Video Control Product Catalogue













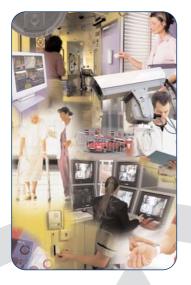
Introduction

27 years of Innovative Video Control Solutions Drawing from the internationally recognised Molynx and Videmech technologies, Bewator offers one of the most comprehensive ranges of video control systems, pan & tilt heads, housings, dome cameras 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 Video Control products are designed with your requirements in mind, and will help you get the best out of your Security System.

With innovative solutions, high quality products, and a strong commitment to customer service, Bewator is the partner of choice of Security professionals around the world.





Bewator is a leading international security group that develops and markets products and systems within the area of Access Security.

The group focuses on 3 strategic business areas: Access Control, Video Control and Parking Control. Development and manufacturing expertise in these areas puts Bewator Group at the cutting edge of modern security practice, by combining diverse technologies and systems to provide fully integrated security solutions.

Bewator's UK division is an active member of the British Security Industry Association and is ISO 9001 approved. All our products meet international standards, including FCC, R&TTE and CE and ATEX.

Bewator
Leading the way
to modern
security systems

Bewator's major shareholder is EQT, founded by Investor AB, a holding company in the Wallenberg Group, Investor AB also has controlling interests in other leading Swedish international companies such as SAAB, Electrolux, SKF, Atlas Copco, Ericsson, ABB and AstraZeneca.

With Bewator solutions you can relax, safe in the knowledge that a 27-year pedigree of quality and excellence will provide you with practical, cost effective security solutions, wherever you are in the world.



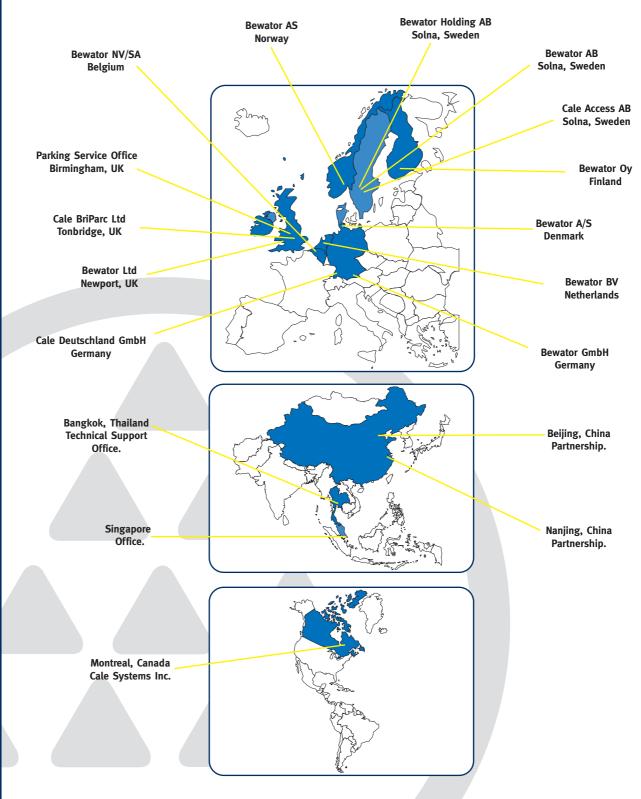
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Bewator, your partner around the world

Headquartered in Solna, Sweden, Bewator has over 350 employees servicing the security markets around the world, generating over 46 Million pounds turnover.

With subsidiaries in Sweden, Norway, Denmark, Finland, Germany, U.K, Belgium, The Netherlands, Canada, China, Thailand and Singapore, you can be sure to get professional advice and support wherever you are in the world.

Bewator Group is represented in another 40 countries by a strong network of local partners. The company works closely with carefully selected systems integrators and installers in all these countries.





Bewator, trusted security solutions

Bewator, trusted security solutions



Government

- Gwent Police HO
- HM Customs
- MOD
- RAF
- HM Prisons
- European Community Bldg (Geneva)
- SHAR Rocket Research Centre (India)
- French Nuclear Plants
- Inland Revenue
- Paris Police HQ

Commercial

- Beijing Telecom
- Tate Gallery
- British Gas
- Rover
- BICC
- ICI
- Aintree Race Course
- Kuwait Conference Centre
- Construction Bank of China
- Royal Bank Of India

Transport

- London Underground Jubilee Line
- Periphérique (Paris)
- Bangkok Traffic Monitoring
- Beijing West Railway Station
- Tehran Traffic Control (Iran)
- Channel Tunnel Freight Terminal
- Singapore NEL
- Hong Kong MTRC

Oil

- Conoco
- Shell
- Petrobraz
- BP

Leisure

- Cardiff Millennium Stadium
- Nantes Football Stadium
- St Etienne Football Stadium
- Lens Football Stadium
- Silverstone Race Circuit
- Bolton Reebok Stadium
- Liverpool Anfield Stadium
- Rockingham Race Circuit.

Airports

- Cardiff
- Glasgow
- Jakarta Indonesia
- Gatwick
- Heathrow
- Eastleigh
- Luxembourg
- Birmingham
- Isle of Man

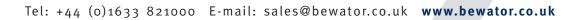
Retail

- Tesco
- Sainsburys
- Asda
- Debenhams
- Marks & Spencer
- Safeway
- Alliance and Leicester

Town and City Centres

- Aberdeen
- Airdrie
- Auckland (NZ)
- Bedford
- Blackpool
- Boston
- Bridgewater
- Camberley
- Cardiff Bay
- Coalville
- Colchester
- Crawley
- Cwmbrian
- Dover
- Glasgow
- Grangemouth
- Inverness
- Leicester
- London
- Newbury
- Newport
- North Lanarkshire
- Plymouth
- Portsmouth
- Reading
- Sheffield
- Skegness
- Stratford-on-Trent
- Warrington







Bewator, your partner all the way

Bewator: 27 years of leading edge technology

At Bewator, we believe in providing high performance, practical solutions.

This is why we focus on 4 key areas when designing our security solutions:

- Innovative hybrid technologies: benefit from our Know-how in both analogue and digital video technologies.
- **Pro-active systems approach:** to minimise systems redundancy
- Integration capability: Most of our Video Control solutions support 3rd party equipment, and have built-in interfaces to the most commonly used protocols. You can also integrate some of our Bewator Access and Video Control solutions together, just contact us for more details.
- High Quality: delivery precision, product/service reliability, and customer support



Our Customer Support Centre is organised in 3 dedicated teams: UK Access, UK Video and Export Video. Each team has a direct telephone number, so you can be sure you'll get quick and efficient support every time!

Talk to the right person first time, every time, with our dedicated contact numbers!

UK Access +44 (0)1633 820610 **UK Video** +44 (0)1633 820620 Export Video +44 (0)1633 820640

Technical Support

Selling a product is only the start of our cooperation with our partners. With a full time team of 4 Technical support engineers, we make sure you get the best out of Bewator solutions.

Should you have a problem, help is just a phone call away, +44 (0)1633 821600

Technical Training

Technology evolves fast, and we know how important it is for security professionals to keep up with all the changes. With our training courses, you'll find something to suit all your needs.

- Eventys DVMS-Foundation course
- Eventys DVMS-Advanced course
- Networking-basic skills
- V3i overview, VII+
- Bewator CCTV Product range Training ("PRT")
- Visilynx Operator Training ("V-User")

And if you don't, we'll be happy to design a course, which meets your specific requirements.

For full details on these training courses and all available end-user training courses or to book, please call o1633 821600 or go to www.bewator.co.uk/training.htm



Tel: +44 (0)1633 821000 E-mail: sales@bewator.co.uk www.bewator.co.uk

Products and Applications

All our Video Control solutions have built-in integration capability.

To find out more about how you can build high performance systems around Bewator Video Control Solutions, 3rd party equipment, and even Access Control solutions, please contact your local Bewator representative.



Receivers from Bewator



Setting the standard for advanced Telemetry Control



Town and City Centres



Retail & Commercial Buildings



Airports and Mass Transit



Public places & Buildings / Leisure Areas



Chemical and Petrochemical



High Security Buildings





Asset Surveillance



Crime Control



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.



Public Security

The Challenges

CCTV systems vary widely in size and complexity, but one fact remains: the increasing demand for pro-active, event-driven systems calls for increasingly fast response time from operators. The issue here is to have systems that enable operators to quickly identify the origin of the alarm (e.g. the area or camera), and be able to take control of the camera to respond to the event.

At the same time, as CCTV systems have found applications in public areas, where businesses or private homes are located, the need for privacy zones has increased.

Conventional Solutions

Conventional solutions often fail to enable operators to target precisely the views triggered by alarm activation. A slow response time means that by the time the operator finds the view, which triggered the alarm, it is too late to efficiently react or stop the event, hence hindering the benefit of having an event-driven system. Setting privacy zones is hard with conventional receivers, and it often requires engineers to be sent on extensive training courses.

Bewator Solutions

Bewator Receivers were designed with the installer and end user in mind. They give the flexibility required to enable event-driven systems to operate to their full level of performance: precise controls, tracking capability, presets positioning are just a few of the features you will find within our range of receivers. The latest addition to the range, RX3, offers the added benefit of easy-to-program privacy zone options. This is particularly useful in town centres to respect the privacy of inhabitants, but also in retail shops: Where credit and debit cards with PINs are used, there is a high risk of the PIN entry being overseen by cameras. Privacy zones eliminate this risk, without having to re-position cameras or separate any recording from till data.

Benefits

- Easy-to-program privacy zones (RX3)
- Complete range
- Upgradeable
- Precise Camera Control
- Over the coax/twisted pair RS485 options included as standard
- Easy set up
- High reliability

RX3: Helping keeping Reading Town Centre Safe

RX3 was specially designed to meet the challenges of today's CCTV systems, and is the solution chosen by Photoscan to support the Reading town centre security system extension.

Fully compatible with commonly used video control systems, RX3 provides the cost efficiency, flexibility and reliability necessary to successfully support the 18 cameras added to Reading's surveillance systems.



Receivers from Bewator

Setting the standard for advanced Telemetry Control

RX3:

Enhanced Multi-protocol receiver with Privacy Functions

Approved by Petards as a replacement for the 150 Receiver, RX3 now includes Universal Protocol.

It supports bi-directional telemetry, allowing remote alarms to be sent back to the controller, either over the coax or using a twisted pair cable.

The receiver will automatically optimise its drive characteristics to suit the P&T head it is driving, removing the necessity to order various versions of software to control different Pan & Tilt heads.

With RX3, you have found your cost-effective solution:

- 99 Presets
- Easy to install
- Includes 62 dynamic electronic privacy zones
- Allows remote programming, using on-screen menus
- Gives operators a high degree of positional controllability
- · Offers high reliability
- Can also be controlled from equipment using Ernitec ERNA and Pelco D and P and Videmech Universal telemetry protocols

Precision

Variable

Speed

Can Fit

Camera

- Video HF Lift control
- Video loss detection 3 or 4 wire lenses Diagnostics NTSC Selectable

Industry Standard Receivers

RX217D - 17 function receiver with variable speed for DC preset Pan & Tilt heads

 99 presets for precise targeting of views triggered by alarm activation

 Variable speed allows operator precise control with rapid response and tracking capability

 Maximum speed is proportional to the degree of zoom automatically improving system usability

- Receiver automatically finds pan, tilt, zoom, focus end stops
- Compatible with continuous rotation Pan & Tilt heads with 2 wiper pan position feedback giving the shortest route to the scene. This improves response times to alarm events and has no pan preset 'dead zone'
- Ideal for use in town centre surveillance, stadia, prisons, etc.
- 'C' or 'D' type telemetry (see below)

RX217 - 17 function receiver for fixed speed AC preset Pan & Tilt heads

 99 presets for precise targeting of views triggered by alarm activation

 Receiver automatically finds pan, tilt, zoom and focus end stops

 Compatible with all current Molynx telemetry controllers

• 'C' or 'D' type telemetry (see below)

• Ideal for industrial & commercial security applications



Variable speed for DC preset Pan

& Tilt heads with privacy zones

RX210 - 10 function receiver for fixed speed AC Pan & Tilt heads

- Board only option for mounting in HSo1 'Super Connoisseur' camera housings
- 'C' or 'D' type telemetry
- All functions can be activated at the receiver for test purposes
- Typically used in petrol stations, retail and light commercial applications
- Pan Tilt, Zoom, Focus and two installer configurable functions e.g. wash & wipe or lamps / auxiliary
- Auto-Iris lens required

All receivers are available as PCB only option

Telemetry Interface Options 'C' & 'D' type

Two options are available for the telemetry connection to the controller:

'C' Type (coaxial)

Video and telemetry signals travel down the same coaxial cable in different directions, at different frequencies. It can operate at distances of up to 500m, depending on the cable specification

• 'D' Type (twisted pair)

Telemetry signals are transmitted over a twisted pair cable and can operate up to a distance of 3km, with suitably rated cable. 'D' type telemetry interfaces conform to RS485 and are compatible with a wide range of fibre optic, microwave and other transmission equipment.

All Bewator receivers are now supplied with both as standard.

For more information on the Receivers range, see the **Receivers Selection Guide** p.26 Product technical data sheets are available from the Product Section on our Website

BEWATOR

Matrix systems from Bewator Modular and distributed systems



Town and City Centres



Retail & Commercial Buildings



Airports and Mass



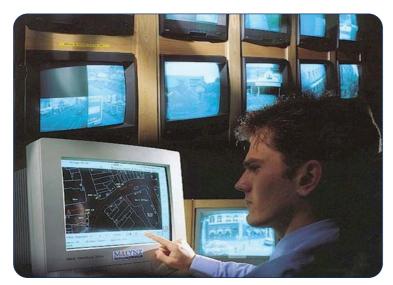
Public places & Buildings / Leisure Areas



Chemical and Petrochemical



High Security Buildings





Asset Surveillance



Crime



Public

Go distributed

Conventional matrices quickly reach their limits when systems expand or increase in complexity.

On the other hand, distributed systems are flexible, easier to expand and upgrade, and offer the added advantage of not only making multi-site planning simpler, but also ensuring that if one area fails, the rest of the system continues to serve its purpose.

The Challenge

The design of security systems is a challenging match-making exercise, because there are so many requirements to take into account: the number of sites to be secured, the legacy systems and equipment in place, the staff's skills, future requirements, potential systems upgrade or expansions, technological advances, etc...

Conventional Solutions

This would be quite acceptable if you only had to do it once and for all. But systems evolve, and with traditional designs, you take the risk of reaching the breaking point very quickly when their size and complexity need to increase.

As new sites are added, or new equipment is installed, systems relying on a single matrix - no matter how powerful - face a tough challenge, technologically and economically. Firstly, you need the new equipment to talk to the old one. Secondly, you need to cater for all these added video messages.

This usually means more cable, more fibre equipment, more installation time... in other words: higher costs, and a big headache when it all starts to go wrong.

Bewator Solutions

Based on the VisilynxTM 3 matrix concept, which was developed for the Singapore's highly sophisticated MRT (Mass Rapid Transit) system, V3i is the ideal matrix with which to apply the 'distributed system' philosophy. It is unique, and is equally at home when used alone as a local system, or in multiples, as part of a large distributed system.

Each Integrated System Unit (ISU) is feature-rich, and can be joined together in a variety of combinations, both locally and via a network of subsystems, where images are sent down trunk cables to be processed by one or more similar ISU's forming the control centre.

This unique distributed matrix concept also offers substantial savings on cabling and installation time.

Benefits

- Easy to expand and upgrade
- Straightforward system integration
- Reduced cable and installation costs
- Simplifies large / multi-site systems operation
- Increases systems' reliability and efficiency

Visilynx 3: Mass observation on Singapore MRT

Safety, as much as security, was the driving force behind the specification of the North East Line (NEL), an extension to the already highly sophisticated Singapore MRT system.

The challenge was to link 500 cameras in 16 stations and another 350 onboard the 25 trains of the NEL to an operations and control centre as well as a stand-alone depot. Visilynx 3 was created to tackle this challenge, and the resulting system delivers high picture quality despite on-board cameras moving through complex and highly-serviced underground tunnels. The central control system is designed to operate its own network control of each station, and can also be controlled by higher level systems that integrate other technologies, such as passenger information display and public address.

As the trains move between stations, the signal is received and distributed via the nearest station-based CCTV equipment to the operational and control centre (OCC) and local station equipment. At the OCC, monitors allow live carriage images to be viewed in conjunction with platform views and pictures from the numerous other cameras showing ticket booths, etc.



Matrix systems from Bewator Modular and distributed systems

V3i:

The Single Box Solution

Our V3i matrix proves to be very popular amongst specifiers and installers alike, and it's easy to understand why: One of the most comprehensive matrix systems on the market, it brings you exceptional video quality and is packed with user-friendly features. It genuinely can be used anywhere in the world, and has built-in interfaces to third-party equipment. Integrating multi-party equipment and securing large or multiple systems has just never been easier!

Dome protocols: Dennard - JVC - Ultrak - Vista Powerdome Recording equipment protocols: DM Digital Sprite

Sony - Vista Columbus DVR's - Panasonic - Sony VCR's - Panasonic - Montage Video Multiplexers.

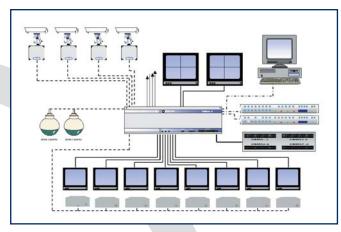


Each V3i unit features:

- 32 loop-through camera or dome inputs (PAL or NTSC)
- C and D Telemetry control inputs/outputs (bi-directional with RX3)
- Video Loss detection on all inputs + covered camera detection
- 8 monitor outputs
- On-screen configurable text
- 128 alarm inputs (NC or NO)
- 4 programmable relay outputs
- 6 software configurable serial ports
- Field replaceable PSU
- 2 internal expansion slots for optional quad cards
- Can create a 64x16 matrix by linking 2 V3i units

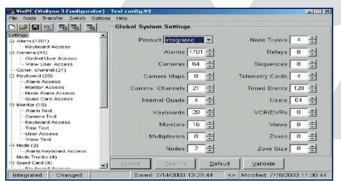
For systems requirements <32x8 or > 256 x 16, please contact Bewator, or just contact us for advice on cost-effective systems design solutions!

Straightforward system integration...



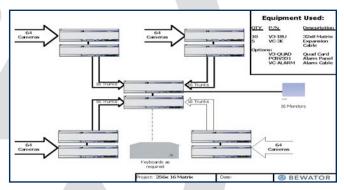
Fully populated ISU

Easy Set up via VisiPC



Thanks to its user-friendly on-screen windows facility, V3i is easy to set up and configure. This also allows the configuration to be downloaded onto a PC and stored. This makes system upgrades or configuration changes simple to conduct.

Cost-effective large or multi-site systems



Save thousands on cabling with distributed systems. V3i can be used as a building block for systems with over 256 cameras, and the above is an example of how simple it is to design larger systems with V3i.

Digital Video Management Systems BEWATOR



Go straight to the action...







Retail & Commercial Buildings



Airports and Mass



Public places & Buildings / Leisure Areas



Chemical and Petrochemical



High Security Buildings







Powerful system connectivity and remote monitoring



Asset



Control



Security

A different kind of intelligence

Eventys range of DVMS offers more than Digital video recording. A real asset to any security system, each model delivers:

- Advanced Audio Recording
- Unlimited Video Storage
- Simultaneous IP & Analogue Inputs
- Technology Breakthrough in Motion **Detection**
- Remote Data Mirroring and Storage
- Cutting Edge Search Facilities
- Unlimited Advanced Remote **Monitoring**
- Powerful Recording Features
- Easy Setup and Operation

The Challenge

The security industry is quickly moving towards digital technologies. As often with fast-paced technologies, Digital Video Recorders evolve very quickly, posing the threat of system redundancy. Designing a DVMS which can accommodate today's systems, whilst leaving room for future expansion and technological upgrade is the first hurdle. Furthermore, the technology is still new within the security industry which means that more often than not, implementing IP based systems requires specialist skills which general security installers or integrators do not necessarily have.

Conventional Solutions

Most DVRs or DVMS on the market cannot support IP and analogue cameras on the same system. As a consequence, system expansions or upgrades are rendered more complex and expensive by the need for add-on equipment to make existing and new equipment work together. More often than not, these also require involving specialist IT consultants to oversee the network side of systems. This again adds to the costs of implementing the system, and makes maintenance more difficult.

Bewator Solutions

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

Benefits

- Simpler Approach to **Managing Video**
- Secure & Cost Effective Data Storage
- IP Monitoring of Remote Sites Using **Existing Cabling**
- Ideal for Distributed Systems
- Powerful Search Tools for Quick **Access to Incidents**
- Increased System Efficiency
- Long Term Cost Savings
- Reduced Downtime

Eventys: Seamless, Powerful, Reliable.

The high specification of the Eventys system means that each camera can be set individually to record in different modes at different times of the day or days of the week. This allows for added flexibility and can focus security where activity levels vary between night and day, and weekday or weekends. Eventys can even be programmed to automatically change recording modes for holidays. This makes it ideally suited for use in a wide range of situations including retail, corporate surveillance, museums, banks, education buildings and logistics centres.

Its flexibility also makes it a quick and efficient way for control rooms that are dealing with a large number of cameras - such as those in airports, casinos and sports grounds - to identify and investigate incidents.



BEWATOR Digital Video Management Systems Go straight to the action...

EVENTYS

- 4, 8 or 16 video channels
- 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 CD 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

Graphical search



- Date/Time
- Motion
- Event/Alarm

Networking with Eventys

Eventys offers very powerful system connectivity and remote monitoring capabilities. It offers a remarkable user accessibility platform across LAN, WAN or internet channels. Viewers can access real time or recorded data from any combination of accessible (password protected) camera or DVMS. Eventys Controller (remote client software) allows authorised users to remotely configure the entire system, make settings changes and view live or recorded images from virtually anywhere in the world.

- Powerful network integration
- Unlimited network storage/NAT
- Powerful remote monitoring over network (including configuration)
- Supports network and analogue cameras (simultaneously)
- Multiple interfaces with 10/100 Base T Ethernet/ADSL/ISDN etc.



For systems examples please see page 23.

Motion search



Activity in a specific area can easily be identified by painting the target area. The system will search for the first instance of movement within an area. The system can also synchronise all cameras to the time of the incident to see where the target had been prior to and after the recorded movement.

Plug & Plav

3 recording settings and 4 scheduling options give you the freedom to program each camera individually via the on-screen menus. To make it even simpler, an easy setup CD is supplied with each unit providing a set of pre-saved configurations to choose from.



Advanced Audio Recording

As fully programmable as video recording, audio recording can be set on schedules, motion and audio detection, etc. Audio channels can be stereo linked, synchronised with video, and used to generate alarms.

- Audio options for 2 or more channels
- Graphical audio and video management tools
- Stereo linkable individual channel programming and scheduling
- Audio channels can be coupled to any video channel
- Hardware independent
- Full duplex audio
- Audio alarm management and advanced search
- Audio volume level search

Composite output for VCR or to feed into a matrix

Not everyone can process digital evidence, so Eventys has a Composite Video Output mimicking the VGA output. This allows footage captured to be copied onto VHS tapes easily.



BEWATOR

Domes from Bewator

Style and performance made one



Town and City Centres



Retail & Commercial Buildings



Airports and Mass Transit



Public places & Buildings / Leisure Areas



Chemical and Petrochemical



High Security Buildings





Asset Surveillance





Public Security

Enhance your security system in style with Bewator Minidomes:

- Superior optical quality
- High positional accuracy
- Long lasting performance (even in continuous mode)
- Perfect for interior and outdoor applications
- Privacy zone masking and day/night switching features (external versions)
- Superior weather protection

The Challenge

Surveillance domes originate from the need for more "stylish" covert video surveillance, particularly in areas where aesthetic considerations are important, such as town centres, designer offices, shops, or even historical buildings. End-users can however be faced with a choice of style over performance: camera modules and lenses inside the domes need to be smaller, reducing the zoom range, and smoked spheres make surveillance under low light conditions more difficult by reducing the image quality. Ruggedness and durability can also be an issue, especially when cameras are used in continuous mode.

Conventional Solutions

Most domes provide some kind of answer to one or the other. It is rare however to find a dome which has the answer to all issues.

Low light conditions are still one of the biggest issues as far as domes are concerned, whilst resilience to harsh operational conditions continues in most cases to cause security systems to fail.

Bewator Solutions

Bewator domes offer a good compromise between style and performance. With an 8" diameter, they are small enough to blend in stylishly with their environment (whether on a pole, wall-mount or ceiling mounted), whilst being big enough to allow for an increased zoom range of up to 18:1, integral telemetry receiver, and day/night automatic switching option.

Being multi-protocol allows them to be added to other control systems eg: DM Sprite, or systems using Pelco, Ernitec or DM/VCL RS485 protocols. Privacy zone masking options make them ideal for applications where a visible deterrent is needed, whilst privacy is an issue: used in retail shops as a till surveillance tool, the privacy zone masking allows customers to key in their PIN codes without being captured on camera.

Benefits

- Suits a Wide Range of Applications
- Easy to Integrate
- Low Installation and Commissioning Costs
- Improved Operator's Camera Control
- Superior Image Quality for Evidential Recording

Bewator Minidomes help secure Waltham Point

Waltham point is one of the three 24-hour, 364 days a year depots serving Sainsbury's stores in London and the South East. The challenge was to design and implement a system flexible enough to cover 700,000 square feet of warehouse on more than 40 acres, including 180 loading bays. The system features 102 cameras, most of which are Bewator domes.

Why?

Because they feature privacy zone masking for external cameras and the telemetry function offers full proportional speed at all times, regardless of the zoom position. This gives operators maximum control over the dome. Some of the 39 external day/night Bewator domes had to be positioned within sight of houses, but thanks to their privacy zone masking functionality, the residents' privacy is protected. 49 internal colour Bewator domes were installed within the warehouse.

Flexibility is key to the installation, and allows Sainsbury's own security staff to have optimum control over the day-to-day monitoring of the cameras. All the domes can be controlled from any of the control points, thus ensuring the system can be readily configured to suit changing requirements.



Domes from BewatorStyle and performance made one



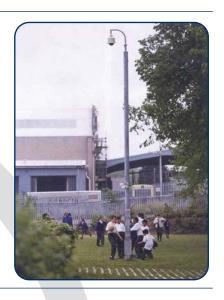


Indoor Dome Camera Assembly with Integral Multi-protocol Telemetry Receiver.

Available as wall mount, pendant mount or recessed ceiling mount, this 8" dome is ideal for indoor surveillance. Its 180 deg/sec Pan and 50 deg/sec Tilt, combined with the integral telemetry receiver (coax and twisted pair) ensure full proportional speed at all time. Its high resolution camera (Sony EXview 0.05 lux and 18x optical zoom, 12x digital zoom), with fully programmable tour sequence, dwell and speed, enables evidence to be captured at all times.

Outdoor IP66 Dome Camera Assembly with Dynamic Privacy Zones Masking

Complete with rainshield, fan and demister to ensure a clear picture at all times, this 8" dome is ideal for outdoor surveillance, especially when privacy can be an issue. Its 180 deg/sec Pan and 50 deg/sec Tilt, combined with the integral multi-protocol telemetry receiver (coax and twisted pair) ensure full proportional speed at all times. Its high resolution camera Sony EXview (automatic/manual day/night switching, 0.05/0.01 lux and manual 18x optical zoom, 12X digital), with fully programmable preset tour facility, enables evidence to be captured day and night, for ultimate security.



3rd Party Control

Bewator domes can be controlled via the following protocols:

Ernitec ERNA Pelco D + Photon (contact tech support)
DM Sprite VCL Pelco P

- NTSC Selectable
- •110V versions available
- •Wall-, ceiling-, pole-mount options

All domes include a PSU24-2 power supply, and a 3 year extended warranty*.

The outdoor versions also include pre-wired power, telemetry and video cables *conditions apply

Pan & Tilt Heads from Bewator



All you'll ever need from a Pan & Tilt!



Town and City Centres



Retail & Commercial Buildings



Airports and Mass Transit



Public places & Buildings / Leisure Areas



Chemical and Petrochemical



High Security Buildings









Asset Surveillance



Crime Control



Public Security

Performance goes a long way

The Bewator range of Pan & Tilt heads suits every type of surveillance application. With proven reliability and performance, there is a model to fit even the most demanding security requirements without compromising usability, longevity, nor serviceability.

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

The Challenge

Pan & Tilt heads are expected to move cameras to their desired position in all kinds of weather, irrespective of temperature or wind speed.

The key measures of a Pan & Tilt performance lie in good weather resistance (IP66 min), low audible noise, load ability and low backlash.

Domes have become more and more popular, but the reality is, Pan & Tilts remain the best solution for certain types of applications, especially outdoor surveillance.

Domes however have set a trend with regard to what is considered good value for money, and it is difficult to find Pan & Tilts which offer top performance at a competitive price.

Bewator Solutions

At Bewator, we strongly believe that Pan & Tilt heads still have an important role to play in CCTV. This is why we continuously improve the design of our existing range, and continue to offer low cost solutions which are easy to install and run.

With 2 new additions to the range, P16 and P25, Bewator now offers the most comprehensive range of Pan&Tilt heads: top performance, with the full functionality you'd expect from high quality CCTV equipment, at an unbeatable price.

Benefits

- Suits a Wide Range of Applications
- Easy to Install
- Proven Reliability and Endurance
- Flexibility
- Low Running Costs

Guarding the Pyramids

To protect the 13km outer perimeter of the Pyramids in Egypt from vandalism, a state of the art security system was installed that includes 50 moving cameras fitted with Bewator Pan & Tilts and housings, and 150 fixed cameras.

Most of the Bewator Housings are fitted with fan cooling kits for the extreme climate of the desert. At the heart of the system is a Visilynx Matrix which consists of 256 inputs and 48 monitor outputs giving effective coverage of the area.

The whole system can be operated remotely via 5 PC workstations, and interacts with a high performance perimeter alarm system and a digital video recording system.

Conventional solutions

Demands for lower cost Pan & Tilt heads have forced many manufacturers to cut costs by downgrading the specifications of Pan & Tilts, or to stop any development to improve the designs.

As a result, performance has been reduced, and installation time and running costs have increased.



Pan & Tilt Heads from Bewator All you'll ever need from a Pan & Tilt!

P16 Medium Duty Pan & Tilt with pre-wired leads

All P16 units are weatherproofed to IP67, supplied with 2m long pre-wired leads, and have a 5 year extended warranty (see terms and conditions).

Available with or without presets, the P16 range gives you the flexibility to choose a Pan & Tilt which will respond accurately to your systems requirements. Preset versions are fitted with heavy duty potentiometers, ensuring long lasting performance and positional accuracy.

AC and DC versions are available









P25 Medium-heavy Duty Pan & Tilt with pre-wired leads and heater.

The P25 range is especially suited for heavier loads and all units are supplied with a sidemount platform as standard.

All P25 units are weatherproofed to IP67, supplied with 2m long prewired leads and fitted with heaters. They are covered by a 5 year extended warranty (see terms & conditions).

P25 units have presets as standard and are fitted with heavy duty potentiometers, but can be used even if presets are not required. A watertight cap is supplied with all AC units to seal the connections for when presets are not required.

Like the P16 range, P25 units give you the flexibility to choose a Pan & Tilt which will respond accurately to your system requirements.

AC and DC versions are available

25Kg Load

Specialist Pan & Tilt heads



P66 Light Duty

3kg load rating. Top load configuration. Available with or without presets



P₅₅ Medium Duty

15kg load rating. Top load configuration. Supplied with presets as standard.

Integral Telemetry receiver option available



P60 Heavy Duty

50kg load rating. Sidemount configuration. Presets and heater as standard. DC only Available as top load configuration (40kg rated-load compensator required for loads over 25kg)

BEWATOR

Camera Housings from Bewator

Compact or Super...the Connoisseur's choice!



Town and City Centres



Retail & Commercial Buildings



Airports and Mass Transit



Public places & Buildings / Leisure Areas



Chemical and Petrochemical



High Security Buildings





Asset Surveillance



Crime Control

For flexible camera housings, look no further.

The Bewator range of housings suits virtually all surveillance applications. Combining tough extrusion and castings, Bewator housings are durable and easy to install, and facilitate the camera/lens ongoing servicing.

Available in 3 standard sizes, the range can accommodate most common lens/camera combinations.



Public Security

The Challenge

Ensuring the security of wide perimeters or areas (like city centres, stadiums, or even motorways) requires more powerful lenses and cameras than for indoor applications.

Finding a housing which will fit the size of the camera and the lens is not a given.

In addition, it is important that the camera and lens are well protected against the weather, yet easy to service should anything go wrong.

Conventional Solutions

Conventional housing solutions can be disappointing: finding an affordable housing usually either means compromising on one or more points, or accepting the fact that these necessary options like wipers and washer units usually come at a price.

The result? What started as a good price housing ends up as a fully equipped housing which is actually quite expensive.

True cable managed housings are also rare, and most of those on the market don't offer a cable management system which makes the housings easy to install and service, adding to running costs.

Bewator Solutions

At Bewator, we strongly believe that good housings help extend the systems life cycle. This is why we continuously improve the design of our existing range, to keep on offering low cost, easy to install and to run solutions.

Our housings can accommodate most common camera/lens combinations, so when cameras or lenses are upgraded, the same housings can be used. Easy to install and service, they offer a cost-effective solution for modern security systems.

Benefits

- Suits a Wide Variety of Applications
- Easy to Install
- Proven Reliability and Endurance
- Flexibility
- Low Running Costs

Bewator Housings on Tienanmen Square

The largest city central square in the world, Tienanmen Square is not only the symbol of Beijing but also the symbol of China. This immense courtyard was the site of many historical events.

The square is surrounded by a variety of significant edifices: Chinese Revolution History Museum, Mao Mausoleum, Great Hall of the People, the elegant and beautiful Tiananmen (Heavenly Peace Gate), and Qianmen (Front Gate).

To monitor the activity on such a wide space, and ensure the entrance to the surrounding historical sites was secure, a 2 part project was launched in 1999: a security system based on Bewator controllers was designed and installed. Bewator HSo1 housings and pan & tilts were the solution of choice to accommodate the cameras throughout and around the square. Weather conditions can be quite harsh and Bewator Housings ensure high quality pictures every time.



Camera Housings from Bewator Compact or Super...the Connoisseur's choice!

HS01 Super Connoisseur™

- Ideal for pan, tilt and zoom installations with larger zoom lenses
- Suitable for use with built-in RX210 series 10 function telemetry receiver
- Recommended system partners: P16 & P25 pan and tilt heads, VII+ or V3i
- Sunshield and demister fitted as standard
- Internal and external cooling fan options
- Optional mounting kit for large zoom lenses
- Usable Internal Dimensions: 400mm x 125mm x 110mm
- 110/230 Vac, 12/24 Volts



Ideal for cameras with integral lenses or camera modules



Sunshield and Demister fitted as standard

HSo2B Compact Connoisseur™

- Full cable management
- Bracket allows low voltage cables to be insulated from power cables to fully comply with wiring regulations
- Unique Patented taper lock joint system (patent No GB2372290)
- Allows accurate positioning of camera without the need to hold it in position prior to locking
- Locks securely with a turn on a single Allen bolt for quick installation
- "Slide and hang" cover
- Provides easy in-situ access for installation and servicing
- Optional tamper switch and vandal resistant screws
- Unique Ceiling adaptor
- Sunshield & Demister fitted as standard
- Usable Internal Dimensions: 225mm x 85mm x 80mm

Weatherproofed to IP67





HS₀₃B

- A smaller size housing ideal for fixed cameras both internal and external
- Includes freely-adjustable wall bracket
- Usable Internal Dimensions: 180mm x 85mm x 80mm
- Sunshield and demister fitted as standard
- "Slide and hang" cover for easy in-situ access for installation and servicing
- Optional tamper switch and vandal resistant screws
- Ideal for use with cameras having integral lenses or camera modules
- Weatherproofed to IP67

Weatherproofed to IP67

Housing Brackets

Bewator makes a complete range of brackets, suitable for both wall and ceiling mounting, that can be used with most of the commonly used third-party housings and all of the Bewator camera housing range.

- BH15 Wall bracket for use with HSo1 and HSo2 Suitable for loads up to 15 kg
- BH20Mk2 Wall bracket for use with HS01 housings. Suitable for loads up to 20 kg.

For more information on the Housings range, see the **Camera Housings Selection Guide** p.31 Product technical data sheets are available from the Product Section on our Website

Explosion-proof from Bewator



Security under extreme conditions!



Town and City Centres



Retail & Commercial Buildings



Airports and Mass Transit



Public places & Buildings / Leisure Areas



Chemical and Petrochemical



High Security Buildings











Asset Surveillance



Crime



Public Security

Security in hazardous areas

Bewator is a world leader in the manufacture of explosion-proof housings and Pan & Tilt heads These are typically used in 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 in hazardous areas

The Challenge

Threats of terrorist attacks on chemical plants and oil refineries, and the growing awareness of general security and processing safety issues in petrochemical, food & beverage and grain mills industries for example, call for Video Surveillance solutions which will not add to the risk of explosive gases, vapours or dusts being ignited.

Conventional Solutions

The need for flexible equipment is paramount in such specialised applications. Chemical or food processing plants often handle potentially explosive dusts or powders, which means most surveillance equipment can not be used due to the risk of it causing an explosion. Even when suitable equipment is used, end-users are often faced with added costs or certification issues when they need additional functionality e.g. integral receivers, sunshields or wipers.

Bewator Solutions

Security threats and safety risks can run high on oil & gas and chemicals processing facilities, but an effective CCTV system can help dramatically reduce such risks. Bewator's range of Phoenix™ Explosion-proof Camera housings and Pan & Tilt heads are ATEX certified by BASEEFA to Atex Directive 94/9/EC (IIB or IIC Gas and Dust, including hydrogen and acetylene). The units are designed to prevent external explosions by containing any sparks or flames generated by the equipment inside them.

This prevents potentially explosive atmospheres (gases, vapours etc) or materials outside the equipment from being ignited. Phoenix™ Housings can have a wiper and integral Telemetry Receiver factory fitted, and the Pan & Tilts are fitted with preset potentiometers

Benefits

Used in conjunction with Bewator's range of CCTV solutions such as the V3i matrix and Eventys DVMS, they help deliver cost effective, high performance security systems with remote monitoring capabilities, reducing the need for costly and potentially risky visits to remote production sites.

- Suits a Wide Range of Applications
- Easy to Install
- Proven Reliability and Endurance
- Flexibility
- Low Running Costs

Phoenix™ around the world

Phoenix[™] range of explosionproof housings and pan and tilts are used around the world in oil refineries, petrochemical plants and even rocket launching sites. First launched in 1987, the range was chosen because of its engineering performance and reliability.

The New range of Phoenix™ takes this performance even higher, and is now not only the replacement of choice for upgrades and systems expansions, but is also more and more popular in the food processing industry dealing with volatile vapours or dusts, like flour or alcohol vapours.



Explosion-proof from Bewator

Security under extreme conditions!

FP50B

Phoenix Pre-set Pan & Tilt

- ATEX approved for use in hazardous areas
- Certified to gas group IIB, zones 1& 2
- Weatherproofed to IP67
- · Side mount only
- · 4okg load capacity
- Presets
- 230Vac, 110Vac, 24Vac
- Speeds: 5°/S Pan, 5°/S Tilt





FPHC-40

Phoenix Camera Heads

- ATEX equipment certified for gas group IIC (hydrogen and acetylene), zones 1 & 2
- ATEX equipment certified for use in hazardous dust areas
- Pre-wired side-mount pan & tilt head
- Presets
- 182mm outside diameter, 210x186mm with sunshield
- Housing supplied complete with heater & sunshield
- Weatherproofed to IP67
- Factory pre-built
- Optional wiper
- Optional built-in telemetry receivers (see below)
- Optional tamper switch
- 230Vac, 110Vac, 24Vac









IP67

ATEX
Gas Group
IIC
zones 1&2

FH₀7B

Phoenix Camera Housings

- ATEX component certified for gas group IIB (ethylene and propane), zones 1 & 2
- ATEX component certified for use in hazardous dust areas
- 182mm outside diameter, 210x186mm with sunshield
- Two length options
 - FHo7B-30 290mm internal
 - FHo7B-40 420mm internal
- Weatherproofed to IP67
- Supplied complete with heater & sunshield
- Optional wiper
- Optional built-in telemetry receivers (see below)
- Optional tamper switch
- Optional factory pre-build and ATEX equipment certification
- 230Vac, 110Vac, 24Vac



ATEX
Gas Group
IIB
zones 1&2

IP67

WIPER

FH₀7C

Phoenix Camera Housings

- ATEX equipment certified for gas group IIC (hydrogen and acetylene), zones 1 & 2
- ATEX equipment certified for use in hazardous dust areas
- 182mm outside diameter, 210x186mm with sunshield
- Two length options
 - FHo7C-30 290mm internal
 - FHo7C-40 420mm internal
- Weatherproofed to IP67
- Supplied complete with heater & sunshield
- Factory pre-built
- Optional wiper
- Optional built-in telemetry receivers (see below)
- Optional tamper switch
- 230Vac, 110Vac, 24Vac



Factory Fitted Optional Equipment for Camera Housings

- Wiper suitable for IIC gas group (230V, 110V and 24Vac)
- In-built telemetry receivers (eliminates need for ATEX approved receiver enclosure)
 - FHo7-RX210 10 function
 - FHo7-RX217 17 function with presets
- Tamper switch



BEWATOR

IR Lamps from Bewator For security round the clock!

IR lamps enable suitably sensitive cameras to operate at night. These are available with 715nm or 830 nm filters for discrete or covert operation.

Range

over

6₀M



IR50

Low power - 50W

- Use for small areas, or to enhance individual 'spots'
- Integral photocell available for automatic operation
- Operating range up to 20 metres (spot bulbs)
- Suitable for both internal and external use



IR300

Medium power - 300W

- Use for larger areas 20-60 metres (spot bulbs)
- Separate photocell available for automatic operation

Compatible

with P6o



IR600

High power - 500W

- Use for larger areas
- Operating range over 60 metres (spot bulb)



IR900

High power - 500W

- Use for larger areas
- Operating range over 6om (spot bulb)
- Flood and spot options

Replacement Bulbs

- Replacement bulb kits are available for all current and previous IR lamps
- Mounting brackets available see IR Lamps Selection guide







Electronic Accessories

For security systems in need of a boost!

Bewator provides a full range of those specialist installation items that make the difference between a valuable video monitoring system with clear, usable images on a collection of poor fuzzy images. From video distribution amplifiers that make installation easier, peak white inverters that enable a vehicles occupants to be seen at night even when the vehicles own headlights are aimed at the camera, through to those essential video transformers, the Bewator range is designed to enhance any system's performance.

Removes ground loops! VT75-75

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.



VT148

RF Rejection Unit

Removes 'C' type telemetry to stop interference to a video signal of a fixed or twisted pair controlled camera connected to a telemetry controller.

Removes 'C'-Type Telemetrv

12Vdc

TRX 482/D12

Network Expander

Can be used as an RS485 to RS422 converter or an RS485 repeater. It greatly expands the flexibility and networking capabilities of Bewator CCTV control and telemetry systems.

PCBT234

3 to 4 Wire Lens Adapter PCB Suitable for interfacing 3 wire lenses, with the 4 wire

lens control outputs from telemetry receivers.

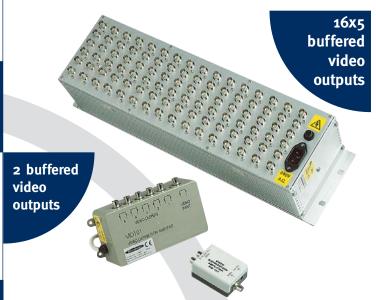
Enhances high contrast images



VID 149/D12

Peak White Inverter

Reduces intensity of bright white lights (e.g. headlights), so that details around light (e.g. persons in car) can be seen. Should be used only with a video auto iris lens.



Video Distribution Amplifier

- Receives a video signal and provides multiple outputs, at same amplitude as input
- VID 151/D12 operates from a 12V dc supply and consists of 2 Video outputs
- VID 101 operates from a 240V ac supply and consists of 5 Video outputs
- VID 101R operates from a 240V ac supply and consists of 16 x VID 101, assembled to fit into a 19" rack

PSU₁₂D

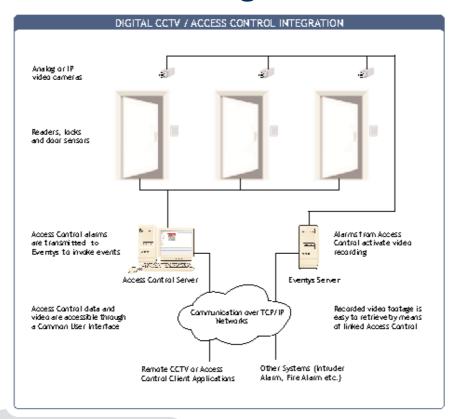
Power Supply 12VDC (500mA)

Additional or replacement power supply unit, suitable for powering remote keyboards.

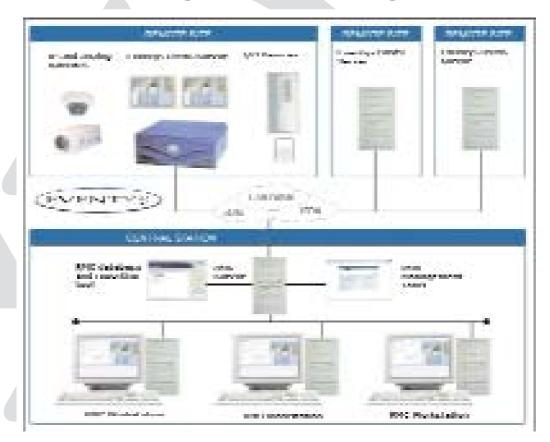
Systems Example:



CCTV/Access Control Integration



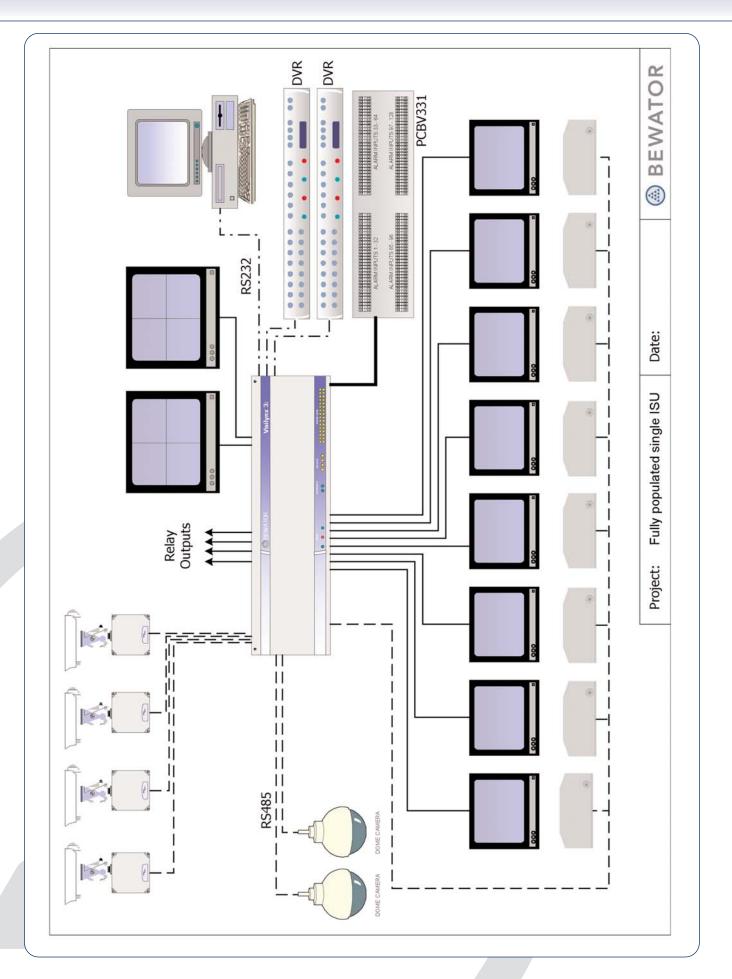
Remote Monitoring & Networking



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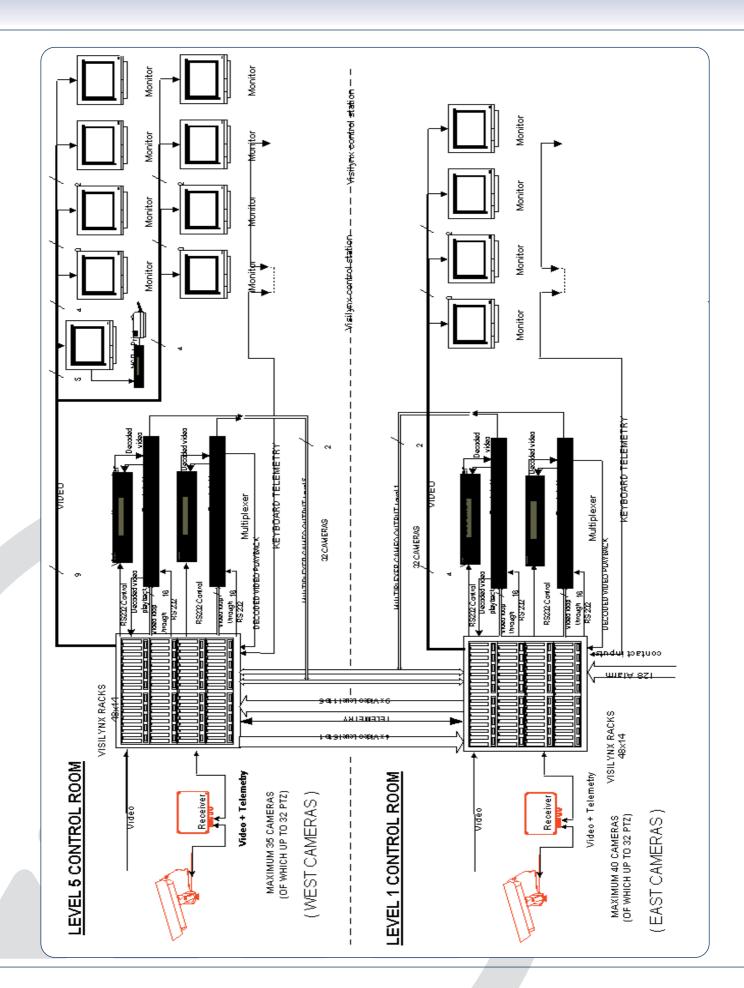


Systems Example: Retail



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Systems Example: Stadium





Receivers Selection Guide

		RX210	RX217	RX217D	RX318DZ
Pan & Tilt Voltage		230-240V AC	230-240V AC	24V DC	24V DC
Dynamic Variable Speed Control		230-240V AC	230-240V AC	10:1	100:1
Continuous Pan Rotation				•	100.1
Zoom & Focus Voltage		12V DC	12V DC	12V DC	12V DC
99 PTZ Presets		12V DC	120 DC	120 DC	12V DC
				•	
Iris control			•	•	•
Dynamic Privacy Zones					62
Wash & Wiper Capability		•	•	•	•
Telemetry	Over the Coax	Uni-directional	Uni-directional	Uni-directional	Bi-directional
	Twisted pair	Uni-directional RS485	Uni-directional RS485	Uni-directional RS485	Bi-directional RS485 or RS422
High Current IR Light		K5405	R5405	Optional	Optional
Spare Aux		•	•	• Optional	• Optional
Video Gain & HF lift					•
					•
On-screen setup					-
Alarm Inputs					•
Alarm Outputs					•
Auto Test		•	•	•	•
Telemetry Protocols					
Molynx	Coax or Twisted Pair	•	•	•	•
Videmech Universal (UP)	Twisted pair				•
Ernitec (ERNA)	Twisted pair				•
Pelco D	Twisted pair				•
Pelco P	Twisted pair				•
JVC Camera Setup	7.1			TK-C1360	TK-C1360/1460/1480
Power consumption of receiver		20VA	20VA	20VA	30VA
Maximum load current		5A	5A	5A	5A
Dimensions	Length	220mm	254mm	280mm	300mm
	Width	166mm	164mm	210mm	300mm
	Height	86mm	135mm	135mm	130mm
Unit weight	РСВ	80g	500g	500g	350g
	Enclosure	1.5kg	1.75kg	1.75kg	5kg
Temperature range		-20°C to +40°C	-20°C to +40°C	-20°C to +40°C	-20°C to +40°C
Environmental (BS EN 60 529)	in enclosure	IP55	IP66	IP66	IP67
Power cumply	in housing	IP66	220 2204 40	220 2407 40	220 2407 40
Power supply	in enclosure in housing	230-240V AC 110-240V AC	220-230V AC	230-240V AC	230-240V AC
Warranty	in nousing	1 Year	1 Year	1 Year	5 years*
Warranty		1 Teal	1 real	1 fedi	•

^{*} Extended Warranty. Conditions apply

Accessories

RX2-PCB234

5

RX217D-JVC14 KIT JVC 1460/1480 remote cameras set up kit ('D'-type telemetry only)

Adaptor PCB for 3-wire lenses with RX2xx receivers

RX2-E Euro socket adaptor for RX217/RX217D receivers

Matrix Systems Selection Guide



		V3-ISU	V-K
		V3i unit	Keyboard
Loop-through	Camera or dome inputs (PAL or NTSC)	32	
Monitor outputs	With on-screen display	8	
Telemetry	Bewator dome, P&T and camera control	Over the Coax	
	Bewator and 3rd party dome, P&T and camera control	Twisted Pair	
Video loss detection		•	
Alarm inputs	Alarm contacts into V3-ISU	128	
	Remote alarms via duplex receivers	•	
Programmable relay outputs		4	
Configuration	Non-volatile configuration	•	•
Software configurable ports	RS485/422 (keyboards)	1	
	RS232 (test/configuration)	1	
	RS232 (modem/DVR/MUX/VCR/PC-CON)	1	
	RS422/232 (DVR/MUX/VCR/PC-CON or	3	
Preset support (per camera)	networking V3i ISUs together)	99	
Preset sequence		•	
Preset tour		•	
Expansion Capability	Maximum node size (using 2 V3-ISU)	64x16	
	Maximum number of ISU's in system	254	
Quad card		option (up to 2 per ISU)	
Configuration and Fault diagnosis software	VisiPC Windows software on CD-ROM	•	
Numeric keypad	Conventional selection of camera/presets		•
Selection of cameras	By name or number		•
Views	Named combination of a camera and preset		255
Dedicated keys	For key functions		•
Programme key	Unauthorised reprogramming restriction		•
PIN code	Unauthorised operation restriction		•
Video Sequences	Up to 63 camera pictures / presets per sequence		64
Warranty		5 years*	5 years*

^{*} Extended Warranty. Conditions apply

For systems requirements outside V3i capabilities, please contact Bewator for advice.

Accessories

V3-QUAD	visitynx 3 quad card. Provide a cotour quad screen video output from the v3-150 in composite and
	Y-C format with on-screen text. Up to 2 guad cards may be fitted into each ISU.

(Covered by 5 years extended warranty*)

VC-3E ISU expansion cable. Allows two ISU units to be linked forming a full cross-point switching

64x16 video matrix

V3-CONF Configuration and fault diagnosis software for Visilynx 3i

PCBV331 Alarm panel (accepts 128 pairs of contacts)

VC-3K Keyboard cable, 3m (between V3/V3i and keyboard)

VC-ALARM Alarm cable between PCBV331 and V3-ISU

VC-PCCON RS232 cable used for remotely controlling the system from a PC (using PC-CON protocol)

VC-3CONFIG Configuration cable (between Visilynx 3/3i and PC)

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Eventys DVMS Selection Guide

	EV-R4	EV-R8	EV-R16
Camera inputs	4	8	16
Simultaneous IP and analogue cameras	•	•	•
Compression	MPEG (JPEG option)	MPEG (JPEG option)	MPEG (JPEG option)
Storage capacity Internal (at time of print) External	900GB Unlimited	900GB Unlimited	900GB Unlimited
Advanced Networking	•	•	•
Internal CD-RW	•	•	•
Recording modes - selectable per camera and by week/calendar schedule	Motion detection Continuous Event triggered	Motion detection Continuous Event triggered	Motion detection Continuous Event triggered
Covert camera option	•	•	•
Audio recording	6 channels	10 channe l s	10 channels
Multiscreen playback and live viewing	•	•	•
Dome / P&T telemetry	•	•	•
Record speed - system (max)	100fps / 25fps dependent on hardware	150fps / 50fps dependent on hardware	96fps / 64fps dependent on hardware
Record speed - single camera (max)	25 ips	25 ips	25 ips
Record schedule	•	•	•
Video data search	Date / time Graphical Retrospective Motion Alarm/Event	Date / time Graphical Retrospective Motion Alarm/Event	Date / time Graphical Retrospective Motion Alarm/Event
Alarm inputs	4	8	16
Optional I/O	8 optoisolated inputs 8 relay outputs	16 optoisolated inputs 16 relay outputs	32 optoisolated inputs 32 relay outputs
Remote Monitoring Software	Free	Free	Free
Multiscreen AND replay on spot monitor	•	•	•
Advanced Remote Control, Viewing & Alarm Handling	● (multi-site / multi- unit capable)	• (multi-site / multi- unit capable)	● (multi-site / multi- unit capable)
Visilynx Matrix Compatible	•	•	•
Warranty*	2 years*	2 years*	2 years*

^{*} Extended Warranty. Conditions apply

IP inputs ordering guidelines

IP camera inputs may be substituted in groups of 4, e.g.

EV-R16-480-E4 = 16 channels - 12 analogue camera inputs and 4 IP camera inputs, 480GB storage EV-R8-160-E8 = 8 channels - 8 IP camera inputs, 160GB storage.

Accessories

EV-S-RC Eventys Controller software

EV-ARKIT Alarm inputs, relay outputs kit

EV-232-485 RS232-485 converter

The standard 1 year warranty applies to accessories

Domes Selection Guide



		Internal Dome D08RX-X	External Dome D08RXE-X	Dummy Dome D08-EY	Ancillaries
Pendant mount		Option	Option	Option	BD08P
Wall Mount		Option	Option	Option	BD08W
Ceiling Mount		Option	Option	Option	BDC08
Smoked dome		•		•	
Clear dome			•		
230Vac-24Vac/2A PSU		•	•		
110Vac-24Vdc/2A PSU		Option	Option		PSU24-2/U
Pre-wired 7m cables			•		
Privacy zones			24		
Camera Module		Sony EXview	Sony EXview		
Sensitivity	Day	0.05	0.05		
	Night		0.01		
Zoom range	Optical	18X	18X		
	Digital	12X	12X		
Telemetry receiver		Integral, multi-	Integral, multi-		
relementy receiver		protocol	protocol		
	Over the Coax	Uni-directional	Uni-directional		
	Twisted Pair	Uni-directional	Uni-directional		
	i wisted i ali	RS485	RS485		
Telemetry protocols	Molynx	Coax or Twisted	Coax or Twisted		
. c.cc., p. c.c.c		Pair	Pair		
	Ernitec ERNA	Twisted Pair	Twisted Pair		
	Pelco D	Twisted Pair	Twisted Pair		
	Pelco P	Twisted Pair	Twisted Pair		
	DM Sprite (VCL)	Twisted Pair	Twisted Pair		
Pan speed deg/sec		180	180		
Tilt speed deg/sec		50	50		
Presets	Fully programmable	64	35		
Switchable day/night			Automatic		
Warranty*	3 years*	3 years*	3 years*	1 Year	1 Year

^{*} Extended Warranty. Conditions apply. Excludes Camera modules

Accessories

BDo8W Wall mount bracket for Do8

BDo8P Pendant mount bracket for Do8, 1.2m long

BDCo8 Recessed ceiling mount kit for Do8

PSU24-2 24Vac power supply for Do8. 230Vac input

PSU24-2/U As above but 110Vac input

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Pan & Tilts Selection Guide

				AC							DC			
Model	P16T	P16T/L	P16T-P	P16T-P/L	P25-P	P25-P/L	P16T/D	P25/D	P55T/D	P55-RX/D	P60H/D	P60TH/D	P66/D12	P66-P/D12
Load carrying capacity	16kg	16kg	16kg	16kg	25kg	25kg	16kg	25kg	15kg	15kg	50kg	40kg (with additional load compensato	3kg r	3kg
Presets			•	•	•	•	•	•	•	•	•	•		•
Standard mount	top	top	top	top	Side	Side	top	Side	Тор	Тор	Side	Тор	Тор	Тор
Heavy duty potentiometers			•	•	•	•	•	•						
Speed/Sec	6/3 deg	6/3 deg	6/3 deg	6/3 deg	6/3 deg	6/3 deg	48/24 deg	24/12 deg	58/12 deg	58/12 deg	32/10 deg	32/10 deg	10/4 deg	10/4 deg
IP rating	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP66	IP66
Backlash (+/-)	< +/ - 0.1deg	< +/ - 0.1deg	< +/- 0.1deg	< +/- 0.1deg	< +/- 0.1deg	< +/- 0.1deg	< +/- 0.1deg	< +/- 0.1deg	< +/- 0.1deg	< +/- 0.1deg	< 0.3deg	< 0.3deg	< 0.3deg	< 0.3deg
Heater	P16-HKIT	P16-HKIT	P16-HKIT	P16-HKIT	Standard	Standard	P16-HKIT	Standard	-	-	Standard	Standard	-	-
Pre-terminated 2m cable(s)	•	•	•	•	•	•	•	•						
Suggested Housing	HS01	HS01	HS01	HS01	HS01 BP40	HS01 BP40	HS01	HS01	HS01	HS01	HS01	HS01	HS02	HS02
Bracket	BP40	BP40	BP40	BP40	BP100	BP100	BP40	BP40 or BP100	BP40	BP40	BP100	BP100	BP04	BP04
Corner bracket	BP40 + BA01C	BP40 + BA01C	BP40 + BA01C	BP40 + BA01C	BP40 + BA01C or BP100	BP40 + BA01C or BP100	BP40 + BA01C	BP40 + BA01C or BP100	BP40 + BA01C	BP40 + BA01C	BP100	BP100	-	-
Built-in telemetry										Twisted pair Molynx or Videmech UP				
Power supply	230Vac	24Vac	230Vac	24Vac	230Vac	24Vac	24Vdc	24Vdc	24Vdc	24Vdc/ac	24Vdc	24Vdc	12Vdc	12Vdc
Warranty	5 years*	5 years*	5 years*	5 years*	5 years*	5 years*	5 years*	5 years*	1 year	1 year	1 year	1 year	1 year	1 year

^{*} Extended Warranty. Conditions apply

Fixed Brackets

BPo4 15kg rated, 258mm long - suitable for P66 (50mm pcd)

BP40 40kg rated, 460mm long - suitable for P16, P25, P55, etc. (standard 4" pcd)

BA01C Corner-mount adaptor for BP40, BH20, BD08

BP100 100kg rated, 665mm long - suitable for P60, FP50, etc.

Accessories

P16-SCK Safety cable kit for P16 pan & Tilt heads

P16-APAN Retro-fit autopan card for P16, 230Vac, 50/60Hz

P16-APAN/L As above but 24Vac

P16-HKIT Retro-fit heater/thermostat kit 230Vac

P16-HKIT/L As above but 24Vac/dc
P12-DC6 Spare DC input connector
P00C-AC7F Spare AC input connector
P00C-4F Spare preset connector

P16CA-DC7F Spare 2m pre-wired DC power lead
P16CA-AC7F Spare 2m pre-wired AC power lead
P00CA-4F Spare 2m pre-wired preset lead

P6o-LCKIT Additional load compensator kit for P6oT models required for loads>25kg

P6oC-14F Spare input connector for P6o models

BAP66 Mounting adaptor to convert base to standard 4" pcd on P66 models

P66C-10F Spare input connector for preset versions of P66

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Housings Selection Guide



		HS01	HS01/L	HS02B	HS02B/L	HS03B	HS03B/L
Туре		External	External	External	External	External	External
Internal Usable dimension	L	400	400	225	225	180	180
	W	125	125	85	85	85	85
	Н	110	110	80	80	80	80
Bracket included				•	•	•	•
Fully cable managed bracket				•	•		
Optional fixed bracket		BH20mk2 or P&T	BH20mk2 or P&T	SUPPLIED	SUPPLIED	SUPPLIED	SUPPLIED
Toughened Glass		•	•	•	•	•	•
Sunshield		•	•	•	•	•	•
Demister		•	•	•	•	•	•
Power supply	110-230Vac	•		•		•	
	12-24Vac		•		•		•
Weight		6kg	6kg	3.54kg	3.54kg	2.54kg	2.54kg
IP Rating		IP66	IP66	IP67	IP67	IP67	IP67
Fan kit option (internal)		•	•	•	•	•	•
Fan kit option (external)		•	•				
Wiper option		•	•				
Warranty		1 year	1 year	1 year	1 year	1 year	1 year

Accessories

WIV-6A

WIV-6B

Spare wiper arm for HVo1-60

Spare wiper blade for HV01-60

, 1000			
BHC02	Ceiling mount bracket for HSo ₂ B	Washers	
HSo2-FKIT	Internal fan kit for HSo2B and HSo3B, 23oVac	WAo5	5L reservoir, 230Vac
PSU ₁₂ D	12Vdc 500mA PSU (fits inside HS02B and HS03B), 230Vac input	WAo5/L	As above but 24Vac
PSU ₁₂ D/U	As above but 110Vac input		
HSo2-TKIT	Anti-tamper kit - tamper switch and secure fasteners	Swivel bracke	ets
TOOL-PINEHEXSK	T-6MM Tool for 6mm A/F socket pin head secure fasteners	BH15	15 kg rated, 280mm long -
TOOL-PINTORX-4	Tool for 4mm Torx pin head secur fasteners		Suitable for HSo1 (check
Wlo1	Wiper retro-fit for HSo1-40		length) 4" pcd mounting
Wlo1/L	As above but 24Vac		
WI01AB	Spare wiper arm and blade for HSo1	BH20MK2	20kg rated, 410mm long -
HSo1-CON	Connector PCB for HSo1 to ease fully-functional camera		suitable for HSo1
	assembly wiring		
HSo1-FKIT	Internal fan kit for HSo1, 230Vac	Column space	ers
HSo1-FKIT/L	As above but 24Vac	BCSo6	6" (150mm) column spacer,
HSo1-TKIT	Anti-tamper kit- switch and secure fasteners		standard 4" pcd
HSo1-EFKIT	External Fan kit comprising replacement sunshield c/w	BCS09	As above but 9" (225mm)
	external fan cooling and replacement connector PCB	BCS12	As above but 12" (300mm)
	incorporating an internal fan, 230Vac		
HSo1-EFKIT/L	As above but 24Vac	Swivel mount	adaptors
LENS-KIT	Mounting kit for large zoom lenses	BS100	100kg rated (standard 4" pcd)
WIV-4A	Spare wiper arm for HVo1-50	BS40	40kg rated (standard 4" pcd)
WIV-4B	Spare wiper blade for HVo1-50		



Explosion-proof Selection Guide

		FP50B	FH07B-30	FH07B-40	FH07C-30	FH07C-40	FPHC-40
		Pan & Tilt	Housing	Housing	Housing	Housing	Camera head
Approvals	ATEX 🖘	EEx d IIB T85C	EEx d IIB T85C	EEx d IIB T85C	EEx d IIC T85C	EEx d IIC T85C	EEx d IIC T85C
Load rating		40kg					
Mounting		Side mount					side mount
Presets		•	•	•	•	•	•
Heater			•	•	•	•	•
Sunshield			•	•	•	•	•
Factory fitted Wiper			Option	Option	Option	Option	Option
Optional in-built	Factory fitted 10fn receiver		•	•	•	•	•
telemetry receivers	Factory fitted 17fn receiver		•	•	•	•	•
Tamper switch			Option	Option	Option	Option	Option
Dimensions							Housing Pan & Tilt
External	L	448mm	545mm	675mm	545mm	675mm	675mm 448mm
	W	167mm	209mm	209mm	209mm	209mm	209mm 167mm
	Н	286mm	186mm	186mm	186mm	186mm	186mm 286mm
Internal	L		290mm*	420mm*	290mm*	420mm*	420mm*
	W		114mm*	114mm*	114mm*	114mm*	114mm*
Please note that specific dimensional and power restrictions apply to cameras, enses and other equipment installed in the nousings	Н		94mm*	94mm*	94mm*	94mm*	94mm*
Weight		19kg	10kg	11.8kg	10kg	11.8kg	11.8kg 19kg
Environmental	(BS EN 60 529)	IP67	IP67	IP67	IP67	IP67	IP67
Power supply	230Vac	FP50B	FH07B-30	FH07B-40	FH07C-30	FH07C-40	FPHC-40
	24Vac	FP50B/L	FH07B-30/L	FH07B-40/L	FH07C-30/L	FH07C-40/L	FPHC-40/L
	110Vac	FP50B/U	FH07B-30/U	FH07B-40/U	FH07C-30/U	FH07C-40/U	FPHC-40/U
Recommended Brackets	BP100	BP100	BP100	BP100	BP100	BP100	BP100
		BS100 Swivel mount					
Warranty*		3 years					

^{*} Extended Warranty. Conditions apply

Factory Fit Options

FHo7W Wiper kit for FHo7 housings, 230Vac, 50/60Hz

FHo7W/L As above but 24Vac 50/60Hz
FHo7W/U As above but 110Vac 60Hz

FH07-RX210 10 function-receiver for mounting in FH07 housings 110-230 Vac FH07-RX217 17 function preset receiver for mounting in FH07 housings 230Vac

FHo7-TKIT Tamper switch for FHo7 housings

FHo7-CERT Factory Fit customer-supplied camera and lens* plus ATEX equipment certification

for FHo7 IIB housings (additional charge per housing)

Accessories

FHo7-CGLAND Atex II 2 GD (Eexd IIC) compound filler barrier gland for unarmoured cable, suitable for use with Phoenix IIC

 $camera\ housings.\ M2o\ brass\ CZ121\ threaded\ gland\ suitable\ for\ cables\ of\ the\ following\ specification:\ max.$

cores 14; max. over cores 12.5mm; max inner sheath 14mm; outer sheath min. 9.5mm, max 14mm.

WI01AB Spare wiper arm and blade for FH07 housings.

BS100 100 kg Swivel mount adaptor (standard 4" pcd)

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^{*} Bewator can supply and fit suitable cameras and lenses on request. Contact Bewator Customer Support for details.

IR Lamps Selection Guide



	IR50F	IR300	IR300-830	IR600	IR600-830	IR900	IR900-830	IR900-W	IR900-830W
Wattage	50 W	300 W	300 W	500 W	500 W	500 W	500 W	500 W	500 W
Filter	715nm	715nm	830nm	715nm	830nm	715nm	830nm	715nm	830nm
Filter type	Discreet	Discreet	Covert	Discreet	Covert	Discreet	Covert	Discreet	Covert
Angle type	Flood	Spot or Wide (using IR- WIDE)	Spot	Spot	Wide	Wide			
Angle value	38 deg	20 deg / 65 dea	20 deg / 65 deg	20 deg / 65 deg	20 deg / 65 deg	9 deg	9 deg	60x20 deg	60x20 deg
Integral photocell	•			•	•				
Power supply	230Vac	230Vac	230Vac	230Vac	230Vac	230Vac	230Vac	230Vac	230Vac
Warranty	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

Accessories

IR900-BULB Replacement bulb for IR900
IR900-PHOTO Photocell kit for IR900 lamps

IR900-PCELL Replacement photocell for IR900 lamps

IR-PHOTO Separate photocell for IR lamps
IR600-BULB Replacement bulb for IR600

IR-WIDE Wide-angle converter (60x30) for IR300 and IR600

IR600-PSU Replacement PSU for IR600, 230Vac

IR-715FA Spare 715nm filter assembly for IR300, IR600 IR-830FA Spare 830nm filter assembly for IR300, IR600

IR300-BULB Replacement bulb for IR300
IR950-BULB Replacement bulb for IR950

IR50-FBULB Replacement bulb for IR50-F (Flood version)
IR50-SBULB Replacement bulb for IR50-S (Spot version)
IR50-830KIT 830nm (covert) filter conversion kit for IR50

Mounting Brackets

BIR-PTX2 Dual IR lamp mount for P6oT
BIR-P6o Single IR lamp mount for P6o

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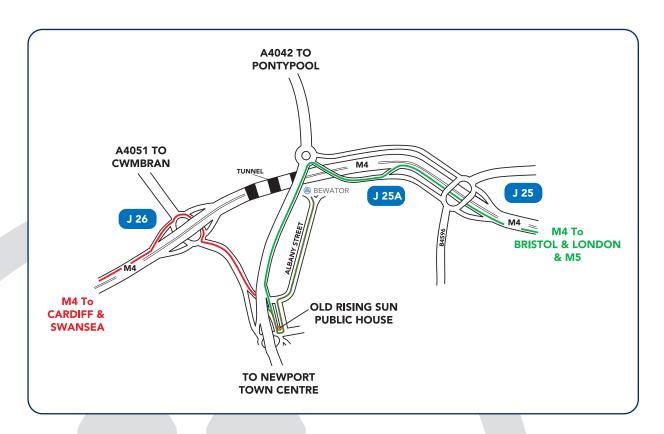


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