.R.P.	499.00

Telemetry Equipment

TX-CONTROL

Model No.

TX-CONTROL



General Description

Third Party Dome Interface and PC Controlled Telemetry Transmitter

Third party dome interface: In this configuration the unit will translate Molynx Telemetry Protocol into a number of different third-party dome protocols, allowing domes manufactured by third parties to be controlled from Bewator telemetry controllers.

PC controlled telemetry transmitter: In this configuration the product allows the control of Molynx Telemetry Protocol products from an RS232 device, such as a PC. Molynx Telemetry Protocol is designed to be a high speed, real-time protocol, and many RS232 devices cannot meet the specifications required. The TX-Control solves this problem by acting as an interface between the RS232 device (for example a PC) and a telemetry controlled product, by translating the Molynx Telemetry Protocol into a simplified ASCII text protocol. Control interface configurable either as an interface between Bewator or Molynx Videmech equipment and third party domes via RS485, or as an interface to allow control Bewator or Molynx Videmech equipment from a PC (or other host system) via RS232.

Colour

RAL 7035 Light Grey

Material

Case: Flame retardant ABS to UL 94-Vo, Panels: Anodised aluminium

PC Controlled Telemetry Transmitter Compatibility

The TX-Control unit is compatible with Bewator 600 and 6000 Series telemetry controllers, RX210, RX217, RX217D, RX3 receivers and Do5, Do8, D15RX, D18RX and PTD domes

Third Party Dome Compatibility

Tx-Control can be used to interface between 6000 Series, 600 Series or Visilyn Controllers and third party domes or receivers. The Tx-Control software currently supports the following models of dome:

JVC: TK-C675E / TK-C675BE / TK-C676E, Panasonic: WV-CSR400 / WV-CSR600 / WV-CSR650 / WV-CSR850 / WV-CW860, Dennard: 2050, VCL: Orbiter / Microsphere, Ultrak: KD6, Samsung: SCC-641P / CBC ZC-S123P, Pelco: models using 'P' or 'D' protocol

Environmental

Internal use only

Temperature

0 to 50°C

Electrical

100 to 240Vac,

Price £ R.R.P.

415.00

Video Control

Control Equipment,
Recording and
Monitors



Does your video system see Everything?

Bewator, a Siemens Business offers one of the most comprehensive range of domes, cameras, digital video management systems, matrix systems, pan & tilt heads, housings and accessories.

Whether you specify, integrate or install security systems, you need solutions that are flexible enough to meet your requirements of today, whilst allowing for systems to be expanded or upgraded at a later date.

For Further information please contact us on 0871 386 0835



BEWATOR

A Siemens Business

Telemetry Equipment

Telemetry Receivers

Model No.	RX210-HSo1	RX210-PCBCD/12
		
General Description	TRX228 10 Function Receiver for HSo1 Housing Fitment. Compatible with all telemetry controllers All functions can be activated on the receiver for test purposes. 110 - 230Vac	TRX228 10 Function Receiver PCB Only for fixed speed AC systems with pan, tilt and auto iris zoom lenses. Compatible with all telemetry controllers All functions can be activated on the receiver for test purposes. 24 - 230Vac
Telemetry	'C' or 'D' Type	'C' or 'D' Type
Auxiliary Function	2 user configurable for wash, wipe etc	2 user configurable for wash, wipe etc
Mounting	N/A	PCB: 4 x 4mm holes
Shock	30G Max (packaged product)	30G Max (packaged product)
Air Pressure	70 – 100KPa	70 – 100KPa
Environment	IP66	Internal use only
Electrical	110 – 240Vac	12Vdc
Dimensions H x W x D (mm)	N/A	100 x 102 x 30
Price £ R.R.P.	310.00	190.00

Video Control

Control Equipment,
Recording and
Monitors

Telemetry Equipment

Telemetry Receivers

Model No.	RX217	RX217-PCBCD
		
General Description	TRX250 17 Function Preset Receiver. Offers preset positioning capability, for fixed speed AC systems with pan, tilt and zoom. Also gives iris control and auxiliary functions. Compatible with all Bewator telemetry controllers Mains socket outlet Options: Automatic home positioning. High current. IR lamp output. Available as board only. European and US mains socket. Setup of JVC 1360 camera Continuous preset sequence operation. 230Vac	TRX250 17 Function Preset Receiver PCB Only. Offers preset positioning capability, for fixed speed AC systems with pan, tilt and zoom. Also gives iris control and auxiliary functions. Compatible with all Bewator telemetry controllers. Mains socket outlet Options: Automatic home positioning. High current. IR lamp output. Available as board only. European and US mains socket. Setup of JVC 1360 camera Continuous preset sequence operation 12 - 230Vac
Telemetry	'C' or 'D' Type	'C' or 'D' Type
Auxiliary Function	User configurable	User configurable
Preset Tour Facility	Yes	
Preset Per Camera	16 (99 total)	16 (99 total)
Programmable Video Sequence	Yes	Yes
Mounting	4 x 6mm holes	5 x 6mm holes
Shock	30G Max (packaged product)	30G Max (packaged product)
Air Pressure	70 – 100KPa	70 – 100KPa
Environment	IP66	Internal use only
Electrical	230Vac	12Vdc
Dimensions H x W x D (mm)	254 x 164 x 135	195 x 120 x 30
Price £ R.R.P.	520.00	455.00

Telemetry Equipment

Telemetry Receivers

Model No.	RX318DZ	RX318DZ-E
		
General Description	RX3 18 Function Preset Receiver enables dc variable speed pre set pan & tilt camera heads to be optimally controlled to high precision in terms of dynamic speed range and positional accuracy. As well as allowing operators to control camera heads in order to monitor the scene, the receiver incorporates dynamic electronic zone masking that enables the privacy of those in adjacent areas not under surveillance to be maintained. The RX3 receiver can be controlled from existing Bewator equipment using over the coax or twisted pair telemetry. The receiver supports other telemetry protocols including Ernitec (ERNA), and Pelco (D&P). Compatible with Videmech Universal Protocol (UP)	RX3 18 Function Preset Receiver enables dc variable speed pre set pan & tilt camera heads to be optimally controlled to high precision in terms of dynamic speed range and positional accuracy. As well as allowing operators to control camera heads in order to monitor the scene, the receiver incorporates dynamic electronic zone masking that enables the privacy of those in adjacent areas not under surveillance to be maintained. The RX3 receiver can be controlled from existing Bewator equipment using over the coax or twisted pair telemetry. The receiver supports other telemetry protocols including Ernitec (ERNA), and Pelco (D&P). Compatible with Videmech Universal Protocol (UP)
Telemetry	'C' or 'D' Type	'C' or 'D' Type
Preset Tour Facility	16 per tour	16 per tour
Preset Per Camera	99	99
Programmable Video Sequence	Yes	Yes
Camera Control	Zoom, focus, iris, lens	Zoom, focus, iris, lens
Latched Control	Wipe, camera, lamps	Wipe, camera, lamps
Momentary Control	Wash, auxiliary	Wash, auxiliary
Momentary Outputs	Video output with programmable gain	Video output with programmable gain
Mounting	4 x 6.5mm holes	4 x 6.5mm holes
Shock	30G Max (packaged product)	30G Max (packaged product)
Air Pressure	70 – 100KPa	70 – 100KPa
Environment	IP67	IP67
Electrical	230 Vac	230 Vac
Dimensions H x W x D (mm)	300 x 300 x 130	300 x 300 x 130
Price £ R.R.P.	944.00	944.00

Video Control

Control Equipment,
Recording and
Monitors

Telemetry Equipment

Telemetry Receivers

Model No.	RX318DZ-PCB	RX217D
		
General Description	RX3 18 Function Preset Receiver PCB Only enables dc variable speed pre set pan & tilt camera heads to be optimally controlled to high precision in terms of dynamic speed range and positional accuracy. As well as allowing operators to control camera heads in order to monitor the scene, the receiver incorporates dynamic electronic zone masking that enables the privacy of those in adjacent areas not under surveillance to be maintained. The RX3 receiver can be controlled from existing Bewator equipment using over the coax or twisted pair telemetry. The receiver supports other telemetry protocols including Ernitec (ERNA), and Pelco (D&P). Compatible with Videmech Universal Protocol (UP)	RX260 17 Function Receiver. Offers full variable speed control and faster preset positioning capability, for DC systems with pan and tilt and zoom lens. Also gives iris control and auxiliary functions. Compatible with all Bewator telemetry controllers. Compatible with all current Bewator DC pan and tilt heads. Shortest route to pre-set position. For ease of control, pan speed slows down for zoom. Supports up to 99 pre-sets.
Telemetry	'C' or 'D' Type	'C' or 'D' Type
Preset Tour Facility	16 per tour	16 per tour
Preset Per Camera	99	99
Programmable Video Sequence	Yes	Yes
Camera Control	Zoom, focus, iris, lens	Zoom, focus, iris, lens
Latched Control	Wipe, camera, lamps	N/A
Momentary Control	Wash, auxiliary	N/A
Momentary Outputs	Video output with programmable gain	N/A
Mounting	5 x 3.4mm holes	4 x 6mm holes
Shock	30G Max (packaged product)	30G Max (packaged product)
Air Pressure	70 – 100KPa	70 – 100KPa
Environment	Internal use only	IP66
Electrical	12Vdc	230Vac
Dimensions H x W x D (mm)	TBC	280 x 210 x 135
Price £ R.R.P.	610.00	670.00

Telemetry Equipment

Telemetry Receivers

Model No.	RX217D-24	RX217D-PCBCD
		
General Description	RX260 17 Function Receiver. Offers full variable speed control and faster preset positioning capability, for DC systems with pan and tilt and zoom lens. Also gives iris control and auxiliary functions. Compatible with all Bewator telemetry controllers. Compatible with all current Bewator DC pan and tilt heads. Shortest route to pre-set position. For ease of control, pan speed slows down for zoom. Supports up to 99 pre-sets	RX260 17 Function Receiver PCB Only. Offers full variable speed control and faster preset positioning capability, for DC systems with pan and tilt and zoom lens. Also gives iris control and auxiliary functions. Compatible with all Bewator telemetry controllers. Compatible with all current Bewator DC pan and tilt heads. Shortest route to pre-set position. For ease of control, pan speed slows down for zoom. Supports up to 99 pre-sets.
Telemetry	'C' or 'D' Type	'C' or 'D' Type
Preset Tour Facility	16 per tour	16 per tour
Preset Per Camera	99	99
Programmable Video Sequence	Yes	Yes
Camera Control	Zoom, focus, iris, lens	Zoom, focus, iris, lens
Mounting	4 x 6.5mm holes	6 x 4mm holes
Shock	30G Max (packaged product)	30G Max (packaged product)
Air Pressure	70 – 100KPa	70 – 100KPa
Environment	IP66	Internal use only
Electrical	230Vac	12Vdc
Dimensions H x W x D (mm)	280 x 210 x 135	195 x 120 x 30
Price £ R.R.P.	670.00	530.00

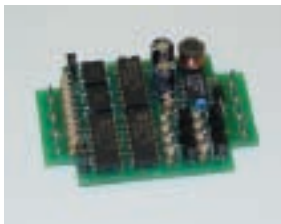
Video Control

Control Equipment,
Recording and
Monitors

Telemetry Equipment

Telemetry Equipment Accessories

Model No.	RX3-TKIT	RX3-AKIT	RX3-IRKIT
			
General Description	Tamper Switch for RX3218DZ	Alarm Input PCB, 5v pairs of configurable N/C or NO voltage free contacts	Solid State Relay Kit, 230Vac, 15A switching, suitable for IR Lamps
Price £ R.R.P.	53.00	105.00	85.00

Model No.	RX3-150KIT	RX2-PCBC	RX2-PCBCD
			
General Description	Conversion Kit to modify the chassis of a Videmech 150MK3/Petards V1500P Receiver to accept a RX318DZ-PCB	'C'-Type Telemetry Input Module for RX2xx Receiver	'D'-Type Telemetry Input Module for RX2xx Receiver
Price £ R.R.P.	820.00	38.00	38.00

Model No.	RX2-PCB234	RX2-E
		
General Description	Adaptor PCB for 3 wire lenses with RX2xx Receivers	Euro Socket Adaptor for RX2xx Receivers
Price £ R.R.P.	63.00	16.00

Any CCTV system is only as good as the poorest component. For instance, the expense of fitting low-level lighting and installing superior cameras will be totally wasted if the images are viewed on poor quality monitors. The Siemens TFT LCD monitor range is ideally suited for professional surveillance applications for use wherever good picture quality and reliability are of prime importance



Video Control

- Picture-in-picture (PIP) function to display two inputs simultaneously
- High brightness and resolution for excellent image reproduction
- Metal housing and glass front for commercial applications in the security sector
- Modern housing design and convenient operation via OSD menu

Control Equipment,
Recording and
Monitors

LCD Monitors

LCD Monitors

Model No.	CMTC1515	CMTC1715
		
General Description	Commercial 15" TFT LCD Colour Monitor. This XGA high resolution TFT monitor is specifically designed for CCTV security applications. It has two dedicated BNC video inputs with looping outputs, an S-VHS input and a DVI input allowing connection to PC-based digital recorders	Commercial 17" TFT LCD Colour Monitor. This XGA high resolution TFT monitor is specifically designed for CCTV security applications. It has two dedicated BNC video inputs with looping outputs, an S-VHS input and a DVI input allowing connection to PC-based digital recorders
Resolution	SXGA, 1024 x 768 pixels	SXGA, 1280 x 1024 pixels
Contrast Ratio	400:1	400:1
Brightness	250 cd/m ²	400 cd/m ²
Colours	16.7 M	16.7 M
Viewing Left/Right, Up/Down	80/80°, 80/80°	80/80°, 80/80°
Scan Frequency	H: 31.5K – 60 kHz, V: 56 – 75Hz	H: 31.5K – 60 kHz, V: 56 – 75Hz
Scan Frequency	0.5 – 2Vpp / 75 Ohm; Y: 1Vpp, C: 0.3Vpp	0.5 – 2Vpp / 75 Ohm; Y: 1Vpp, C: 0.3Vpp
Audio	2 built in speakers, 2 x audio in, 2 x audio out, 1 x phone	2 built in speakers, 2 x audio in, 2 x audio out, 1 x phone
Connections	In: 2 x BNC video, 1 x S-VHS, 1 x DVI-I Out: 2 x BNC video	In: 2 x BNC video, 1 x S-VHS, 1 x DVI-I Out: 2 x BNC video
OSD Control	Colour, Hue, Brightness, contrast, volume, language, scan, PIP	Colour, Hue, Brightness, contrast, volume, language, scan, PIP
Housing	front panel: glass	front panel: glass
Installation	VESA standard (4 x M4; 100 x 100mm)	VESA standard (4 x M4; 100 x 100mm)
Dimensions, monitor only H x W x D (mm)	272 x 349 x 625	318 x 374 x 625
Environmental	5 to 60°C	5 to 60°C
Electrical	100 – 240Vac	100 – 240Vac
Price £ R.R.P.	675.25	950.25

LCD Monitors

Model No.	CMTC1720	CMTC1915
		
General Description	Commercial 17" TFT LCD Eco Colour Monitor. This XGA high resolution TFT monitor is specifically designed for CCTV security applications. It has two dedicated BNC video inputs with looping outputs, an S-VHS input and a DVI input allowing connection to PC-based digital recorders	Commercial 19" TFT LCD Colour Monitor. This XGA high resolution TFT monitor is specifically designed for CCTV security applications. It has two dedicated BNC video inputs with looping outputs, an S-VHS input and a DVI input allowing connection to PC-based digital recorders
Resolution	SXGA, 1280 x 1024 pixels	SXGA, 1280 x 1024 pixels
Contrast Ratio	500:1	500:1
Brightness	250 cd/m ²	250 cd/m ²
Colours	16.7 M	16.7 M
Viewing Left/Right, Up/Down	70/70°, 65/65°	70/70°, 65/65°
Scan Frequency	H: 31,5K – 60 kHz, V: 56 – 75Hz	H: 31,5K – 60 kHz, V: 56 – 75Hz
Scan Frequency	0.5 – 2Vpp / 75 Ohm; Y: 1Vpp, C: 0.3Vpp	0.5 – 2Vpp / 75 Ohm; Y: 1Vpp, C: 0.3Vpp
Audio	2 built in speakers, 2 x audio in	2 built in speakers, 2 x audio in, 2 x audio out, 1 x phone
Connections	In: 1 x BNC video, 1 x S-VHS, 1 x DVI-I	In: 2 x BNC video, 1 x S-VHS, 1 x DVI-I Out: 2 x BNC video
OSD Control	Colour, Hue, Brightness, contrast, volume, language, scan, PIP	Colour, Hue, Brightness, contrast, volume, language, scan, PIP
Housing	Plastic	Metal, front panel: glass
Installation	VESA standard (4 x M4; 100 x 100mm)	VESA standard (4 x M4; 100 x 100mm)
Dimensions, monitor only H x W x D (mm)	325 x 372 x 54	350 x 420 x 65
Environmental	0 to 40°C	5 to 60°C
Electrical	100 – 240Vac	100 – 240Vac
Price £ R.R.P.	776.25	1,250.25

LCD Monitors

LCD Monitors

Model No. **CMTC1920**



General Description	Commercial 19" TFT LCD Eco Colour Monitor. This XGA high resolution TFT monitor is specifically designed for CCTV security applications. It has two dedicated BNC video inputs with looping outputs, an S-VHS input and a DVI input allowing connection to PC-based digital recorders
Resolution	XGA, 1280 x 1024 pixels
Contrast Ratio	550:1
Brightness	270 cd/m ²
Colours	16.2 M
Viewing Left/Right, Up/Down	70/70°, 65/65°
Scan Frequency	H: 31.5K – 80 kHz, V: 50 – 75Hz
Scan Frequency	0.5 – 2Vpp / 75 Ohm; Y: 1Vpp, C: 0.3Vpp
Audio	2 built in speakers, 2 x audio in
Connections	In: 1 x BNC video, 1 x S-VHS, 1 x DVI-I
OSD Control	Colour, Hue, Brightness, contrast, volume, language, scan, PIP
Housing	Plastic
Installation	VESA standard (4 x M4; 100 x 100mm)
Dimensions, monitor only H x W x D (mm)	431.5 x 420 x 54.5
Environmental	0 to 40°C
Electrical	100 – 240Vac
Price £ R.R.P.	918.00

Model No. **CMTB1515-R** **CMTB1715-R** **CMTB1915-R**



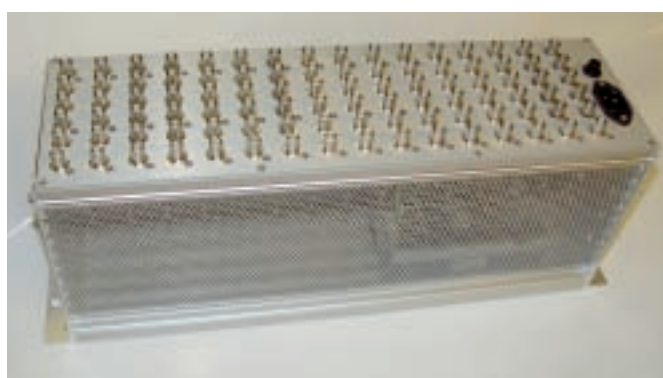
General Description	Rack Mount Bracket for 15" TFT Colour Monitor	Rack Mount Bracket for 17" TFT Colour Monitor	Rack Mount Bracket for 19" TFT Colour Monitor
Price £ R.R.P.	27.00	27.00	27.00

Electronic Accessories

Bewator offers a full range of those specialist items that make the difference between a valuable video monitoring system with clear and usable images, and a collection of poor and fuzzy images.

From Video distribution amplifiers that make installation easier, peak white inverters that enable a vehicle's occupants and number plate to be seen at night even when the vehicle's own head lights are aimed at the camera, through to those essential video transformers, the Bewator range is designed to enhance the performance of any security system

- Video Distribution Amplifiers
- Peak White Inverters
- Power Supply Units



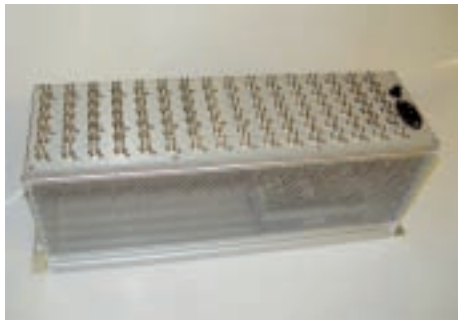
Electronic Accessories

Video Distribution Amplifiers
Accessories
Power Supply Units

265
266
267
268

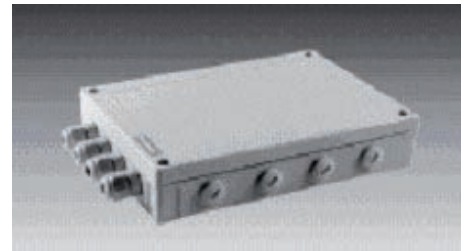
Electronic Accessories

Video Distribution Amplifiers

Model No.	VID101	VID101R
		
General Description	Video Distribution Amplifier. Receives video signal and provides multiple outputs, at same amplitude as input. This version gives 5 outputs, from one input 1, operating from a 240Vac supply	Video Distribution Amplifier. Receives video signal and provides multiple outputs, at same amplitude as input. VID101R operates from 240Vac supply and has 16 x VID101, assembled to fit into a 19" rack
Video Inputs	1V Peak to Peak nominal (2V max) 75 Ohm Termination, Standard BNC	1V Peak to Peak nominal (2V max) 75 Ohm Termination, Standard BNC
Video Outputs	1V Peak to Peak nominal (2V Max.), 75 Ohm Termination, Standard BNC	1V Peak to Peak nominal (2V Max.), 75 Ohm Termination, Standard BNC
Bandwidth	10Mhz	10Mhz
Signal To Noise Ratio	>42dB	>42dB
Environmental	Internal use only	Internal use only
Electrical	230Vac	230Vac
Dimensions H x W x D (mm)	174 (H) x 90 (D)	483 x 126 x 134 (including BNCs)
Price £ R.R.P.	105.00	1,125.00

Accessories

Model No.	VT/75-75	CADo485-AA
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General Description	Video Transformer. Achieves ground loop isolation on a video cable, i.e. removes earth loops. VT75-75 - 75 ohm coax in / 75 ohm coax out. Compatible with 'C' type telemetry.	RS485 Distribution Amplifier The RS485 distribution amplifier CADo485-AA distributes the signals from one RS485 or RS422 interface to up to 8 outgoing interfaces. The configuration can be set by means of DIP switches. Up to 10 SIVIS Minidome or CCDA cameras can be connected to each output.
Bandwidth	20Hz - 9MHz +/-1.5dB. Loss @ 11.5MHz 4dB (C-Type Telemetry)	Up to 19200 baud
Connection	BNC for 75 Ohm Cables	3 x 16 spring terminals
Impedance	75 Ohms Unbalanced	N/A
Input / Output	Reversible	0V, 12Vdc, RS485/RS232
Isolation	Tested to 500V 50/60MHz	N/A
RLR	>20dB	N/A
Video Loss	1dB @ 8Mhz	N/A
Electrical	N/A	12Vdc
Dimensions H x W x D (mm)	90 x 41 x 32	180 x 130 x 40 (without cable glands)
Price £ R.R.P.	112.00	279.50

Electronic Accessories

Power Supply Units

Model No.	PSU12D	PSU24-2	PSU24-2U
			
General Description	Power Supply Unit, 230Vac / 12Vdc. Additional or replacement power supply unit	Power Supply Unit, 240Vac / 24Vac. Additional or replacement power supply unit	Power Supply Unit, 110Vac / 24Vac. Additional or replacement power supply unit
Environmental	Internal use only	Internal use only	Internal use only
Electrical	500mA 230Vac input 12Vdc output	2Amp 230vAc input 24Vac output	2Amp 110vAc input 24Vac output
Price £ R.R.P.	29.00	75.00	75.00



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Bewator (a subsidiary of Siemens Building Technologies Group since November 2005) is Europe's leading supplier of innovative security products and systems, encompassing Access Control, CCTV, Intruder and Integrated Security Management Systems.

Siemens Building Technologies (SBT) is a division of Siemens AG and combines building security and building automation solutions within a single company, SBT has fire and security operations world-wide and Siemens is one of the world's largest electrical engineering and electronics companies, with a global workforce of more than 461,000 employees.

Bewator Limited serves the UK and Republic of Ireland for pre-qualification, supply, training and after sales support for all security products bearing the Bewator and Siemens brands, Bewator Limited is an active member of the British Security Industry Association and is an ISO9001 approved company. All Bewator and Siemens products meet international standards including FCC and CE.



In 2006 Bewator moved into its new high tech office in Cwmbran, South Wales. This new facility offers a modern efficient working environment and provides 'state of the art' training facilities, demonstration equipment and meeting rooms.

To ensure your company's staff are fully trained to their true potential please contact us to arrange a training course or why not visit us for a full demonstration of our varied portfolio of Access, Video and Intrusion products.



Siemens Security Products brings you a range of Intrusion Products that are ideally suited to today's security market.

The range covers the new Sintony 60 Intrusion Control Panel, Indoor and External, including the award winning Eyetec Detector, Seismic and Glass Break Detectors and even Magnetic Contacts



Sintony 60 Intrusion Control System	273
Control Panel	273
Starter Kits	274
Accessories	275
Passive Infrared Detection	277
Internal Motion	277
Dual Technology	279
Accessories	281
External Motion Detection	283
External Motion Detectors	283
Seismic Detection	285
Seismic Detectors	285
Accessories	286
Glass Break and Vibration Detection	287
Acoustic Glass Break & Vibration Detectors	287
Foot Rail Alarm	288
Foot Rail Panic Alarm	288
Magnetic Contacts	289
Magnetic Contacts	289



Motion Detectors



For every application – the complete range of
Siemens Motion Detectors.

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Building Technologies

SIEMENS

Sintony 60 Intrusion Control System

Control Panel

Model No. IC60W-10



General Description

Sintony 60 Intrusion Wireless Multifunctional Hybrid System has been developed especially for the small business and home security market. Sintony 60 combines wireless technology and hardwired security, safety, control and attractive design and offers a user-friendly solution.

The Sintony 60 is equipped with an extra large 2-line display, each consisting of 16 characters and keypad integrated. The display and the keys are fitted with backlights and can be individually adjusted, as well as the volume of the signal tones. The 5 LED's display the most important system states such as ready, trouble, stay, bypass and armed. Clear separate emergency call buttons. A room temperature indication is integrated into the panel

Functions

Wireless or hardwired
2 x independent alarm wards
8 + tamper physical inputs
255 Event Memory with time stamp
100 individual user PINs
8 x weekly calendars
Local PC connection via IA6-1 Cable
Remote maintenance and connection
Plain text programming via control panel or PC

Inputs (programmable)

8 hardwired
16 wireless

Outputs (programmable)

1 x Relay, 24Vdc / 2amp
2 x OC, 12Vdc / 1amp
1 x Internal Piezo

Frequency

868Mhz / 915Mhz

Housing

ABS

Battery Type

Ni-Mh 12Vdc, 1800mAh

Conformity

PD666, DD243 – Grade 2

Temperature

0 – 50°C

Environmental

Internal use only

Electrical

100 – 240Vac, 50 / 60Hz, max 120mA consumption

Dimensions, H x W x D (mm)

170 x 330 x 40

Price £ R.R.P.

200.00

Sintony 60 Intrusion Control System

Starter Kits

Model No.	IPIC60-123
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General Description	Sintony 60 Compact Starter Kit comprising of 1 x IC60W-10 Compact Control Panel, 2 x IR60W-10 PIR Detectors and 1 x IRCW6-10 Remote Control (wired/wireless)
Price £ R.R.P.	338.50

Model No.	IPIC60-101
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General Description	Sintony 60 Modular Starter Kit comprising of 1 x IC60M-8 Modular Control Panel and 3 x IR80 PIR Detectors. Sintony 60 Modular is a traditional modular design in a small box containing the power supply and battery (optional wireless module)
Price £ R.R.P.	184.00

Sintony 60 Intrusion Control System

Accessories

Model No.	IR60W6-10	IKP6-03	IRCW6-10
			
General Description	Wireless PIR Detector for Sintony 60. 12m wide angle. Long live Battery- up to 4 years. Pet immunity up to 25kg. Spherical Fresnell lens. Asic based electronic. Small design. Mounting bracket	LCD Keypad for Sintony 60. 2 line LCD display, each consisting up to 16 characters. Connection through bus. Total max. 8 keypads	Wireless Remote Control for Sintony 60. 5 different functions (incl. Panic button). IP 65 Waterproof. Free programmable (garage door, lights etc.). Up to 16 units/ control panel. Long live battery (4Y+)
Price £ R.R.P.	50.75	70.50	33.50

Model No.	IMKW6-10	IAS6-1	IAQ6-1
			
General Description	Wireless Magnetic Contact for Sintony 60. Long live Battery - up to 4 years. External contact connectable Lithium Battery. Extreme Small dimension. Used for external contacts/systems water, heating, gas etc	Installer Software for Sintony 60. The CD contains documentation, programming and administration software. A PC and the IAQ6-1 Interface Cable, enables access to the panel remotely or locally.	PC Interface Cable for Sintony 60. The connection cable enables direct connection between a PC and the Sintony 60 control panel for direct programming and print out of the memory log.
Price £ R.R.P.	37.00	33.00	88.50

Eyetec™

Optical detection system sets
new standards in motion detection!

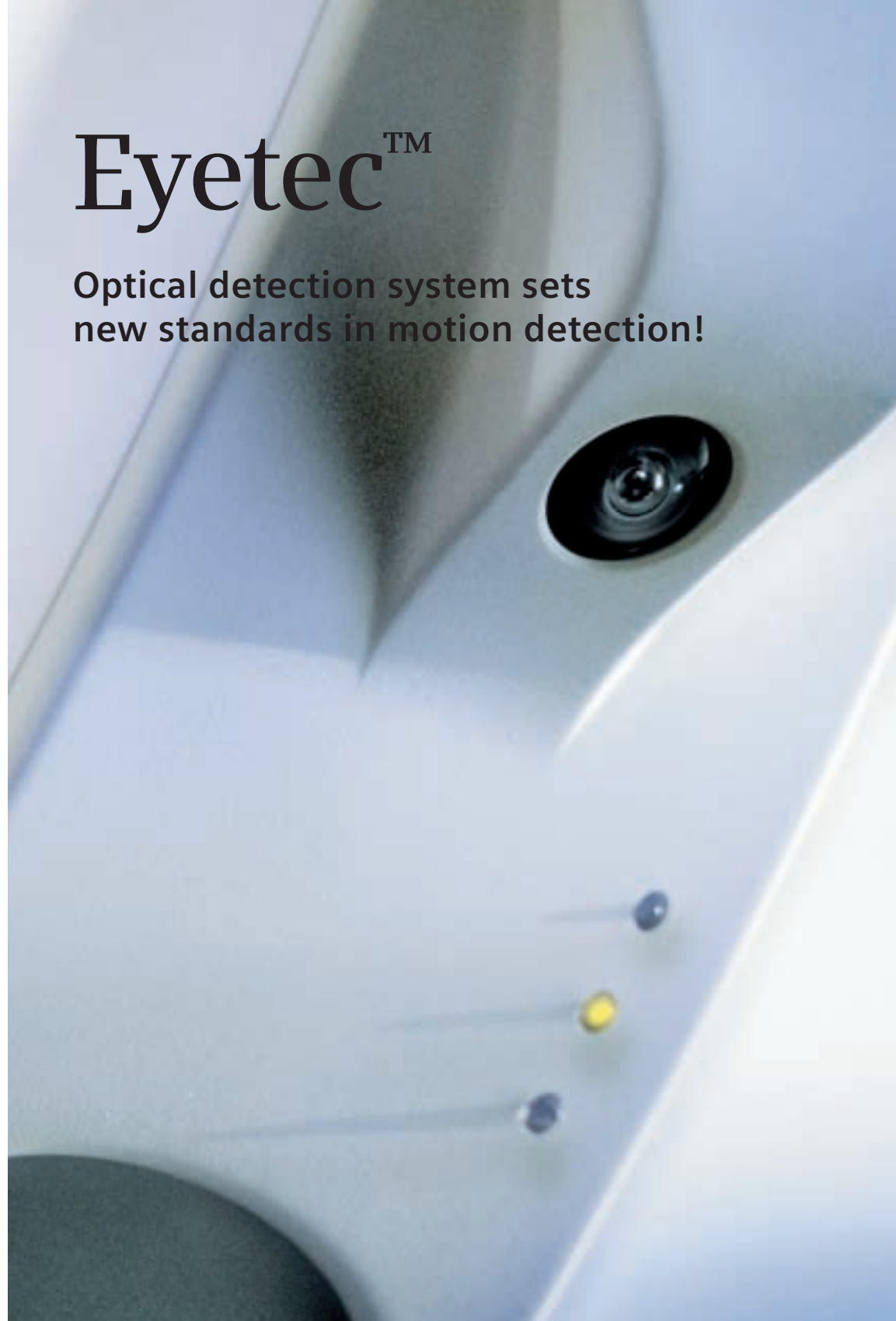


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Unrivalled catch performance and false alarm immunity are achieved due to the unique combination of an image sensor and a passive infrared sensor. Furthermore, Eyetec offers unique benefits such as antiblocking, alarm picture storage and easy selection of a surveilled area.

Eyetec, the world's leading optical PIR motion detector!

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SIEMENS

Passive Infrared Detectors

Internal Motion Detectors

Model No.	IR100B	IR120 C	IR200 C-II
			
General Description	Swisstec PIR Detector 12m wide angle. A unique combination of superior immunity and high detection reliability based on innovative technologies. Easy installation with the time-saving snap-in concept the AMASIC full digital signal processing make this detector ideal for a wide range of commercial and domestic applications where pets may be present. Pet immunity up to 12kg	Swisstec PIR Detector 12m wide angle, black mirror optics. A unique combination of superior immunity and high detection reliability based on innovative technologies. Easy installation with the time-saving snap-in concept. The 18x3 triplex zone black mirror and the AMASIC full digital signal processing make this detector ideal for a wide range of commercial and domestic applications where pets may be present. Pet immunity up to 40kg	Professional Visatec II™ PIR Detector, 15m wide angle. An attractive design, timesaving installation, reliable detection and outstanding immunity make the IR200 the ideal motion detector for industrial and commercial applications, as well as for more demanding and sophisticated applications in the private sector
Alarm Output Contact / Load	30Vdc / 100mA opens on alarm	30Vdc / 100mA opens on alarm	30Vdc / 100mA opens on alarm
Tamper Contact / Load	30Vdc / 50mA	30Vdc / 100mA	30Vdc / 100mA
Optics and Volume Range	Silver Mirror 12m / 18 x 3 triplex zones	Black Mirror 12m / 18 x 3 triplex zones	Black Mirror 15m / 18 triplex zones
Walk Test Indicator	LED	LED	LED
Walk Test Input	Low $\leq 1.5V$ / High $\geq 3.5V$	Low $\leq 1.5V$ / High $\geq 3.5V$	Low $\leq 1.5V$ / High $\geq 3.5V$
Walking Speed	0.2 – 3m/s	0.2 – 3m/s	0.2 – 3m/s (wide angle)
EN50131 Security Grade	2	2	2
Temperature	-20 to 60°C	-20 to 55°C	-20 to 55°C
Environment	IP41	IP41	IP41
Electrical	9 – 16Vdc / 9mA (9mA on alarm)	8 – 16Vdc / 6mA (6mA on alarm)	8 – 16Vdc / 5mA (6mA on alarm)
Dimensions H x W x D (mm)	115 x 50 x 41	115 x 50 x 41	135.5 x 55 x 45
Price £ R.R.P.	17.50	22.00	34.50

Passive Infrared Detectors

Internal Motion Detectors

Model No.	IR270 C	IR270 T	IR310 C
			
General Description	Visatec II™ Pro PIR Detector, 18m wide angle. A unique combination of immunity to false alarms and maximum detection reliability make the IR270 ideal for a wide range of applications, including commercial and industrial premises, large private houses and public buildings	Visatec II™ Pro PIR Detector, 18m wide angle, Anti-Mask in Real Time and Alarm Memory. A unique combination of immunity to false alarms and maximum detection reliability make the IR270 ideal for a wide range of applications, including commercial and industrial premises, large private houses and public buildings	Visatec™ PIR Detector, 18m wide angle An attractive design, timesaving installation, reliable detection and close range detection makes the IR310C ideal for industrial, public and commercial applications
Alarm Output Contact / Load	30Vdc / 100mA opens on alarm	30Vdc / 100mA opens on alarm	30Vdc / 75mA opens on alarm
Tamper Contact / Load	30Vdc / 100mA	30Vdc / 100mA	30Vdc / 50mA
Optics and Volume Range	Black Mirror, 18m, triplex zones	Black Mirror, 18m, triplex zones	Silver Mirror, 18m
Walk Test Indicator	LED	LED	LED
Walk Test Input	Low $\leq 1.5V$ / High $\geq 3.5V$	Low $\leq 1.5V$ / High $\geq 3.5V$	Low $\leq 1.5V$ / High $\geq 3.5V$
Walking Speed	0.1 – 4m/s	0.1 – 4m/s	0.2 – 3m/s
EN50131 Security Grade	2	3	2
Temperature	-20 to 55°C	-20 to 55°C	-20 to 55°C
Environment	IP41	IP41	IP41
Electrical	8 – 16Vdc / 2.8mA (12mA on alarm)	8 – 16Vdc / 2.8mA (12mA on alarm)	10 – 16Vdc / 12mA (29mA on alarm)
Dimensions H x W x D (mm)	135.5 x 55 x 50	135.5 x 55 x 50	192 x 96 x 97
Price £ R.R.P.	35.25	44.25	99.00

Passive Infrared Detectors

Internal Motion Detectors and Dual Technology Detectors

Model No.	IR312 C	IR261	IRO840T
			
General Description	Visatec™ PIR Detector, 50m long range curtain. An attractive design, timesaving installation, reliable detection and close range detection makes the IR310C ideal for industrial, public and commercial applications	Passive Infrared Detector for Ceiling Mounting with detection coverage of 360°, is ideal for monitoring large sized rooms such as open plan offices, shop areas with flexible fittings, corridors crossings and warehouses	Eyetec Dual motion Detector with Anti-Mask, 15m wide angle. Eyetec is a 15m dual motion detector featuring a unique combination of PIR technology and the optical detection system (ODS). Anti-Masking and the novel antiblocking capability enables Eyetec to meet stringent EN50131-Grade 4 requirements. Programmable via IRO Com Tool
Alarm Output Contact / Load	30Vdc / 75mA opens on alarm	30Vdc / 75mA opens on alarm	30Vdc / 100mA opens on alarm
Tamper Contact / Load	30Vdc / 50mA	30Vdc / 100mA	30Vdc / 50mA
Optics and Volume Range	Silver Mirror, 50m long range curtain	Fresnel lens, 360°, 18m diameter	Black Mirror, 15m, triplex zones
Walk Test Indicator	LED	LED	LED
Walk Test Input	Low $\leq 1.5V$ / High $\geq 3.5V$	N/A	Low $\leq 1.5V$ / High $\geq 3.5V$
Walking Speed	0.2 – 3m/s	0.2 – 3m/s	0.2 – 3m/s (wide angle)
EN50131 Security Grade	2	2	4
Temperature	-20 to 55°C	-20 to 60°C	-20 to 55°C
Environment	IP41	IP41	IP41
Electrical	10 – 16Vdc / 12mA (29mA on alarm)	10.5 – 18Vdc / 35mA	8 – 16Vdc / 18mA (24mA on alarm)
Dimensions H x W x D (mm)	192 x 96 x 97	47 x 120 (H x W)	70 x 17 x 80
Price £ R.R.P.	99.00	48.50	288.00

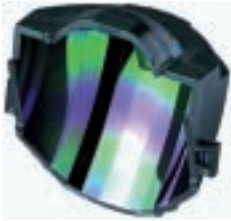
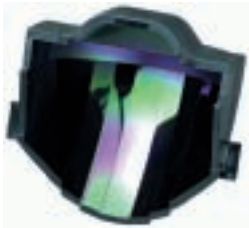
Passive Infrared Detectors

Dual Technology Detectors

Model No.	IR120C	IR270CUK/CTUK	UP370T
			
General Description	Matchtec® PIR/MW motion Detector. The detector's design is easily incorporated into any surrounding. Because two detection systems are used (microwave and passive infrared as well as the Matchtec® signal processing) this detector suits demanding applications. It can be simply adapted to any room size and it offers pet immunity up to 20kg	Matchtec® PIR/ MW motion Detector, 18m wide angle. Reliable recognition of intruders is ensured thanks to sophisticated digital Matchtec® signal processing and interconnection between the microwave and passive-infrared sections. . Available with or without Anti-Mask	Matchtec PIR/US Detector with Anti-Mask, 10m wide angle. Appealing design, reliable motion detection, professional Anti-Mask surveillance and excellent immunity to disturbances make the UP370T ideal for demanding commercial, industrial and high-security applications
Alarm Output Contact / Load	30Vdc / 100mA opens on alarm	30Vdc / 100mA opens on alarm	30Vdc / 75mA opens on alarm
Tamper Contact / Load	30Vdc / 50mA	30Vdc / 50mA	30Vdc / 50mA
Optics and Volume Range	Black mirror, 12m, triplex zones	IRM270CUK – Black Mirror, 18m, triplex zones IRM270CTUK – Black Mirror, 18m, triplex zones, Anti-Mask	Black Mirror, 10m, triplex zones
Walk Test Indicator	LED	LED	LED
Walk Test Input	N/A	Low $\leq 1.5V$ / High $\geq 3.5V$	Low $\leq 1.5V$ / High $\geq 3.5V$
Walking Speed	0.2 – 3m/s	0.2 – 4m/s	0.1 – 4m/s
EN50131 Security Grade	2	IRM270CUK – 2 IRM20CTUK - 3	3
Temperature	-20 to 55°C	-20 to 55°C	-20 to 55°C
Environment	IP41	IP41	IP41
Electrical	8 – 16Vdc / 2.8mA (12mA on alarm)	8 – 16Vdc / 2.8mA (12mA on alarm)	10 – 16Vdc / 12mA (29mA on alarm)
Dimensions H x W x D (mm)	115 x 50 x 41	135.5 x 55 x 56.6	192 x 96 x 97
Price £ R.R.P.	39.50	IRM270CUK 48.75 IRM270CTUK 78.50	125.50

Passive Infrared Detectors

Accessories

Model No.	IRS112	IRS122	IRS162
			
General Description	Curtain Mirror Set for IR110 and IR100, 20m curtain, pack of 4	Curtain Mirror Set for IR120, 20m curtain, pack of 4	Curtain Mirror Set for IR200, 18m / 25m curtain, pack of 4
Price £ R.R.P.	13.75	11.75	12.00
Model No.	IRS164	IRS272	IRUM1
			
General Description	Pet Alley Mirror Set for IR200, 10m wide angle, pack of 4	Curtain Mirror Set for IR270, 28m curtain, pack of 4	General Purpose Mounting Bracket for IR200
Price £ R.R.P.	13.75	19.25	11.75
Model No.	IRUM2	IRUM3	IRUM20
			
General Description	Wall Mounting Bracket for IR200, IR310 and UP370	Ceiling Mounting Bracket for IR200, IR310 and UP370	Wall Mounting Bracket for IR200, IR120, IR270 and IRM270
Price £ R.R.P.	5.25	7.25	3.75

Passive Infrared Detectors

Internal Motion Detectors

Model No.	IRUM30	IRMC104	IRMC1
			
General Description	Ceiling Mounting Bracket for IR300, IR120, IR270 and IRM270	Pet Clip for IR100 and IR120	Short Range Clip for IR200 and UP370, 6 x 6 wide angle
Price £ R.R.P.	7.25	3.25	5.50

Model No.	IRO Com Tool
	
General Description	IRM Com Tool for use with Eyetec IRO840T
Price £ R.R.P.	214.50



Passive Infrared Detectors

External Motion Detectors

Model No.	IS390/390H/392/392H	IS402
		
General Description	Outdoor PIR Detector. Universal application for outdoor monitoring of unauthorized entry. Uniform high sensitivity over the entire detection range including close-in detection by means of focused mirror optics. For volumetric detection. With or without heating	Outdoor PIR Detector, curtain 100m The passive infrared barrier type IS402 is used in intrusion detection systems to build a combined perimeter monitoring facility and for the use as motion detector to activate video surveillance systems.
Alarm Output Contact / Load	28Vdc / 500mA	28Vdc / 500mA
Tamper Contact / Load	30Vdc / 100mA	48Vdc / 250mA
Optics and Volume Range	IS390 – Mirror Optics, 21m volumetric IS390H – Mirror Optics, 27m volumetric IS392 – Mirror Optics, 50m curtain IS392H – Mirror Optics, 60m curtain	Mirror Optics, 100m curtain
With Heating	IS390 – No IS390H – Yes IS392 – No IS392H – Yes	No
Walk Test Input	Low $\leq 1.5V$ / High $\geq 3.5V$	Low $\leq 1.5V$ / High $\geq 3.5V$
ATD Adapt. Threshold Decoding	Activated / deactivated	Activated / deactivated
Temperature	-40 to 60°C	-20 to 60°C
Environment	IP64	IP53
Electrical	10.5 – 28Vdc / 18mA	10.5 – 28Vdc / 22mA
Dimensions H x W x D (mm)	128 x 100 x 247	90 x 242 (W x D)
Price £ R.R.P.	IS390 322.00 IS390H 405.75 IS392 322.00 IS392H 405.75	463.50

Passive Infrared Detectors

External Motion Detectors

Model No.	IS404/404H	IS412
		
General Description	Outdoor PIR detector, curtain 120m The IS404 is suitable for outdoor environment. The integral mounting bracket allows alignment of the detector in any position. Switches enable easy and quick set-up. Ideal for activating a combined video surveillance system. With or without heating	Outdoor PIR detector, curtain shape 150m The passive infrared barrier type IS412 is used in intrusion detection systems to build a combined perimeter monitoring facility and for the use as motion detector to activate video surveillance system
Alarm Output Contact / Load	28Vdc / 250mA	28Vdc / 500mA
Tamper Contact / Load	30Vdc / 100mA	28Vdc / 250mA
Optics and Volume Range	IS404 – Mirror Optics, 120m wide angle IS404H – Mirror Optics, 150m, wide angle	Mirror Optics, 150m curtain
With Heating	IS404 – No IS404H – Yes	No
Walk Test Input	Low $\leq 1.5V$ / High $\geq 3.5V$	Low $\leq 1.5V$ / High $\geq 3.5V$
ATD Adapt. Threshold Decoding	Activated / deactivated	Activated / deactivated
Temperature	-20 to 60°C	-40 to 60°C
Environment	IP64	IP53
Electrical	10.5 – 28Vdc / 20mA	10.5 – 28Vdc / 22mA
Dimensions H x W x D (mm)	128 x 100 x 247	90 x 330 (W x D)
Price £ R.R.P.	IS404 451.75 IS404H 405.75	685.50

Seismic Detection

Seismic Detectors

Model No.	GM730	GM760	GM770
			
General Description	Seismic Detector with low profile design for applications on steel and concrete. Universal application for round-the-clock monitoring of safes, night deposits and automatic cash dispensers. Special low-profile design makes the GM730 ideal for use where best detection performance is required but space is limited	Seismic Detector for all applications. Universal application for round-the-clock monitoring of safes, cash dispensers, night deposits, strong room and modular vaults made of steel, concrete and armoured or synthetic composites. Specially designed for best detection performance and maximum immunity to environmental influences.	Seismic Detector for intelligent multi-purpose use with unique electrical drilling protection. Universal application for round-the-clock monitoring of safes, cash dispensers, night deposits, strong rooms and modular vaults made of steel, concrete and armoured or synthetic composites. Specially designed for best detection performance and maximum immunity to environmental influences.
Coverage Area for All Tools	4m / 50m ²	5m / 80m ²	5m / 80m ²
Anti-Drilling Shield	Optional – see GMXD7	Optional – see GMXD7	Built in
Mounting and Function Test	Low ≤1.5V / High ≥3.5V	Low ≤1.5V / High ≥3.5V	Low ≤1.5V / High ≥3.5V
Function Test Duration	≤3s	≤3s	≤3s
DIP Switch Settings	3 levels	3 levels	3 levels
Programmable	Via Sens Tool software	Via Sens Tool software	Via Sens Tool software
Alarm Output Relay	30Vdc / 100mA	30Vdc / 100mA	30Vdc / 100mA
Tamper Output Cover Contact	30Vdc / 100mA	30Vdc / 100mA	30Vdc / 100mA
Remote Sensitivity	Low ≤1.5V / High ≥3.5V	Low ≤1.5V / High ≥3.5V	Low ≤1.5V / High ≥3.5V
Temperature	-40 to 70°C	-40 to 70°C	-40 to 70°C
Environment	IP43	IP43	IP43
Electrical	8 - 16Vdc / 3mA (5mA on alarm)	8 - 16Vdc / 3mA (5mA on alarm)	8 - 16Vdc / 3mA (5mA on alarm)
Dimensions H x W x D (mm)	89 x 89 x 22	89 x 89 x 22	89 x 89 x 22
Price £ R.R.P.	136.50	208.25	249.75

Seismic Detection

Accessories

Model No.	GMSW7	GMXPo	GMXP3
			
General Description	Sens Tool (Tester, Interface, Software) for GM730, GM760 and GM770	Mounting Plate for GM730, GM760 and GM770	Swivel Plate for GM730, GM760 and GM770
Price £ R.R.P.	52.25	12.50	48.75
Model No.	Spacer/2mm	Spacer/4mm	GMXS1
			
General Description	Spacer Plate for GM730, GM760, GM770 – 2mm	Spacer Plate for GM730, GM760, GM770 – 4mm	Test Transmitter for GM730, GM760, GM770
Price £ R.R.P.	6.25	6.75	24.25
Model No.	GMXBo	GMAS6	GMXD7
			
General Description	Floor Box for GM730, GM760, GM770	Fixing Device for key hole protection GM730, GM760, GM770	Anti-Drilling Protection Foil for GM730 and GM760 – pack of 10
Price £ R.R.P.	107.00	157.75	55.25

Glas Break and Vibration Detection

Acoustic Glass Break and Vibration Detectors

Model No.	AGB600	ES400/ES400B
		
General Description	Audio Glass Break Detector is ideally suited for use in a wide range of applications, including commercial and residential premises, public buildings and similar locations requiring stringent security. Thanks to its small and unobtrusive housing, the detector can be mounted onto walls and ceiling. The AGB600 is equipped with two settings for an accurate adjustment to the application and environment. With the help of the acoustic glass break simulator GT2, the whole operating radius (up to 8.5m) is completely controllably	Vibration Detector for doors, walls, ceilings and floors. High sensitivity. High immunity to environmental disturbances. Adjustable sensitivity. Easy installation. Available in either White or Brown ABS plastic housing: ES400 – White ES400B - Brown
Alarm Output	Semiconductor relay 30Vdc / 100mA 2.5s alarm holding time	33Ohms electronic relay, 35Vdc / 500mA contact relay, 2s alarm holding time
Sensitivity Adjustment	Automatic	Adjustable on potentiometer
Range / Frequency Range	8.5m	1-7000Hz
Temperature	-10 – 55°C	-10 – 50°C
Environment	IP31	IP31
Electrical	8 - 16Vdc, 3.2 - 8mA	8 - 15Vdc, 7 - 11mA
Dimensions H x W x D (mm)	80 x 60 x 23	
Price £ R.R.P.	37.50	28..50

Model No.	GT2	ESC400	EST400
			
General Description	Test Unit for AGB600	Metal Housing for ES400	Test Instrument for ES400
Price £ R.R.P.	126.50	12.25	POA

Foot Rail Alarm

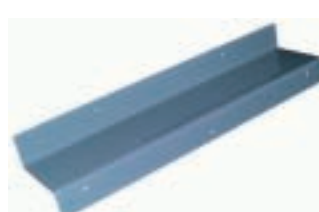
Foot Rail Panic Alarm

Model No.	FK32
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General Description	Hold-Up Foot Rail for releasing alarm or triggering surveillance cameras Flexible Application: The hold-up foot rail can be attached directly to the furniture. For wall mounting the support L-bracket (FKL3) is required. The moving part of the pedal activates a single pole double throw switch. Thus connection in a configuration normally open or normally closed is possible. Great reliability: Compared to a contact actuated by the hand or the foot, this foot rail offers a greater security of command and does not reduce the freedom of movement instead of work. Actuation is indicated by a red stud on a long side of the unit. It can be reset manually by piercing a small cap, which, after resetting, must be replaced. Thus unauthorised resetting is clearly visible. High quality: The hold-up foot rail consists of two rugged pressure cast sections. Connections to the SPDT momentary switch is made via terminal strips. Angled entry channels prevent tension to connection cables. • Discreet operation for triggering alarm or camera • Permits freedom of movement within working area • Indicating stud can only be reset by authorised personnel • Low noise action
Output Contact	NO and NC
Connection	Screw terminals
Environmental	Internal use only
Electrical	30Vdc / 1A, 50Vdc / 0.5A
Dimensions, monitor only H x W x D (mm)	32 x 600 x 40
Price £ R.R.P.	88.50

Model No.	FKL3	FKZ3	FK3-SET100K
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General Description	L Bracket for wall mounting of FK 32	Z Bracket for floor mounting of FK 32	Indicator Caps for FK 32, pack of 100
Price £ R.R.P.	47.75	53.75	36.00

Magnetic Contacts

Accessories

Model No.	MK140	MK142	MK240
			
General Description	Magnetic Contact for flush mounting, white	Magnetic Contact for flush mounting, X-magnet, white	Magnetic Reed Contact for flush mounting, self locking screw housing, 2.2m cable
Price £ R.R.P.	4.80	5.80	5.20

Model No.	MK240-1K	MK250	MK250-1K
			
General Description	Magnetic Reed Contact for flush mounting, self locking screw housing, 2.2m cable, 1K R	Magnetic Reed Contact for flush mounting, self locking screw housing, 2.2m cable	Magnetic Reed Contact for flush mounting, self locking screw housing, 2.2m cable, 1K R
Price £ R.R.P.	5.40	5.20	5.70

Model No.	MK270	MK440	MK470
			
General Description	Magnetic Reed Contact for flush mounting, self locking screw housing	Magnetic Contact for surface mounting with 3 screw terminals, white	High Security Biased Magnetic Contact for surface mounting, tamper, white
Price £ R.R.P.	11.60	4.60	11.30

Magnetic Contact EN Grading according to CENELEC TS 50131-2-6

	MK240,MK250	MK270	MK140,MK440	MK470
	Grade	Grade	Grade	Grade
Indication Table 1	2	4	2	4
Tamper Security Table 2	2	4	2	1
Electrical Requirements Table 3	4	4	4	4
	Class	Class	Class	Class
Environmental Test, Operational Table 4	III	III	II	II
Environmental Test, Endurance, Table 5	III	III	I	I

Magnetic Contacts

Magnetic Contacts

Model No.	TKU2	MK200-1	MK200-3
			
General Description	Surveillance Contact	White Plastic Adaptor for steel doors, one pair	White Plastic Housing for surface mounting MK240 and MK270
Price £ R.R.P.	16.75	1.95	1.60
Model No.	MK200-4	MK200-6	MK200-7
			
General Description	Heavy Duty Aluminium Housing for MK240 & MK270	Heavy Duty Aluminium Housing, floor mounting for MK240 & MK270	Heavy Duty Aluminium Housing for MK240 & MK270
Price £ R.R.P.	5.80	8.40	8.20
Model No.	MK200-9	MK200-11	MK200-13
			
General Description	Stainless Steel Flexible Tubing, 100cm	Heavy Duty Aluminium Housing with extra strong magnet	Heavy Duty Aluminium Housing, floor mounting with extra strong magnet
Price £ R.R.P.	7.90	9.20	11.30

Access Control

Access – To enter protected areas or premises

Access Control – A method of automatically controlling entry to and/or exit from protected areas or premises

Access Control Database – A store on the computer or controllers of all the records required to make the access control system function as required

Access Control Software – A group of programs which are run, when required, on a computer (usually a PC) which perform specific tasks associated with setting up and using the access control system

Access Control System – Equipment used to control automatically the passage of people and vehicles into and out of protected areas and premises

Access Decision – The response by a controller to an access request (either access granted or access denied)

Access Denied – The access code does not allow a cardholder to gain entry to the protected area or premises

Access Granted – The card number and site code (and PIN if required) allow a cardholder to gain entry to the protected area or premises

Access Group – A list of areas to which a cardholder is allowed access. Access may be restricted to certain times by the use of a Time Schedule

Access Point – A Reader, usually at a point of entry or exit (door, gate, barrier, turnstile) where access is controlled (and monitored) by an access control system. Points of entry or exit which are used for anti-passback or roll call require two Readers and therefore two access points

Active Technology – Where an onboard long-life lithium battery enhances the output signal from a card or tag to the Reader

Address – A combination of numbers which uniquely identifies equipment on an access control system

Alarm – Warning of a possible breach of security of some kind

Alarm Actions – Instructions to be carried out when an alarm occurs

Alarm Bypass – Allows integration into a premises intruder protection system allowing arm/disarm control

Alarm Message – A message generated by the access control system when an alarm condition occurs. This message is received by the computer and interpreted by the access control software

Anti-Passback – The limiting of a card or tag's use in one direction without first having been used in the opposite direction. Requires IN and OUT Readers

Archive – A copy of the access control database kept for security against loss of data

Automatic Vehicle Identification (AVI) – Method of reading a vehicle tag fastened to the bottom of a vehicle using a loop antenna buried in the roadway. Can also apply to identification of the driver's card using a side loop or Reader

Backup – A second copy of a file, made as security against loss of data

Battery Backup – An alternative standby energy source that maintains system operation for a period of time in the event of a power failure

Baud Rate – The number of bits per second in data transmission

BC Link – Bewator propriety Reader interface

Bewacom – A Door Entry Phone System that connects directly to a Company's PABX system

Bewatel – A hardwired Door Entry Phone System

Break Glass Unit – Allows emergency release of electronically locked doors

Buffer – A temporary store for data, usually in RAM

Card – An encoded card that can be read by a Reader. Also referred to as a token or tag

Card Number – One of the numbers programmed into the card. The card number is linked to the cardholder in the cardholder record

Card Technology – The physical method by which numbers are stored within cards

Card Transaction – The act of reading data from a card and passing it to the access control system

Cardholder – A person to whom a card has been issued. (Also known as user)

Cardholder Record – One of a number of records in the access control database, each of which links a cardholder's name to the card number and an access group. (Can also contain other data such as PIN and personal details)

Glossary of Terms

Access Control

Cardreader – Equipment that reads data from a card (and PINpad if fitted) and transmits it to a controller. May include indicator lights

Clamshell – A card that is manufactured by the welding of two outer protective casings

Clock & Data – Industry standard Reader interface

Codelock – Digital compact keypad, allowing entrance via the use of allocated PIN codes

Command – An order or instruction that the operator gives to the system, usually at the computer keyboard. Also an instruction sent by a computer to a controller. The transmission of messages between devices

Common Code – A single PIN code that is allocated to all users

Computer – The device which runs the access control software and thereby maintains the access control database, sends commands and data, receives and logs system messages, and generates reports

Configuration – The relationship of system components to each other

Controller – A device which polls Readers, makes access decisions and sends messages to the computer. May also handle other inputs and outputs

Database – (See access control database)

DDA – Disability Discrimination Act. Government legislation forbidding discrimination of the disabled

Default – A standard condition or value determined by the system unless changed by operator intervention

Device – Any piece of equipment connected to a system

Dial-up Telephone Line – A normal telephone line which is used by a computer to communicate with controllers at remote sites via modems and vice versa

Door – The physical means of controlling access through an access point. Includes barriers, gates, turnstiles

Door Contact – Door monitoring switch which changes state when a door is opened or closed

Door Controller – A controller which is directly connected to the Segment Controller (see Segment Controller) and the Reader. Also contains connections for the Door Release (see Door Release), Egress Button (see Egress Button) or Break Glass Unit (see Break Glass Unit)

Door Forced Alarm – An alarm that is activated when a door is opened without a valid access request or the door exit control being used

Door Monitoring Switch – Switch which changes state when a door is opened or closed

Door Open Alarm – An alarm that is activated when a door remains open longer than a specified time

Door Release – An electro-mechanical device used to lock or unlock a door

Duress Alarm – An alarm that is covertly activated by entering a special PIN at an access point, the cardholder being granted access as normal so as not to arouse suspicion

Egress Button or Switch – A means of unlocking a controlled door from the secure side without a valid access request. Also referred to as door exit control

Entro – PC based Access Control software. Used for programming, editing and reporting of data and events

Event – Any system activity which takes place following a specified occurrence

Fail-Safe – A door lock that unlocks the door if power fails and requires continuous application of power to stay locked

Fail-Secure – A door lock that locks the door if power fails and requires the application of power to unlock the door

Hands-Free – Reading technology which enables a cardholder to gain access without having to hold the card in the hand. Typically giving ranges of up to 1 metre with HF100 or HF500 Readers or up to 2 metres with a Loop aerial

Hardware System – A Local Hardware System is one or more controllers connected to one serial port on any computer on the host computer's network. A Remote Site Hardware System is one or more controllers connected to a dialup modem

Heavy Duty Reader – A Proximity Reader manufactured from stainless steel and polycarbonate. Ideal for use in locations vulnerable to physical attack

Holiday – The access control software can be configured to provide different time frames on days designated as holidays

I/O – Input/output

Access Control

- IN Reader** – A reader that changes the status of a card in the cardholder record from OUT to IN for the purposes of the anti-passback and roll call functions
- Indicator Light** – A red or green or amber indicator lamp that shows the system's response to an access request
- Input** – An input is a signal which is monitored by a controller. Dedicated inputs are door exit control (egress), door contacts, controller/PSU tamper and PSU monitor
- Interface** – A device or protocol which enables communication between one device and another
- Invalid Card** – A card which is not allowed access
- ISO Laminated Card** – A passive 'credit card' sized card suitable for use with Photo ID applications (see Thermal Dye-Sublimation)
- Jumper** – A small shorting plug on a printed circuit board which can be moved to set an option
- LAN** – Local Area Network. Used in PC networks and can be utilised for Access Control communications (see Network)
- LED (light emitting diode)** – Small indicator light
- Local Hardware System** – See Hardware System
- Loop Antenna** – A piece of wire driven from a controller which is used to interrogate Active cards and tags
- Maglock** – An electro-mechanical device which uses magnets on the door and the frame to lock or unlock a door
- Magnetic Stripe Card** – A card that contains a band of ferrous material that can be magnetically encoded
- Menu** – A displayed list of commands or features available to the operator
- Mifare®** – A registered trade name for Smart Card technology (see Smart Cards)
- Modem** – A device which transmits and receives binary data across a telephone line. Used to communicate with controllers at remote sites
- Monitor** – Either, a part of the access control software which displays transactions. Or, the monitoring of certain parts of the access control system (door, input, etc) to check for certain conditions and generate alarms if necessary
- Mullion Mount Reader** – A Proximity Reader designed to suit door architraves
- Network** – Sometimes called a "local area network" or LAN. Connects computers together so that they can share files, printers and other peripherals. Any computer on the host computer's network can be connected to a Hardware System
- Off Line** – Communications between the computer and the access control system are halted
- On Line** – Communications between the computer and the access control system are open
- Operator** – Someone who has authority to log in to all or parts of the access control software
- OUT Reader** – A reader that changes the status of a card in the cardholder record from IN to OUT for the purposes of the anti-passback and roll call functions
- Output** – An output is a signal provided by a controller
- PABX** – Private Automatic Branch Exchange. Used by company's to run their internal telephone systems
- Panel Mount Reader** – A Proximity Reader designed to fit most 3rd party panels, such as Door Entry Phones
- Passive Technology** – A cost effective technology where the user has to actively present a card or tag to a Reader, Read ranges are typically around 10cm with Proximity Readers
- Password** – An alphanumeric code which, if recognised by the access control software, allows access to the access control database and other software functions
- PC** – A computer
- PIN (Personal Identification Number)** – A confidential 4-digit code assigned to a cardholder which is entered at a PINpad
- PINpad** – A keypad at which a cardholder enters his or her PIN
- Port** – A connection that provides a means of communication between devices
- Proximity** – Security industry term to describe Readers which read cards or tags without physical contact, but involving the act of presenting the card or tag to the Reader
- PSTN** – Public Switched Telephone Network. Used for standard telephone lines
- PSU** – Power Supply Unit

Glossary of Terms

Access Control

- Rain Hood** – A cover that protects Readers or Door Entry Phones from rain in exposed locations
- Reader** – The device that reads data from a card or tag and communicates the information to the controller for validation
- Reading Head** – A proprietary antenna which is used to interrogate cards or tags. Must be used with an interface to connect to the Access Control system
- Reconfigure** – Send the access control database to the controllers
- Record** – A unit of data stored on the computer which specifies the configuration of a particular part of the system, for example, a cardholder, an access point, a time schedule
- Re-index** – Tidy and condense the access database, removing deleted records and updating index files
- Relay** – Device which can switch high voltages and/or currents using a low power logic signal
- Remote Site** – A site which has controllers which are not connected directly to the host computer. The controllers communicate with the host computer at pre-configured times via a modem and a normal dial-up telephone line or via a LAN or WAN
- Report** – Either, a message indicating system abnormality, but which is not an alarm message. Or, a compilation of data from the log file or the access control database which can be displayed on the screen or sent to a printer
- Reset** – The condition of a device in its clear or inactive or normal state. Also, to switch a device to its inactive state. Also, the clearing of all or part of a system, returning the parameters to their default values
- RFID** – Radio Frequency Identification. The system by which data is transferred from cards and tags to Readers
- Roll Call** – A report which lists cardholders who are currently within a zone. (Also see IN reader, OUT reader and anti-passback)
- RS232** – A standard way of transmitting and receiving data down a cable. Usually used by the computer for distances up to 25 metres
- RS485** – A standard way of transmitting and receiving data down a cable over much greater distances than RS232. Used by the access control system
- Rx** – Shorthand for anything to do with the receiving side of an RF (radio frequency) system or data communications
- Segment Controller** – A controller that contains data for the Access Control system and validates or not card transactions. There are 4 variants capable of connection to up 4, 8, 16 or 32 Readers
- Shadow Card Pack** – A set of cards used to programme and delete cards into a standalone Magnetic Stripe Card-only Reader
- Smart Card** – A multi-application card often used for Cashless Vending. Access Control Readers can utilise the unique chip serial number found in every card, thus saving the need for a user to hold more than one card
- State/Status** – The current setting or condition of an access control parameter or variable
- Swipe Card** – Card which, to be read, must be passed through, or pushed into, a slot in the Cardreader
- Switch Plate** – A Proximity Reader that is designed to fit most single gang back-boxes
- Tag** – See card
- Tamper** – Unauthorised physical interference with the system, usually by opening enclosures or cutting or short circuiting cables
- Tamper Switch** – A switch that activates an alarm when a tamper condition is detected
- Telecode** – A patented Door Entry Phone System that connects directly the public telephone network (see PSTN), removing the need for hardwiring of handsets
- Thermal Dye-Sublimation** – A process where Photo ID cards are created by a printer heating the dye from a ribbon and then diffusing the colours into the plastic of an ISO Laminated Card (see ISO Laminated Card)
- Time Schedule** – A time slot linked with days of the week and holidays
- Toggle** – When a card or PIN is entered the first time, the door is opened and will remain unlocked until the card or PIN is entered a second time
- Token** – See card
- Transaction** – Any activity occurring in the system

Access Control

Transaction Log – File stored on the computer which contains all the transaction messages received by the computer. Used as a source of data for reports

Tx – Shorthand for anything to do with the transmitting side of an RF (radio frequency) system or data communications

Uninterruptible Power Supply (UPS) – A backup system that continues to supply pseudo-mains power for a short time in the event of a mains power failure

User - A cardholder. (As distinct from an operator)

Valid Card – A card which is allowed access

Validation Date and Time – The date and time when a system will validate or invalidate a card

Visitor Card – A card assigned for temporary use

WAN – Wide Area Network. Used in PC networks and can be utilised for Access Control communications (see Network)

Zone – An area within a site or facility, bounded by walls and by access points, used with anti-passback and roll call

Glossary of Terms

Video Control

AC – Alternating Current

Activity Detection – A simple form of video motion detection, activity detection merely produces an alarm indication when light levels change. Often used with digital recorders and video multiplexers to increase the update of cameras where activity is occurring

Address – A sequence of bits, a character or a group of characters that identifies a network station such as a telemetry receiver

AFC – Automatic Frequency Control the automatic tracking of an oscillator to a specific narrow range of frequencies

AGC – Automatic gain control – electronic circuitry to increase the video signal in low light conditions. This usually

introduces ‘noise’ in the picture giving a grainy appearance

AI – Automatic Iris a function of a lens that automatically adjusts to varying light levels to allow the correct amount of light to fall upon the image sensor

Alarming – Ability for CCTV equipment to respond to an external alarm input, providing numerous functions such as to switch the relevant camera signal and alarm start a recording device

ALC – Automatic Level Control on AI lenses a manual adjustment also known as Peak/Average, a facility to make the lens respond more to the highlights (Peak), or more to the darker scenes (Average), providing a user adjustment of information seen in the highlight

Algorithm – A rule or procedure for problem solving, a commonly used term in mathematics

AM – Amplitude Modulation

Ambient Light – The general light level of any given scene

Analogue – An electrical voltage that is directly proportional to a given input, i.e. giving a correspondingly variable output

Angle of View – The limits of the viewing area of a camera/lens

Aperture – The measure of the light gathering capability of a lens. The maximum aperture is the minimum ‘f’ stop of a lens, generally the lower the ‘f’ stop the better

Aperture Correction – Switchable correction circuit that electronically sharpens the image of a picture

Armour – Protection given to a cable to provide resistance to damage that may be incurred from being crushed or cut

Aspect Ratio – Ratio between the vertical and horizontal image size of a camera sensor, the ratio is 4:3

Asynchronous Data – Most common form of data, where data is passed without any clocks or timing information. Uses start and stop bits to synchronise

AT Commands – A protocol used between a modem and terminal equipment for autodialing and configuration of the modem

Atex – ATmospheres EXplosibles. European Directive that all equipment intended for use in hazardous environments where there may be a risk of explosions due to the ignition of gas, vapours, mists, liquids or dusts must comply with

Attenuation – Term used to describe the amount of loss seen in a video signal when transmitted from one point to another

Automatic Iris – A lens that adjusts automatically to allow the right amount of light to fall on the imaging device. There is a tiny motor and amplifier built in which receives a control signal from the camera to maintain a constant one-volt peak-to-peak (pp) video level

AUX – Auxiliary

Back Focus – A mechanical adjustment for focusing a camera. It moves the image sensor in relationship to the lens to accommodate for different back focal lengths of lenses. This is important when a zoom lens is fitted

Balanced Signal – Term generally associated with the transmission of video signals over twisted pair cables. A circuit of two conductors equal to each other in voltage but opposite in polarity. Generally used to improve noise immunity

Bandwidth – A value expressing the difference between the upper and lower limits through a range of allowable frequencies

Baud – The speed at which data is transmitted, i.e.. 1 baud = 1 bit per second

Video Control

Bit – A binary digit, the smallest element of information in a binary system

Black Level – A measure of picture signal level, that matches to a specified maximum limit for black peaks

Blanking Period – The period of the composite video signal at black level (0.3V) and below when the retrace occurs

BLC – Back Light Compensation – an electronic feature of modern CCD cameras to allow viewing of highlighted scenes that would normally be silhouetted, thus providing more detail

BNC – The most common form of video connector used in CCTV

BPS – Bits per second

Broadband – Communications transmission where the signal is impressed on a higher frequency carrier allowing higher bandwidth data to be transmitted

Bridging – The connection of more than 1 electrical circuit or component in parallel

BSIA – British Security Industry Association

Burn – An image that has become permanently frozen onto the sensitive region of a camera or monitor tube

Bus Network – A topology network where all terminals are attached to a transmission medium serving as a bus

Cable Equaliser – Increases the video signal level by amplification, used on long cable runs to compensate for the loss in video signal level

CAD – Computer Aided Design

Cameo – Term seen in video multiplexer terminology, represents one sixteenth of the area of a full screen

Camera Head – Either a housing with pan & tilt head combined, or a dome

CCD – CCD: Charge coupled device. It is light sensitive and forms the imaging device of most modern cameras. Size is measured diagonally and can be 1/3", 1/2", etc". There are two types, frame transfer and interline transfer

CCIR – Committee Consultative International Radio communications. Monochrome Video Signal for most of Europe, Australia and the Middle East 625 lines, 50Hz

CCTV – Closed Circuit Television. A television system used for private purposes and not for public or general broadcast

Chroma Burst – A reference signal (4.43Mhz) included in the video signal after the horizontal synchronisation line pulse

Chrominance – The part of a video signal that contains all of the colour information

CIF – Common Intermediate Format. A standard definition of image resolution = 352x288 pixels

2CIF – A standard definition of image resolution = 2xCIF = 704x288 pixels

4CIF – A standard definition of image resolution = 4xCIF = 704x576 pixels

16CIF – A standard definition of image resolution = 16xCIF = 1408x1152 pixels

Cladding – In Fibre Optics the outermost region of an optical cable, less dense than the central core, it acts as an optical barrier to prevent transmitted light leaking away from the core

Client – A computer, device or application that relies on one or more servers for resources such as files, devices or even processing power

Clock – A name commonly used for any of the sources of timing signals used in synchronous data transmission

CMOS – Complimentary Metal Oxide Semiconductor. Solid-state switching device, also used as a camera pick up device

C-Mount – Industry standard thread mounting portion on the rear of a lens. Note a C mount lens can be used on a CS mount camera with a 5mm adaptor ring, however a CS mount lens cannot be used on a C mount format camera

Coaxial Cable – A shielded cable containing a central conductor

Comet Tails – A condition that appears on a VDU that is caused by near burn combined with image movement

Composite Sync – A signal containing Line and Field pulses, but one that has no video information

Composite Video – The combination of all electronic information required to produce a video signal. Comprising 0.7 volts video and 0.3 volts sync. hence the term one volt peak to peak

Glossary of Terms

Video Control

Compressed Picture – A compressed picture is a full size picture that has been reduced in size while still displaying all of the original screen information

Compression – Taking standard video signals and reducing them into compact digital data

Conditional – A technique used by some video transmission systems. Once the first image has been constructed only the part of the image that changes is subsequently transmitted, allowing high-speed updates when little movement is seen. However, the speed of update decreases with more movement

Core – Central region of a cable

CPU – Central Processing Unit – the main device that contains the processing logic

Cross Talk – Electrical interference caused by electromagnetic or electrostatic coupling by nearby conductors or external sources. Interference between two or more signals in close proximity within a band pass

CRT – Cathode Ray Tube – a device that is used to display information on a TV or Monitor

CS to C-Mount Adaptor – A spacer ring of 5mm that allows the use of C mount lenses on CS mount cameras

CS-MOUNT – Uses the same thread as C mount but requires the lens to be 5mm closer to the image sensor, new industry standard for lens mounting. A C-mount lens can be used on a camera with a CS-mount by adding an adapter ring to reduce this distance to 12.5mm

20mA CURRENT LOOP – Electronic signalling method for CCTV, used for controlling remote camera functions. Data is sent via a pair of wires, offers greater distance capability and is less susceptible to interference than similar 2 wire data transmission systems

C-TYPE – Telemetry transmitted on a high frequency carrier over the top of the video on a coax

Dark Current – The thermally induced current that exists in a photo diode in the absence of incident optical power

DAT – Digital Audio Tape, a technology for storing massive amounts of digital information in a small package

DB – Decibel – a logarithmic ratio between two signals

DC – Direct Current

DD – Direct Drive – a new form of auto iris drive for lenses, whereby the lenses requires a DC reference from the camera opposed to a video level required by AI lenses

Decode – Seen in multiplexer terminology referring to the playback of images from tape

Decompression – Taking digitally compressed information and restoring this to normal video images

Definition – The ability of a camera or monitor to resolve fine detail, measured in lines

Depth of Field – Area of view that is in focus, the depth of field decreases as the aperture increases

Desktop Switcher – A device to select incoming signals from a number of cameras for display onto one or more monitors

Digital Signal – A signal that comprises binary information i.e.. 1 or 0, to allow processing by microprocessor based equipment

Distribution – A device that separates and amplifies input signals for multiple outputs

Dropout – The loss of video signal from a magnetic tape playback head or worn or damaged tapes

DTMF – Dial Tone Multi Frequency – used by some manufacturers for telemetry signalling over twisted pair cables

D-Type – Telemetry using RS485 over twisted pair cable

Duplex – Seen in multiplexer terminology where two simplex units have been assembled as one unit, allowing the equipment to perform two functions simultaneously, i.e. Record pictures to tape whilst displaying multi-screen images of cameras at the same time. In data transmission terminology the term means that the transmission system is capable of transmitting and receiving data

DVMS – Digital Video Management System. A system that facilitates monitoring, control and recording of cameras and alarms locally and / or remotely using computer networks

DVR – Digital Video Recorder. Video stored onto a computer hard disk. Compression is normally used in order to maximise the amount that can be stored

DVST – Digital Video Storage & Transmission name given to equipment that can compress video pictures to a fraction of their former size for transmission over communication networks or for digital storage. Note: this equipment transmits the total image every time

Dwell Time – The time duration a video switcher will stay on a camera before moving onto the next camera

Video Control

- EI** – Electronic Iris – a feature of modern CCD cameras where the camera electronics automatically varies the shutter to mimic an AI lens, allowing the use of fixed or manual iris lenses in a wider range of areas
- EIA** – Electrical Industries Association. Monochrome video signal for North America and Japan TV standard – 525 lines 60Hz
- EMC** – Electro Magnetic Compatibility standards that dictate the levels of EMI that equipment must withstand and emit
- EMI** – Electro Magnetic Interference – electrical or electromagnetic energy that may cause unwanted responses, degradation or failure in electronic equipment
- Encode** – Seen in multiplexer terminology as the recording of images to tape
- Error Correction** – Method employed by modems to ensure that data is transmitted or received error free
- External Sync** – The ability of electronic equipment (normally seen in cameras) to accept a synchronisation signal from an external source and synchronise itself to it
- ‘F’ STOP** – The ratio of the focal length to the effective diameter of the lens. The smaller the ‘F’ stop, the more light is passed. The ‘F’ stop directly affects the depth of field
- FC** – Foot Candle – American measurement of light, 10fc equals 1 lux
- FI** – Fixed Iris
- Fibre Optic** – Method of sending signals using light. The system has very high immunity to electrical noise and signal cross talk and can be transmitted over long distances using flexible glass fibres and often using infrastructure provided by cable and telephone companies
- Field** – One half of a frame comprising 312.5 lines, there are 50 fields per second
- Field of View** – The image area produced by any camera/lens combination
- Flange Lengths** – Referring to lenses – C mount = 15.5mm, CS mount = 12.5mm
- FM** – Frequency Modulation
- Focal Length** – The focal length of a lens measured in millimetres, has a direct relationship to the angle of view that is obtained. A short focal length provides a wide angle of view and a large focal length provides a narrower angle of view
- FOCAL POINT** – The point at which light passing through a lens is concentrated
- FPS** – Frames Per Second
- Frame** – One complete TV picture, one frame is made up of two fields, TV pictures are made up of 25 frames per second
- Frame Store** – An electronic method of capturing and storing a single frame of video. All slow scan transmitters include a frame store that holds the picture at the moment of alarm, while the control is being dialled up. When the link is confirmed, the picture is transmitted
- Frame Transfer** – Type of CCD imager used by some cameras
- Frequency Response** – The capability of a device to transmit or receive a given range of frequencies
- Front Pitch** – A portion of a composite video signal that is located between the start of the horizontal blanking pulse and the start of the corresponding sync. Pulse
- FSK** – Frequency Shifted Keying – a form of signalling employed by some coaxial born telemetry equipment
- Full Duplex** – Simultaneous transmission and reception of data
- Full Picture Update** – Used to describe video transmission products that send the total image on each update
- Galvanometric** – A method of converting the minute electric currents produced by AI circuits, used by both AI & DD lenses
- Gamma Correction** – Balances the light seen by the camera to that of the monitor
- Gen Lock** – As per external sync, allows cameras to synchronise to a common signal, providing bounce free switching of images
- Ghosting** – Multiple images caused by video signal transmission echoes, not to be confused with burn in
- GB Gigabyte** – 1000 megabytes
- GIP** – Graded Index Profile – a measurement shown in the form of a diagram, which illustrates how the quality of glass used in fibre optics alters gradually from the densest at the core to the optically less dense cladding
- GLT** – Ground Loop Transformer – an isolation transformer with no direct contact between input and output

Glossary of Terms

Video Control

Ground Loop – Caused by different earth potentials clearly seen as interference or hum bars on a video signal

Half Duplex – Non-simultaneous transmission and reception of data

Hardware Compression – Video data compression taking place in specialised purpose built microchips

Hard Wired – Direct cable connection from one product to another, used for control of equipment in simple systems

Hayes Compatibility – When a modem complies with the Hayes AT command language used by most communication software packages

Helical Scan – Recording system used by VCR's, a record/playback head used by VCR's whereby the head rotates scanning the videotape in a helical path

Horizontal – The amount of information that can be displayed upon any VDU (measured in lines)

HZ – Hertz Cycles per second. The measure of frequency

Ident – Camera caption or number displayed on a video signal

Illuminance – Measurement of light in lumens per square metre, the unit of which is lux

Image Intensifier – A device that uses fibre optics to increase the sensitivity of a pick-up tube

Image Plane – The surface upon which an image is formed in a camera

Image Sensor Format – Refers to the size of the image plane within a camera

Impedance – Measured in ohms, refers to the combined resistance and reactance in an electrical circuit.

Interlace (2:1) – Refers to the combination of two fields, one odd, and one even to produce a single frame

Interleaving – Term used in multiplexing. When a camera is alarmed, be it via external means (PIR) or by activity detection, then it is recorded every other frame

Interline Transfer – Type of CCD imager used by some cameras

Internal Sync – The internal generation of sync pulses in a camera using a crystal controlled oscillator. This is needed on non-mains powered cameras

IP – Internet Protocol. A data transmission protocol used in some computer network systems such as the Internet

IP Address – Every device connected to a network that uses the TCP/IP protocol has a unique IP address that is made up of four sets of numbers separated by dots e.g. 131.103.243.192

IP Rating – A rating used to provide an index of protection from elements such as water and dust ingress.

IR Lighting – Lighting that is above the wavelength visible to the eye, used for discrete illumination in CCTV systems

IR Shift – Difference in focus of a camera's field of view between white and IR lighting

IR Transmission – Method of sending video signals and/or data over free space, distance and quality of transmission is affected by environmental conditions such as fog and rain

Iris – Mechanism within a lens to regulate the amount of light that passes through, and falls upon, the image sensor

ISDN – Integrated Service Digital Network – an International standard for voice and data communications offering greatly improved transmission speeds than the older PSTN network (Public Switched Telephone Network)

ISIT – Intensified Silicon Intensified Target – usually used for extreme low light CCTV or X-Ray machines

ISO – International Standards Organization

I/O – Input/Output

I/P – Input

JPEG – Joint Photographic Expert Group. An image compression standard for still images, works by sampling the image in small blocks and removing frequencies from the samples that are not detectable to the human eye (such as slight differences in luminance). JPEG is a widely adopted format being supported by web browsers and the Windows operating system

JPEG2000 – Latest Joint Photographic Expert Group standard based on wavelet compression

Kilo – Order of magnitude 103. (1,000)

KB -Kilobyte – Unit of measurement for storage or file-size made up of 8'bits' of information

Lag – Retention that occurs in a video image when rapid motion of the camera or viewed object leaves a trail

Video Control

- LAN** – Local Area Network – Communications network for electronic equipment, limited to usually a single building or site
- Laser** – A source of exceptionally pure light that can consist of a single wavelength concentrated into a straight beam, used to transmit IR lighting through fibre optic cable
- LCD** – Liquid Crystal Display. Display technology that is replacing CRT due to its compactness and lower power requirements
- Leased Line** – A telephone connection giving a permanent point-to-point link
- LED** – Light Emitting Diode
- Line Amplifier** – Device that prepares a signal for transmission over extended cable runs by amplifying the signal strength
- Line Fed** – A camera that is powered down the same cable that it uses to send the video information back to the monitor
- Line Locked** – A camera that is synchronised to the frequency of its AC power supply
- Line Powered** – See line fed
- Looping** – A piece of video equipment that allows video signals to pass through without being terminated
- Luminance** – Y the monochrome element of a video signal
- LUX** – Unit of light measurement
- Matrix Switching** – A video switcher that allows any input to be switched to any monitor output
- MCL** – Maximum camera length
- Mega** – Order of magnitude 10⁶. (1,000,000)
- MB-Megabyte** – 1000 kilobytes
- Mbps** – Megabits per second. Measurement of speed of transmission over a network. The rate of transmission being 1 million bits of information per second
- Megastream** – Communications network comprising many hundreds of individual communication channels
- MI** – Manual Iris
- Micro** – Order of magnitude 10⁻⁶ (one millionth)
- Microwave Transmission** – Method of sending video signals and/or data over free space, longer distances than IR transmission can be achieved. Licensing is usually required
- MILLI** – Order of magnitude 10⁻³ (one thousandth)
- MJPEG** – Motion JPEG. A video sequence created from a series of JPEG still images
- Mode** -Path taken by light rays along fibre optic cable
- Modem** – Modulator / Demodulator – device used for sending digital signals over an analogue network, i.e. Video transmission over the PSTN network
- Modulation Modulator** – Modulation is the impression of a baseband video and audio signal to a radio wave (RF Frequency) that can be processed (demodulated) by a television tuner. This modulated RF frequency can then be combined with an existing feed of local channels and be distributed to all the televisions on a coaxial network as a new channel
- Monitor** – A video display unit used to display images from a camera or computer
- Monochrome** – A black and white picture
- MOS** – Metal Oxide Semiconductor – a form of CCD imager used in some CCD cameras
- MPEG** – Moving Pictures Expert Group. A method of compression using a conditional refresh technique where reference (intra) frames are captured periodically and during the intervening periods only the changes from one frame to another (inter frames) are used. This makes this form of compression especially efficient where there is little change between successive frames
- MTBF** – Mean Time Between Failure – the average time between equipment or component failure
- MTTR** – Mean Time To Repair – the average time it takes to repair a piece of equipment
- Multimode** – An optical fibre that supports more than one propagation mode
- Multiplexer** – A unit that can accept a number of camera inputs and almost simultaneously display them on a single monitor and/or record them to a single videotape. Multiplexers can also be used to transmit multiple cameras over the same transmission medium
- Multiplexer** – Process in which multiple cameras are transmitted or recorded

Glossary of Terms

Video Control

Mux Multiplexer – An electronic system that can accept a number of camera inputs and record them virtually simultaneously. They can also provide multi screen displays with four, nine, sixteen etc. cameras on the screen at once. Multiplexers can be used to transmit up to sixteen pictures down a single video line whether it is a coaxial cable, microwave, infrared link etc. This requires a multiplexer at each end of the line

NANO – Order of magnitude 10^{-9}

NAS – Network Attached Storage

ND – Neutral Density

ND Filter – A glass filter that attenuates the light evenly over the visible spectrum, used to force the iris on a lens to open in order to focus the camera for low light conditions

ND Spot Filter – A graduated filter fitted to the centre of a lens, restricting the amount of light that can effectively pass through to the image sensor

Noise – Appears on screen as graininess or ‘snow’ effects on a video image

Non-Composite Video – A video signal that is complete, except for the synchronisation information

NTSC – National Television Standards Committee. Colour Video Signal, North American and Japanese television standard – 525 Lines, 60Hz

N/C – Normally Closed

N/O – Normally Open

O/P – Output

PAL – Phase Alternate Line – Colour Video Signal standard for most of Europe, Australia and the Middle East – 625 Lines, 50Hz

Pan & Tilt – Pan & Tilt head – a device that will move a camera both horizontally and vertically from a remote location

Patch Panel – A panel that joins or terminates many different circuits

PCM – Pulse Coded Modulation

Peak to Peak – A value based on the maximum positive and maximum negative points of a waveform, for video the standard is 1V peak to peak

Peak White Inverter – Circuitry that will convert white highlights over a pre-set brightness threshold to black. This is useful for car registration recognition when headlights are on.

PETA – Order of magnitude 10^{15} (1,000,000,000,000,000)

PETA Byte – 250 Bytes (1,125,899,907,842,624 Bytes)

PH – Pin hole, normally refers to a pinhole lens

Photo Detector – A device fitted to a fibre optic link to convert light to electrical power

Photocell – A device used to detect changes in light level and provide an automatic switched output when lighting levels fall to a predetermined level

Photon – Quantum of electromagnetic energy, a particle of light is a Photon

PICO – Order of magnitude 10^{-12}

Pigtail – Short length of fibre optic cable attached to another component such as a source of coupler

PIP – Picture in Picture – device used to superimpose one video signal over another in one display

PIR – PIR is the abbreviation of “Passive Infra Red”, which is a motion sensor to detect heat from moving objects, such as human bodies and animals. When any motion is detected, P.I.R. will trigger the alarm system

PIXEL – In a digital display a pixel is the smallest individual dot that can be separately illuminated

PL259 – UHF connector now largely replaced by the BNC connector

Pre-Sets – Pre-positioning of P/T/Z/F (Pan/Tilt/Zoom/Focus) functions on functional cameras, activated by alarm inputs or operator selection

Pre-Set Controller – A function contained within a telemetry system that, on receipt of a signal, causes a particular camera to pan, tilt and zoom to a predetermined field of view. Most systems can accommodate up to sixteen pre-set positions for each camera. This is an especially useful feature on larger systems with alarmed areas

Protocol – A set of rules governing the flow of information in a communications system

Video Control

PSTN – Public Switched Telephone Network – analogue communications network used for day-to-day telephony and data transmission.

PSU – Power Supply Unit

Quad Splitter – A device used to display 4 cameras simultaneously on a single monitor

Rack Mount – Piece of equipment that can be housed into a rack enclosure, industry standard is 19” width (to outside of mount) with the height measured in U. 1U = 1.75 inches. (44.45 mm)

RAID – Redundant Array of Independent (or Inexpensive) Disks. A category of disk drives that employs two or more drives in combination for fault tolerance and performance

Random Interlace – Method of television scanning that does not define a strict relationship between adjacent scan lines in sequential fields

Raster – Pre-defined scanning area for a television picture tube

Reflectance – The level of light that is reflected off any given surface, normally shown as a percentage

Reflected Light – Scene illumination multiplied by reflectance. This is the light level available for the camera and determines picture quality

Refraction – Deflection of light at certain angles when it enters obliquely from another medium of different density

Remote Switchers – A video switcher with a main switching box whose controller can be sited remotely via a single or pair of cables
REMOTE SWITCHER: A video switcher which is connected to the camera cables and which contains the switching electronics. This unit may be remotely located and connected to a desktop controller by a single cable for each monitor

Repeater – Device that amplifies and then re-transmits a signal

Rise-Time – The time required for the leading edge of a pulse to rise from 10% to 90% of its total amplitude

RS170 – Video Sync Pattern for the United States – 525 lines 60Hz

RS232 – Computer communications interface standard using unbalanced signals capable of full duplex communications

RS422 – Computer communications interface standard using balanced signals capable of full duplex communications

RS485 – Computer communications interface standard using balanced signals capable of half duplex communications

RX – Receiving equipment

Scanner – Device for remotely controlling the horizontal movement of a camera pan only

SCART – Standard European connector for carrying audio and video signals

Scene Illumination – The density of light in LUX falling on the area to be viewed. For best results the ratio of the lightest to the darkest areas should not be more than a factor of two

Screen Splitter – Device used to display two cameras on a single monitor, splitting the screen horizontally or vertically

SECAM – Sequential Colour & Memory – colour television broadcast system used in France

Sensitivity – For a camera usually specified in lux to provide indication of light level required to gain a full video signal from the camera

Sever – A computer, device or application that manages network resources

Shutter – Electronic circuit found in many CCD cameras, which allows the light gathering period of the camera to be manually altered

Simplex – Term seen in video multiplexers. With a simplex multiplexer you can only perform one function of recording or playing back at a time, i.e. If you are reviewing images from tape, you cannot record images or view live images in a multi-screen format. In data transmission terminology the term means that the transmission system is capable of either only transmitting or only receiving data

Slave – A secondary item (control position) that performs the same, or limited functions, of the master position

Slowscan – Old form of video transmission over telephone networks, replaced these days by Fastscan, DVST or IP systems

Glossary of Terms

Video Control

SN Ratio – Signal to noise ratio, a measurement of the noise level in a signal expressed in dB (decibels). In a video signal values from 45dB to 60dB produce an acceptable picture. Less than 40dB is likely to produce a 'noisy' picture

Software Compression – Video data compression achieved by computer program processing

Spectral Response – Sensitivity of an imaging device to different frequencies of light. Visible light is 300 to 730nm; IR is 715 to 850nm and invisible IR 850nm+

Speed of Update – The time taken to refresh a single picture

Spike – An amplitude surge. An undesirable momentary increase in electrical current or signal

S-VHS – Super Video Home System – a higher resolution recording medium than VHS

Swivel Mount – Used on camera and housing mounts to allow precise positioning of cameras

SYNC GENERATOR – Device that produces a synchronisation signal

Synchronisation – The occurrence of two or more electrical events at the same time – in sync

Synchronisation Data – Data and synchronisation pulses sent at the same time, used for more sophisticated communications

TA – Terminal Adaptor – used to connect video transmission products to an ISDN digital telephone line

TCP/IP – Transmission Control Protocol / Internet Protocol. A communications protocol used to connect servers on the Internet and the de facto standard for transmitting data over computer networks

TDG – Time & Date generator – device used to overlay the time and date on a video signal

Telemetry – The system by which a signal is transmitted to a remote location in order to control CCTV equipment e.g. to control pan and tilt and zoom functions, switch on lights, move to pre-set positions etc. The controller at the operating position is the transmitter and there is a receiver at the remote location. The signal can be transmitted along a simple 'twisted pair' cable or along the same coaxial cable that carries the video signal

Termination – In CCTV the termination is 75 ohms; if a signal is being looped then equipment should be set to Hi-Z (un-terminated)

TERRA – Order of magnitude 10^{12} . (1,000,000,000,000)

TERRA Byte – 2240 Bytes (1,099,511,627,776 Bytes)

Time Base – Method used to align unsynchronised camera signals, widely used by video multiplexers and quad splitters

Time Lapse VCR – A VCR that can slow down its recording rate, used to extend the length of recording on a standard 3 hour tape to as much as 960 hours. Achieved by the tape moving in steps and recording one frame at time. This means that if set to record overlong periods much information can be lost. On receipt of an alarm signal these machines can be automatically switched to real time mode

Touch Screen – A system by which all the camera controls are displayed on the screen of a special monitor. To control any function simply requires the screen to be touched on the appropriate symbol, which can be to select a camera or pan, tilt and zoom. The system is computer driven and can include maps, diagrams etc. that are automatically displayed according to the alarm received

TP – Twisted Pair – an electrical wire consisting of two conductors twisted around each other

Transducer – Device used to convert a form of energy into electrical energy

TVL – Television Lines – used to describe the resolution of a camera or VDU

TX – Transmitting equipment

Unbalanced Signal – Term used for coaxial cable transmission

Unterminated – Input to a unit in a CCTV system that requires looping to another piece of equipment

Varifocal – A type of lens that allows manual adjustment between two focal points to provide the desired field of view

VCR – Video Cassette Recorder

Video Motion – A method of detecting movement in the view of the camera by the electronic analysis of the changes in the picture

VDU – Video Display Unit

Vertical Interval – Sequential video switchers that wait until the current field has completed its cycle before

Video Control

Switcher – Switching to the next camera, even though the dwell time may have been exceeded. Thus reducing the amount of bounce seen between switching images

VHS – Video Home System – VCR format and name given to 1/2" cassette tape used in VCR's

Video Launch – An amplifier placed between the video source and the transmission cable, used where the signal needs to be processed before being launched over coaxial or twisted pair cables

VMD – Video Motion Detection

V.24 – List of definitions between terminal equipment and modems

V.34 – 28800 bps modem for PSTN and leased line circuits

Wavelength – Distance between the same two points on adjacent waves, or the time necessary for a wave to complete a single cycle

Wavelet – A form of image compression. The advantage of wavelet compression is that, in contrast to JPEG, wavelet algorithm does not divide image into blocks, but analyses the whole image. The characteristic of wavelet compression is that it achieves the best compression ratio, whilst maintaining the quality

WDM – Wavelength Division Multiplexing

2 Wire – Transmission medium using the same two wires for transmit and receive channels (such as RS485).

4 Wire – Transmission system using 2 separate pairs of wire for the transmit and receive channels (such as RS422)

White Balance – Used in colour CCD cameras. White should be referenced and determined by colour temperature for the truest colour rendition

White Level – The brightest part of a picture corresponding to 1V peak to peak (0.7V above black level)

X.21 – General-purpose interface between data terminal equipment and data circuit terminating equipment for synchronous operation on public data networks i.e. ISDN

Y/C – Video signal containing separate luminance (Y) and chrominance (C) to provide greatly improved picture quality from VCR's i.e. S-VHS

Zoom Ratio – A lens with variable elements giving adjustable magnification and differing fields of view in one, i.e. 12:1

Glossary of Terms

Intrusion Products

12M Volumetric Lens – Standard lens used on PIRs. Gives full room coverage made up of 24 beams

30M Lens – This is an optional lens available for some PIRs. The angle of coverage has been made narrower which in turn sends the PIR beams further (30 metres). Suitable usage would include corridors

ABS – Stands for Acrylo-nitrile Butadiene Styrene. This is a soft plastic, which is generally used for PIR mouldings

Access – This zone type is also known as a walk through zone. It is particularly useful if, when entering the premises you have to pass a PIR to get to the control panel. It will only allow you to walk past if the entry/exit zone, i.e. the front door, has been opened first. If any other means of entry is used it will trigger an immediate alarm condition

ACPO – Association of Chief Police Officers

Advanced Temperature Compensation – This is a feature found on some PIRs. It will adjust the threshold levels on the unit, as the background temperature of the room changes, i.e. through heating coming on. This helps to prevent false alarm activations that can be caused by temperature changes

Antimask – Anti-mask is a feature built into a number of detectors that recognises if someone is try to mask the detector, effectively jamming the beam array to prevent the detector picking up motion. If an attempt to mask the detector is detected, the alarm will be activated

ARC – Alarm Receiving Centre. A secure location where signals are monitored 24hours a day

Audio Verification – This is another means of confirming an alarm signal to the monitoring station, in line with the ACPO policy. It works by having microphones situated around the premises. When the monitoring station receives an alarm signal they can ring though to the premises, which in turn will switch the microphones on and allow them to listen quickly to any activity

Ceiling Mount Bracket – This is a standard bracket for use with most of our PIRs. It would be mainly used when it is difficult to mount the PIR in the corner, in particular when there is coving in-situ.

Covered PCB – This is a lacquered PCB with a cover secured over the top of it. This will give some formal weather protection, but is by no means as effective as encapsulated modules

Curtain Lens – This is an interchangeable lens available for all of our PIR units. It changes the beam pattern to a straight vertical coverage, used across a doorway for example

Db Output – The sound output from all sounders, internal or external are measured in decibels. By law this cannot exceed 125dB

Dualtech – A Dualtech is a dual technology detector which uses both PIR and microwave technologies to detect movement. For the detector to alarm, both the PIR and microwave Technologies Need To Detect Movement, Thus Reducing The Risk Of False Alarms

EMI – Electro Magnetic Interference. This type of interference can be generated by computers or microwaves, and can cause major problems to any electronic circuit board. Manufacturers take this into consideration when designing products, to ensure EMI does not cause damage to the product's working functions

Encapsulated Bi-Morph Sensor – A bi-morph sensor is a wafer thin piezo element. When the element trembles through vibration, it activates an alarm condition. It is normally encapsulated to protect it from damage caused on installation.

ENCAPSULATED PCBs – Encapsulated PCBs are manufactured by taking a PCB, giving it a formal lacquer coating and enclosing it in a plastic module. To further enhance this, silicone sealant is put around the edge of the module, which makes the unit totally airtight. The major benefit of this is the protection it gives from moisture and dust ingress, the biggest cause of bell box failures. Encapsulated PCBs will outlast Open or Covered PCB's every time

End Of The Line Resistor – This style of wiring is available for use on many control panels. It is the most secure form of wiring available and makes it virtually impossible for an intruder to compromise the system. It also provides a means of extending the number of zones on some panels at no extra cost. This is done by converting the individual tamper zones into alarm zones, and then using two types of resistors to differentiate between an alarm and a tamper condition

Fresnel Lens – This is the lens on a PIR. It is called a fresnel lens due to the grooves cut into it. It is these grooves that create the beam pattern. There are 4 main types, which are: 12 metre, 30 metre, Pet Alley or Curtain

Intrusion Products

Glass Break Detectors – Glass break detectors are activated by detecting the noise made by breaking glass. There are many advantages to using these detectors, they are visually more appealing, they are less expensive to install/maintain, and they are less prone to service problems. One of the major advantages of using this type of detector, however, is that the burglar is detected before he enters your home not after, as is the case with motion detectors

LED – Light Emitting Diode. LEDs are used on many control panels, keypads, bell boxes, etc. They are used on the panels as an indication of the function being used. On bell boxes they are used as a visual deterrent

Light Pipe – This feature is available on some PIRs. It is a clear section at the top of the unit, through which we can see the LED. On a standard PIR the LED is behind the lens, which can be difficult to see when you are a long distance away from the unit

Look Down Zone – This feature is available on some detectors. These units have a lens on the bottom of the detector through which a beam is sent. This gives greater protection by stopping attack from beneath the unit. This is also a useful feature if using PIRs on a stairway

Milliamps – There are 1000 milliamps in 1 Amp. Every technology attached to a security system draws current, and this is measured in milliamps, for example: a control panel generally has a 1 Amp power supply built into it, from that we need to deduct the power need for every PIR, Shock sensor, Bell box etc. If we took a basic system in normal mode it would be drawing approx. 550 milli-amps, but in alarm condition this could jump up to about 900 milli-amps

Mirror Optics – Mirror optics are used in some detectors, where a concave mirror is used to focus the infra-red energy, rather than a Fresnel lens that is normally used. The advantage of mirror optics is that the infra-red energy is more accurately focused, increasing the quality of detection

Open PCB's – These are lowest specification PCB's available. It is a board with a formal lacquer coating, which gives it some protection from outside extremities, but is definitely not recommended for use at coastal sites, where a high amount of salt air will corrode the unit very quickly

Passive Infra-Red Detector (PIR) – This is the standard detector used on most systems. PIR detectors are electronic devices that detect an intruder by sensing his body heat when he enters or moves around the area of protection. The device consists of a mirror or lens that can focus the energy, a thermal sensor to detect the energy, and associated electronics to analyze the information. The mirror/lens divides the area of coverage into multiple zones of detection. This can be visualized by holding your hand out and spreading your fingers. Each finger represents one optic zone of the detector. An actual PIR detector actually uses much more than 5 zones of detection, and some models can detect motion up to 200 feet from the unit. The PIR can only detect motion within one of its zones and is most sensitive to motion across the zones since this is what causes the greatest change in energy

Pet Alley Lenses – This is an interchangeable lens available for use with some PIRs. It changes the beam coverage to start the detection at mid room level. This is to allow small pets to walk around under the beams

Pet Immune Detector – There are several so-called "pet immune" detectors on the market. With the ones tested so far, they are pet-immune but only in certain conditions. There is no true pet immune detector yet available, which would disregard an animal no matter what its size or distance away from the PIR. The best way to overcome the problem of pets is to use perimeter protection instead

Piezo Sounder – The piezo sounder is used on the majority of external sounders. The sounder consists of an electronic piezo element, which gives a very high-pitched output. The benefit of this is that it is low cost and loud, the disadvantage is it is not directional. Police and ambulance sirens also use this type of sounder

Potentiometer – A potentiometer is an adjustable resistor which is used for applications such as a volume adjuster on some control panels and a sensitivity adjustment on shock sensors. It has a small wheel that controls the level

Power Supply Or PSU – Power supplies are used to give the right voltage and current required to power all technologies on an alarm system. There is normally a power supply built into all of control panels that are 12 volt rated. However, additional PSUs are also sold that are boxed in either polycarbonate or metal enclosures. These tend to be needed for larger systems

Glossary of Terms

Intrusion Products

Pulse Count – This is available on both some PIRs and shock sensors. Pulse count is incorporated to try and prevent false alarm activations. It will count a number of activations before going into alarm. For example, if a PIR is set at pulse count 3, it would have to see movement in three zones of the detector beam pattern before it would go into alarm

PYRO – A pyro or pyro element is the thermal sensor that is used in infra-red detectors (PIRs, Quads and Dualtechs)

Quad Detector – A quad element detector is a type of PIR where four infra-red sensors are built into the detector, increasing the accuracy of detection compared to a normal PIR

Removable PCB – On several units the Printed Circuit Board is removable. This is done to make installation of that product easier for the engineer

RFI – Radio Frequency Immunity. Radio waves are generated by the use of mobile phones, police or taxi radios. This type of interference can cause a multitude of problems to the electronics used in alarm products, mainly resulting in false alarms. Manufacturers endeavour, at all times, to design equipment to guard against this interference

Sealed Optics – This feature is available on some PIRs. There is a plastic moulding built into the front cover of the unit which, when matched up to the base unit, seals the pyro. This seal then prevents spiders, insects and other foreign bodies getting onto the pyro, resulting in an alarm condition

Surface Mount – Almost every electronic security product manufactured uses surface mount technology. This means that most of the electronic components are placed by machine, improving product reliability and production throughput. The surface mount machines used in the production process can place approximately 11,000-15,000 components an hour

Thermal Noise Environment Stability – This has been built into PIRs to filter out certain thermal interference caused by items such as mains supplies, lighting, etc. This type of interference can cause false alarm activations

White Light Filter – This term refers to the PIR's lens. The whiter the lens, the better its immunity to sunlight and strong light sources such as car headlights. This has been a major cause of false alarms, and the vast majority of PIRs nowadays come with a pure white lens

Technical Support and Service Department

Technical Support

If your engineers need that bit of extra technical information then help is at hand. Call our Technical Support teams on 0871 386 0820 or email technical@bewator.co.uk.

Please be aware that demand for Telephone Support can be variable and we do have busy periods. On such occasions, leave your return contact details so that we can call you back as soon as we are able.

Database Analysis

There are occasions when software database structures can be corrupted. At these times you should be restoring the databases from back-up data.

We understand that it will not always be possible to do this and so as an alternative to setting up the system from scratch, we offer a database analysis and repair service at an hourly rate.

Please be aware:-

Because of the nature of computer hardware and software it is not always possible to determine the reason for corruption.

It will not always be possible to recover all of the data, you will be kept informed as to how successful the recovery has been.

Field Service Engineers

Our field service engineers are available at short notice, to compliment your own service staff. At a competitive daily rate, you will be able to sell not just equipment, but also premium levels of Service and Backup without the expense of employing your own high level engineers. This offers a significant saving to you and piece of mind for your customers.

Engineers are available for commissioning and engineering visits, on a first come first served basis, so please give advance notice of any onsite visit request.

While our engineers are on site, take the opportunity to have your engineers trained on the actual system that they need to maintain, giving your service contracts added value. Our engineers will even train your customer in day to day use of the system, this will mean less service calls for you and more satisfied customers.

Site visits are at competitive daily rates and are available to all Bewator customers. For visits requiring over night stays the cost of this will be added to the daily rate.

To book one of our expert Field Service Engineers call 0871 386 0820

Service Department

For all Service Returns – Warranty Repairs, Non-Warranty Repairs, Refurbishing, Up-grades or Spare Parts please contact our Service department on 0871 386 0880 or email on service@bewator.co.uk and tell us – equipment type and serial number, our order acknowledgement or invoice number on which the equipment was original and details of the problem with the unit.

If a unit fails within 30 days of purchase we will offer an advanced replacement. Warranty failures outside this period will be repaired. For non-warranty units we have a published list of repair charges.

You will be issued with a Product Return (RMA) number. This number will be faxed to you on a form for inclusion with the goods. Please ensure that this number is clearly written on the outside of the packaging in a prominent place and that the tear off section of the fax is included with the shipment. The equipment can then be returned to us at your cost.

Warranty – Return to Base, Limited Repair Warranty

Bewator Branded Warranty Periods:

3 Years – Electro mechanical products

3 Years – Electronic products

2 Years – Eventys range

Siemens Branded Warranty Periods:

1 Year Minimum – Please contact Sales Support for full product listings

Accessories Range Warranty Periods:

1 Year

Conditions of Sale

For the Supply of Goods and Associated Services by Bewator Limited

1. GENERAL

- 1.1 The following are the terms and conditions (Conditions) of the contract (Contract) under which Bewator Limited (the Company) is to supply the goods and/or services specified in the Company's acknowledgement of order attached to these Conditions or otherwise agreed in writing by the parties (the Equipment) to the person placing that order (the Customer)
- 1.2 No other terms conditions or warranties shall apply unless agreed in writing by the Company. These Conditions shall prevail over any terms and conditions of the purchase of the Customer.
- 1.3 No variation to these Conditions shall be binding unless agreed in writing by the Company
- 1.4 The employees and agents of the Company are not authorised to make representations as to the description, quality of fitness for any particular purpose of any of the Equipment, unless confirmed in writing by the Company. The Customer acknowledges that it has not relied on and waives any claim for breach of any such representations which have not been so confirmed.

2. SALE

- 2.1 The Company shall sell and the Customer shall purchase the Equipment subject to these Conditions.
- 2.2 Orders accepted by the Company may only be cancelled or rescheduled with the Company's consent in writing

3. PRICE AND PAYMENT

- 3.1 The price of the Equipment shall be the Company's quoted price or where no price has been quoted, the price listed in the Company's Price List and Buyers Guide current at the date of acceptance of the Customer's order.
- 3.2 Any prices quoted which are not in the Price List and Buyers Guide or other published price list are valid for 30 days only unless otherwise stated or withdrawn. All orders remain subject to acceptance by the Company.
- 3.3 Payment of invoices shall unless otherwise agreed in writing be made in full without any deduction or set-off by the due date.
- 3.4 Failure to make due payment in respect of any deliveries or instalments under this or any other contract between the Customer and the Company shall entitle the Company to delay, suspend or cancel deliveries in whole or in part at its option.
- 3.5 Any extension of credit allowed to the Customer may be changed or withdrawn at anytime. Any credit accounts are payable 30 days from invoice date unless otherwise agreed by the Company in writing. Any dispute by the Customer regarding the validity of the invoice shall be notified to the Company in writing within 14 days of the invoice date.
- 3.6 If payment is not made in full by the due date stated on the invoice
- 3.6.1 The Company reserves the right to charge interest to the Customer at the rate of 7% above LIBOR on the unpaid balance (such interest to accrue on a day to day basis from the due date for payment until receipt by the Company of the full amount whether before or after any judgement) and
- 3.6.2 The Customer shall indemnify the Company against all costs and expenses (including any legal costs and expenses on a full indemnity basis) incurred or sustained by the Company in recovering sums due or in exercising its rights pursuant to Clause 6, in each case without prejudice to any other rights or remedies available to the Company
- 3.7 Payment shall be due whether or not property in the Equipment has passed by virtue of Clause 6 below and the Company shall (without prejudice to any other right or remedy) accordingly be entitled to sue for the same is due even if property in the Equipment has not passed.

4. LICENCES, TAXES AND OTHER CHARGES

- 4.1 Unless otherwise agreed in writing with the Company the Customer warrants and represents to the Company that every applicable licence (import or otherwise), foreign exchange control authorisation or any other authority that may be required in connection with the Equipment has been or will be duly obtained by and at the expense of the Customer.
- 4.2 Unless otherwise agreed in writing the prices do not include Value Added Tax (#VAT) or any other tax or levy on the supply or importation of the Equipment.

5. DELIVERY AND COMPLETION OF SERVICES

- 5.1 Delivery shall be ex-works Cwmbran UK unless specified otherwise in the order acknowledgement issued by the Company to the Customer for the Equipment.
- 5.2 Upon delivery the Customer shall sign the delivery note of the Company or its carrier to acknowledge receipt of the Equipment.
- 5.3 Any dates for delivery are approximate only. The Company's liability for any loss, damage, cost or expense caused by any delay or failure in delivery of the Equipment however caused, including without limitation the Company's negligence shall be limited to the price of that Equipment under the Contract. The Equipment may be delivered by the Company in advance of the quoted delivery date if agreed with the Customer.

- 5.4 Where the Equipment is ordered to be delivered instalments (call-off order) each delivery shall be paid for separately and failure by the Company to deliver any one or more of the instalments in accordance with these Conditions shall not entitle the Customer to treat the Contract for the whole of the Equipment as repudiated.
- 5.5 If the Customer fails or refuses to take delivery of the Equipment or fails to give the Company adequate delivery instructions by the time stated for delivery then, without prejudice to any other right or remedy available to the Company the Company may
- 5.5.1 Store the Equipment until actual delivery and charge the Customer the reasonable costs (including insurance) of storage and subsequent re-delivery or
- 5.5.2 Treat the Contract as repudiated and use the Equipment in fulfilment of other Customers orders.
- 5.6 Where the Equipment is to be collected by the Customer, the Company may treat the Contract as repudiated and re-sell the Equipment if the Customer fails to collect the Equipment within 7 days of notification by the Company that it is ready for despatch.
- 5.7 The Company may change the Customer for packaging, insurance, carriage and freight of the Equipment. The Company may pack the Equipment in whatever manner it considers reasonable. The Company shall be under no obligation to conform to any limits for weights or measurements of any consignment of Equipment.

6. TITLE AND RISK

- 6.1 Risk of loss or damage to the Equipment is delivered to the Customer. If the Equipment is carried at the cost of the Company, the Company will only bear the risk of loss or damage in transit if it receives written notification of such loss or damage within 3 days of delivery, or in the case of non-delivery, within 21 days of the date of despatch.
- 6.2 Notwithstanding the passing of risk, the Company retains the legal and equitable title in the sums due to the Company from the Customer under the Contract. Title to software supplied always remains with the Company.
- 6.3 Until title in the Equipment has passed to the Customer the Customer shall hold the Equipment in a fiduciary capacity for the Company, in particular the Customer shall:
- 6.3.1 Insure the Equipment against loss or damage with an insurance office of good reputation.
- 6.3.2 Store the Equipment safely and securely and separately or in some other way ensure that it is readily identifiable as the property of the Company.
- 6.3.3 Return the Equipment to the Company forthwith on demand.
- 6.4 For so long as the Customer continues to trade and is not insolvent or otherwise within the conditions of Clause 11, the customer shall have a licence to offer for sale and sell the Equipment in the ordinary course of business as principal for its own account and not as agent for the Company. The Company may terminate this licence at any time by notice in writing to the Customer. The licence will terminate automatically if the Customer falls within Clause 11.
- 6.5 The Company or any of its servants, agents or authorised representatives shall be entitled to any time without prior notice to enter on any premises where any Equipment is stored, or is believed by the Company to be stored, to retake possession of any Equipment and to sell or otherwise deal with or dispose it.
- 6.6 The provisions of this Clause 6 shall survive the termination of the Contract for whatever reason.

7. WARRANTIES

- 7.2 Subject to the conditions set out below the Company warrants that the Equipment will be free from defects in materials and workmanship for the relevant warranty period. Unless stated otherwise the warranty period begins on delivery to the Customer.
- 7.3 The warranty period for the Equipment is one year unless otherwise stated by the Company in writing at the time of supply. Any extended warranties shall be subject to the terms and conditions set out separately and pertaining to such specific equipment and warranty period only. All extended warranties apply to the first customer purchase from the Company and are not transferable.
- 7.4 The warranty above is conditional upon:
- 7.4.1 – the Customer giving written notice to the Company of the alleged defect in the Equipment, setting out full particulars of the defect within 14 days of the date on which the defect becomes apparent to the Customer;
- 7.4.2 – the Company and the Company's insurers being given a reasonable opportunity to investigate the defects including if requested by the Company an opportunity to inspect the Equipment at the Customer's premises; and
- 7.4.3 – if so requested by the Company, the Customer returning the Equipment to the Company carriage paid.
- 7.5 The Company shall be under no liability under the above warranty.
- 7.5.1 In respect of any defect in the Equipment arising from any drawing, design or specification supplied by the Customer.

Conditions of Sale

- 7.5.2 In respect if any defect arising from fair wear and tear, wilful damage, negligence of the Customer abnormal working conditions, failure to properly maintain and operate the Equipment in accordance with its specifications, failure to follow the Company's instructions or industry standards and practices, misuse or alteration or repair of the Equipment without the Company's approval or improper storage.
- 7.5.3 Where the Equipment is transported to the Customer at the Customer's risk and the defect occurred during transit.
- 7.5.4 In respect of part, materials or Equipment not manufactured by the Company in which case the Customer shall only be entitled to the benefit of any warranty or guarantee as it is given by the manufacturer to the Company.
- 7.6 The Company shall have no liability under this warranty other than under Clause 7.3. If the Company fails to comply with its obligations under Clause 7.3 its liability for such failure shall be limited to the price of the Equipment.
- 7.7 Subject to Clause 8, this express warranty is the Customer's sole remedy in respect of defects in the Equipment and is in lieu of all warranties, conditions or other items implied by statute or common law, custom, trade, usage, course of dealing or otherwise, all of which are excluded to fullest extent permitted by law.
- 7.8 Nothing in these Conditions shall affect the statutory rights of a Customer who is dealing with the Company as a consumer.

8. LIABILITY

8.1 Except in respect of:

- 8.1.1 – injury to or death of any person cause by the Company's negligence
- 8.1.2 – the Company's liability under the Consumer Protection Act 1987 for any injury to or death of any person or loss of or damage to the property intended for private use caused by a defect in the Equipment.
- 8.1.3 – breach on the part of the Company of any undertaking as to title implied by Section 12 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Services Act 1982, or
- 8.1.4 – insofar as any exclusion or limitation of the Company's liability under the Contract is otherwise prohibited, void or unenforceable by law. The Company shall not be liable for any loss or damage which arises out of or in connection with the supply of the Equipment or its use or resale by the Customer except as expressly provided in these Conditions. The Company shall not be liable for interference with or from other radio equipment or services due to the installation or use of the Equipment. If requested to investigate such interference the Company will charge for the service at its current rates.
- 8.1.5 – the Company shall not be liable for any consequential or indirect loss suffered by the Customer whether this arises from a breach of duty, in contract or in tort, including negligence, or in any other way including without limitation loss of business, goodwill or profit.
- 8.2 In the event that notwithstanding the provision of Clauses 7.6, 7.7 and 8.1 the Company is found liable for any loss or damage suffered by the Customer, that liability shall in no event exceed the amount of insurance cover the Company has in respect of the particular liability.

9. INTELLECTUAL PROPERTY/SOFTWARE

- 9.1 No intellectual property rights in or associated with the Equipment shall pass to the Customer as a result of the sale of the Equipment to the Customer
- 9.2 The Company endeavours not to offer for sale Equipment which infringes known and valid patents or other intellectual property rights but shall not be liable in any manner whatsoever to the Customer for any costs, damages or loss of profits arising from the use or sale of the Equipment which infringes or allegedly infringes any patent, registered design, copyright or other intellectual property rights of any third party.
- 9.3 Software embedded in the Equipment and stored in programmable read only memory is supplied by the way of irrevocable non-exclusive licence to the Customer to use such software in or in respect of the Equipment. The Customer shall not other than as expressly permitted by these Conditions, copy, reproduce, translate, adapt, de-compile, modify, reverse engineer or disassemble any such software. The Customer acknowledges that the copyright and other intellectual property rights in such software are the property of and shall remain with the Company.
- 9.4 Software supplied by the Company which is not embedded in the Equipment is licensed on the basis of a Software Licence Agreement normally provided with each copy of that software or its handbook and the Customer agrees to use such software strictly in accordance with the terms of its licence.
- 9.5 The Company also reserves the copyright and all other intellectual property in all its prototypes, software, drawings, sketches, plans, prints and other documentation or data. No reproduction thereof shall be made without permission of the Company and the Customer shall not transfer or part with possession, to a third party, of any of the above without the written permission of the Company.

10. EXPORT CONDITIONS

- 10.1 In these Conditions incoterms means the international rules for the interpretation of trade Conditions of the International Chamber of Commerce as in force at the date when the contract between the Company and the Customer was made. These conditions shall prevail over incoterms in the event of inconsistency between them.
- 10.2 Where the Equipment is supplied for export from the United Kingdom, the provision of this Clause 10 shall apply notwithstanding any other provisions of these Conditions, subject to any special Conditions agreed in writing between the Company and the Customer.
- 10.3 The Customer shall pay any bank or other charges on negotiable instruments in respect of export payments.
- 10.4
- 10.5 Unless otherwise specified on the order acknowledgement issued by the Company to the Customer for the Equipment, incoterms ex works shall apply
- 10.6 Where delivery is made f.o.b. the Company shall be under no obligation to give notice under Section 32(3) of the Sale of Goods Act 1979.
- 10.7 Where testing and inspection of the Equipment is required before shipment the Customer shall be responsible for arranging this at the Company's premises. The Company shall have no liability for any defect in the Equipment in respect of any damage during transit
- 10.8 Unless otherwise agreed in writing between the Company and the Customer, payment shall be made by irrevocable letter of credit opened by the Customer in favour of the Company and confirmed by a bank in the UK approved by the Company.

11. INSOLVENCY OF CUSTOMER

- 11.1 If the Customer is unable to pay its debts, ceases to carry on business or becomes bankrupt or insolvent or any steps are taken by any person with a view to its winding up or dissolution or it enters into any composition or arrangement for the benefit of its creditors, or any trustee, liquidator, receiver or similar officer is appointed to it over its assets, the Company shall be entitled to cancel the Contract or suspend any further deliveries under the Contract without any liability to the Company and if the Equipment has been delivered but not paid for the price shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

12. SPECIFICATIONS

- 12.1 The Company may alter specifications, dimensions and other product details as stated by the Company at any time without notice.
- 12.2 If the Equipment is to be manufactured or any process is to be applied to the Equipment by the Company in accordance with a specification submitted by the Customer, the Customer shall indemnify the Company against all loss, damages, Costs and expenses awarded, against or incurred by the Company in connection with or paid or agreed to be paid by the Company in settlement of any claim or infringement of any patent, copyright, design, trademark or other intellectual property right of any other person which results from the Company's use of Customer's specification.

13. MISCELLANEOUS

- 13.1 The laws of England shall govern any controversy or claim of whatever nature arising out of or relating to these conditions or breach thereof.
- 13.2 All disputes arising in connection with these Conditions or the Contract shall be subject to the non-exclusive jurisdiction of the English Courts.
- 13.3 The Company is a member of the group of companies whose holding company is Bewator AB and accordingly the Company may perform any of its obligations or exercise any of its rights under these Conditions by itself or through any other member of its group, provided that any act or omission of any such other member shall be deemed to be the act or omission of the Company.
- 13.4 The company shall not be liable in any circumstances for any failure to perform any obligations where such failure is due to the industrial dispute; acts or delays of suppliers; fire; flood; act of god; armed conflict; any rule or action of any public authority, transportation delays, refusal or delay in granting any licence or permit or any cause beyond the Company's reasonable control.
- 13.5 Any notice required or permitted to be given by either party to the other under these conditions shall be in writing addressed to the other party at the address shown on the acceptance of order or quotation of the Company or such other address as may have been notified pursuant to this Clause to the party giving the notice.
- 13.6 The failure of either party to exercise or enforce any rights under this Agreement shall not amount to a waiver of those rights
- 13.7 The illegality or invalidity or any part of these Conditions shall not effect the legality or validity of the remainder of them.



A global company providing local service.

Bewator (a subsidiary of Siemens Building Technologies Group since November 2005) is Europe's leading supplier of innovative security products and systems, encompassing Access Control, CCTV, Intruder and Integrated Security Management Systems.

Siemens Building Technologies (SBT) is a division of Siemens AG and combines building security and building automation solutions within a single company, SBT has fire and security operations world-wide and Siemens is one of the world's largest electrical engineering and electronics companies, with a global workforce of more than 461,000 employees.

Bewator Limited serves the UK and Republic of Ireland for pre-qualification, supply, training and after sales support for all security products bearing the Bewator and Siemens brands, Bewator Limited is an active member of the British Security Industry Association and is an ISO9001 approved company. All Bewator and Siemens products meet international standards including FCC and CE.

 **BEWATOR**
A Siemens Business

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