



SIEMENS

Building Technologies

CCTV
products & accessories
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product overview

	CCBS1225	CCBC1225	CCBB1225	CCBC1325	CCBB1325	CCBC1320	CCBB1320	VCD320	VCD120
									
	Day-Night	Colour	Mono	Colour	Mono	Colour	Mono	Colour	Mono
CCD size	1/2"	1/2"	1/2"	1/3"	1/3"	1/3"	1/3"	1/3"	1/3"
TV lines	480	480	580	480	580	330	400	380	420
Resolution	High	High	High	High	High	Standard	Standard	Medium	Medium
TV standard	PAL, 50Hz	PAL, 50Hz	CCIR, 50Hz	PAL, 50Hz	CCIR, 50Hz	PAL, 50Hz	CCIR, 50Hz	PAL, 50Hz	CCIR, 50Hz
Min. illumination (F1.2 @ 50IRE, sens-up)	0.02 Lux	0.25 Lux	0.02 Lux	0.6 Lux	0.15 Lux	0.4 Lux	0.1 Lux	0.8 Lux	0.55 Lux
S/N-ratio	> 50dB	> 50dB	> 52dB	> 50dB	> 50dB	> 50dB	> 50dB	> 50dB	> 45dB
On screen display menu	•	•	•	•	•	•			
Camera title overlay	24 char.	24 char.	24 char.	16 char.	16 char.	16 char.			
Colour / monochrome switchable	•	•		•		•			
Infrared cut filter	mechanical								
Backlight compensation	49 zones	49 zones	49 zones	6 zones	6 zones	6 zones	auto	auto	
Programmable shutter speed	•	•	•	•	•	•	auto	auto	auto
Gamma correction circuit	•	•	•	•	•	•	•		
White balance	manual / auto	manual / auto		manual / auto		manual / auto		auto	
90 ~ 240VAC power				•	•	•	•		
Dual power 12VDC / 24VAC	•	•	•	•	•	•	•	12Vdc only	12Vdc only
Quick-connect (no tool required) 12V / 24V	•	•	•	•	•	•	•		
Power on LED indicator				•	•	•	•		
Direct drive Auto iris control	•	•	•	•	•	•	•		
Video drive Auto iris control	•	•	•	•	•	•	•		
Cable management bracket				•	•	•	•		
One-screw easy back focus adjustment	•	•	•	•	•	•	•		
Phase locking synchronisation	•	•	•	•	•	•	•	internal	internal
Adjustable sharpness (H & V)	•	•	•	•	•	•			
Passive infrared detector (PIR) included with camera								•	•
Digital picture storage in camera	4 pictures	4 pictures	4 pictures						
Wide dynamic	•	•	•						
Remote programming	•	•	•						
RS485/RS422 interface with ID	•	•	•						
RS232 interface	•	•	•						
Alarm input/output	•	•	•						
S-VHS Y/C output	•	•							
Extra sensitivity under low illumination (400x low speed shutter)	0.0003 Lux	0.0125 Lux	0.0003 Lux						

Siemens

monochrome cameras

CCBB1320-MC

1/3" CCD mono camera 400 TV lines, CCIR, 230 V_{AC}

CCBB1320 is an excellent choice of monochrome camera for general surveillance applications. Good low-light sensitivity, electronic shutter, automatic gain control and back-light compensation enable this camera to operate in a wide range of lighting conditions. Setup is via DIP switches.

Pixels	500 (H) x 582 (V)
Synchronisation	Internal with crystal External mains synchronisation
Horizontal resolution	400 TV lines
Minimum illumination	0.1 Lux (F1.2, AGC On) at 50 IRE
S/N ratio	>50 dB
Gain control	Selectable: On (25 dB) or Off
Electronic shutter	Automatic between 1/50 s and 1/100,000 s
Back-light compensation	Selectable: On or Off
Lens mount	CS (C-mount adapter supplied)
Auto-iris control	Direct drive or Video drive
Dimensions (W x H x D)	70 x 58 x 117 mm
Power requirements	100 ~ 240 V _{AC} , 2.8 W

2GF1083-8CA

A24205-A336-B677



CCBB1320-LC

1/3" CCD mono camera 400 TV lines, CCIR, 12 V_{DC} / 24 V_{AC}

As above for technical details but 12 V_{DC} or 24 V_{AC}, 2.8 W supply.

2GF1083-8AA

A24205-A336-B677

CCBB1315

1/3" DSP mono camera 570 TV lines, CCIR, 12 V_{DC} / 24 V_{AC}

The CCBB1315 is characterised by a new type of design and a comprehensive range of functions. There is a 4x digital zoom, which can be selected locally on the camera or remotely via the integral remote control interface (TTL, RS485). In addition, remote parameterisation, is possible via this interface. Installing important connections are made by spring terminals.

Pixels	752 (H) x 582 (V)
Synchronisation	Internal with crystal External with video signal Line lock over 24 V _{AC}
Electronic zoom	4x, adjustable
Horizontal resolution	>570 TV lines
Minimum illumination	0.03 Lux (F1.0, AGC on)
S/N ratio	>48 dB, weighted
Gain control	Off / Auto (AGC), 0 ~ 24 dB
Electronic shutter	Normal mode: 1/50 s Flickerless mode: 1/120 s ESC: 1/50 s to 1/30,000 s Manual: 1/50 s to 1/20,000 s
Back-light compensation	Select one of six zones
Camera titles	16 characters
Lens mount	CS (C-mount adapter supplied)
Auto-iris control	Direct drive or Video drive
Parameterisation setup	TTL or RS485 (selectable)
Dimensions (W x H x D)	60 x 48 x 110.4 mm
Power requirements	12 V _{DC} / 24 V _{AC} , 3.0 W

2GF1081-8DA

A24205-A336-B770



cameras & domes

Type

Description / Technical data

Order No.

Datasheet No.

CCBB1325-MC**1/3" DSP mono camera 580 TV lines, CCIR, 230 V_{AC}**

CCBB1325 uses the latest CCD technology and advanced digital signal processing techniques to provide crisp, aperture corrected images for surveillance applications requiring high resolution images. Great low-light sensitivity, electronic shutter, automatic gain control and back-light compensation enable this camera to operate in a wide range of lighting conditions. Features also include camera titles, fully adjustable electronic shutter and all setup is via intuitive on-screen display menus.

Pixels	752 (H) x 582 (V)
Synchronisation	Internal with crystal External mains synchronisation
Horizontal resolution	580 TV lines
Minimum illumination	0.15 Lux (F1.2, AGC On) at 50 IRE
S/N ratio	>50 dB
Gain control	5 maximum levels can be selected: OFF, 12 dB, 18 dB, 24 dB, 30 dB, 38 dB (Sens up)
Electronic shutter	Manual shutter: 1/50, 1/100, 1/250, 1/400, 1/1000, 1/2000, 1/5000, 1/10,000 s Automatic shutter: AES 1/50 to 1/100,000 s
Back-light compensation	6 zones: Centre 1, Centre 2, Doorway 1, Doorway 2, Top Half, Bot Half
Camera titles	16 characters
Lens mount	CS (C-mount adapter supplied)
Auto-iris control	Direct drive or Video drive
Dimensions (W x H x D)	70 x 58 x 117 mm
Power requirements	100 ~ 240 V _{AC} , 3.8 W

2GF1083-8DA**A24205-A336-B675****CCBB1325-LC****1/3" DSP mono camera 580 TV lines, CCIR, 12 V_{DC} / 24 V_{AC}**

As above for technical details but 12 V_{DC} or 24 V_{AC} power supply.

2GF1083-8BA**A24205-A336-B675****VCM110-230****1/3" CCD mono economy camera 400 TV lines, CCIR, 230V_{AC}**

Cost effective standard resolution camera. Reliable product with good price-performance ratio. Setup is via DIP switches

Pixels	512 (H) x 582 (V)
Horizontal resolution	400 TV lines
Minimum illumination	0.4 Lux (F1.2) at 50 IRE
S/N ratio	48 dB
Gain control	Average AGC
Electronic shutter	Automatic 1/50 s to 1/100K s
Back-light compensation	ON/OFF switchable (internal)
Lens mount	CS (C-mount adapter supplied)
Auto-iris control	Video and DC (plug supplied)
Dimensions (W x H x D)	55 x 50 x 92.5 mm
Power requirements	100~240 V _{AC} , 3.0 W

2GF1080-8CA**A24205-A335-A652****VCM110-12****1/3" CCD mono economy camera 400 TV lines, CCIR, 12 V_{DC}**

As above for technical details but 12 V_{DC}, 1.6 W power supply.

2GF1080-8CB**A24205-A335-A652**

CCBB1225-LC

**1/2" DSP mono camera 580 TV lines, CCIR, 12 V_{DC} / 24 V_{AC}**

High-resolution 1/2" monochrome camera including all features of the newest camera and chip technology with improved infra red sensitivity. Advanced features include 49-zone programmable back light compensation, wide dynamic and adjustable electronic shutter, ensuring the best images all the time. The camera includes a built-in ID system for addressing (via RS485 or TTL) and setup is via on-screen display menu, or via remote setup software. An alarm input triggers up to 4 digital images, stored in the camera and accessible remotely. Supplied with operation and parameterisation software.

Pixels	752 (H) x 582 (V)
Synchronisation	Internal oscillator / Line lock / Genlock
Horizontal resolution	580 TV lines
Minimum illumination	0.02 Lux, F1.2, AGC 20 dB (50% vid) 0.01 Lux, F1.2, AGC 20 dB (25% vid) 0.0003 Lux, F1.2, AGC 20 dB; 32x low speed shutter (25% video)
S/N ratio	>52 dB
Gain control	Switchable (ON / OFF) gain (up to 36 dB)
White balance control	Manual / auto
Electronic shutter	2x up to 400x (8 s)
Infra red wavelength	850 nm to 880 nm
Back-light compensation	Switchable (ON / OFF); 49 zones
Camera titles	24 characters
Remote setup	RS485
Lens mount	CS (C-mount adapter supplied)
Auto-iris control	Direct drive or video drive
Dimensions (W x H x D)	70 x 58 x 140mm
Power requirements	12 V _{DC} / 24 V _{AC}

colour cameras

Siemens

CCBC1320-MP

1/3" DSP colour camera 330 TV lines, PAL, 230 V_{AC}

CCBC1320 is cost effective colour camera for general surveillance applications. Auto-white balance control coupled with an automatic electronic shutter and automatic gain control ensures good quality images in normal lighting conditions. Features also include camera titles, colour to monochrome switchover and all setup is via intuitive on-screen display menus.

Pixels	500 (H) x 582 (V)
Synchronisation	Internal: with crystal External: mains synchronisation
Horizontal resolution	330 TV lines
Minimum illumination	0.4 Lux (F1.2, AGC On) at 50 IRE
S/N ratio	>50 dB
Gain control	5 maximum levels can be selected: OFF, 12 dB, 18 dB, 24 dB, 30 dB, 38 dB (Sens up)
White balance control	Auto, 2500~9500 °K, 2000~18,000 °K
Electronic shutter	Manual: 1 of 8 steps 1/50 to 1/10,000 s Auto: AES 1/50 to 1/100,000 s
Back-light compensation	Select one of six zones
Camera titles	16 characters
Lens mount	CS (C-mount adapter supplied)
Auto-iris control	Direct drive or Video drive
Dimensions (W x H x D)	70 x 58 x 117 mm
Power requirements	100 ~ 240 V _{AC} , 3.8 W

CCBC1320-LP

1/3" DSP colour camera 330 TV lines, PAL, 12 V_{DC} / 24 V_{AC}As above for technical details but 12 V_{DC} or 24 V_{AC}.

2GF1081-8EA



2GF1183-8CA

A24205-A336-B676



2GF1183-8AA

A24205-A336-B676

CCBC1315**1/3" DSP colour camera 450 TV lines, PAL, 12 Vdc / 24 VAc**

The CCBC1315 is characterised by a new type of design and a comprehensive range of functions. There is a 4x digital zoom, which can be selected locally on the camera or remotely via the integral remote control interface (TTL, RS485). In addition, remote parametrisation, including switching between colour and monochrome is possible via this interface. Installing important connections are made by spring terminals.

Pixels	752 (H) x 582 (V)
Synchronisation	Internal with crystal External with video signal Line lock over 24 VAc
Electronic zoom	4x, adjustable
Horizontal resolution	>450 TV lines
Minimum illumination	0.6 Lux (F1.0, AGC on)
S/N ratio	>48 dB, weighted
Gain control	Off / Auto (AGC), 0 ~ 24 dB
White balance control	ATW 5600 °K
Electronic shutter	Normal mode: 1/50 s Flickerless mode: 1/120 s ESC: 1/50 to 1/30,000 s Manual: 1/50 to 1/20,000 s
Back-light compensation	Select one of six zones
Camera titles	16 characters
Lens mount	CS (C-mount adapter supplied)
Auto-iris control	Direct drive or video drive
Parameterisation setup	TTL or RS485 (selectable)
Dimensions (W x H x D)	60 x 48 x 110.4 mm
Power requirements	10.8 ~ 13.2 VDC, 24 VAc, 3.0 W

2GF1181-8DA**A24205-A336-B772****CCBC1325-MP****1/3" DSP colour camera 480 TV lines, PAL, 230 VAc**

CCBC1325 is a full-featured colour camera using the latest CCD technology and advanced digital signal processing techniques to provide crisp, aperture corrected images for surveillance applications requiring high resolution images. Features also include camera titles, colour to monochrome switchover and all setup is via intuitive on-screen display menus.

Pixels	752 (H) x 582 (V)
Synchronisation	Internal: with crystal External: mains synchronisation
Horizontal resolution	480 TV lines
Minimum illumination	0.6 Lux (F1.2, AGC On) at 50 IRE
S/N ratio	>50 dB
Gain control	5 maximum levels can be selected: OFF, 12 dB, 18 dB, 24 dB, 30 dB, 38 dB (Sens up)
White balance control	Auto, 2500~9500 °K, 2000~18,000 °K
Electronic shutter	Manual: 1 of 8 steps 1/50 to 1/10'000 s Auto: AES 1/50 to 1/100,000 s
Back-light compensation	Select one of six zones
Camera titles	16 characters
Lens mount	CS (C-mount adapter supplied)
Auto-iris control	Direct drive or Video drive
Dimensions (W x H x D)	70 x 58 x 117 mm
Power requirements	100 ~ 240 VAc, 3.8 W

2GF1183-8DA**A24205-A336-B674****CCBC1325-LP****1/3" DSP colour camera 480 TV lines, PAL, 12 Vdc / 24 VAc**

As above for technical details but 12 Vdc or 24 VAc power supply.

2GF1183-8BA**A24205-A336-B674**

CCBC1225-LP

**1/2" DSP colour camera 480 TV lines, PAL, 12 Vdc / 24 Vac**

High-resolution 1/2" colour camera with advanced features including 49-zone programmable back light compensation, wide dynamic and adjustable electronic shutter, ensuring the best images all the time. The camera includes a built-in ID system for addressing (via RS485 or TTL) and setup is via on-screen display menu, or via remote setup software. An alarm input triggers up to 4 digital images, stored in the camera and accessible remotely. Supplied with operation and parameterisation software.

Pixels	752 (H) x 582 (V)
Synchronisation	Internal oscillator / Line lock / Genlock
Horizontal resolution	480 TV lines
Minimum illumination	0.4 Lux, F1.2, AGC 20 dB 0.25 Lux F1.2, max AGC 0.0125 Lux, F1.2, AGC, 20 dB, 32x low speed shutter
S/N ratio	>50 dB
Gain control	Switchable (ON / OFF) gain (up to 36 dB)
White balance control	Manual / auto
Electronic shutter	2x up to 400x (8 s)
Back-light compensation	Switchable (ON / OFF); 49 zones
Camera titles	24 characters
Remote setup	RS485
Lens mount	CS (C-mount adapter supplied)
Auto-iris control	Direct drive or video drive
Dimensions (W x H x D)	70 x 58 x 140mm
Power requirements	12 Vdc / 24 Vac

2GF1181-8EA



K505

1/3" DSP colour camera with zoom 460 TV lines, PAL, 12 Vdc

The SICOLOR DIG K505 provides live pictures in colour even with poorly illuminated scenes. The low-speed shutter function increases the light sensitivity of the camera by a factor of up to 400. Remote control via the integral data interface permits full system integration. Each camera can be individually adapted to the task by optimising the appropriate parameters. A converter module can be used for matching to the SIMATRIX protocol. The additional digital positioning functions permit certain image sections to be saved and directly selected in the camera. Parameters are set locally using keys and LEDs positioned on the side of the camera. The parameterisation menu is output on the monitor as an on-screen display (OSD). All parameters are stored in a non-volatile memory in the camera.

Pixels	500 (H) x 582 (V)
Synchronisation	Internal: with crystal External: with (C)CVS signal with or without picture contents
Horizontal resolution	460 TV lines
Electronic zoom	8x
Minimum illumination	1.0 Lux with lens iris ratio 1:1.0, AGC on
S/N ratio	>50 dB, weighted, AGC off
Gain control	0 dB to +22.5 dB, adjustable
White balance control	Auto or manual, selectable, range of adjustment 2,500 to 8,000 °K
Electronic shutter	Normal mode: 1/50 s High speed: 1/100 - 1/30K s, ESC Low speed: 1/25 - 8 s
Lens mount	CS (C-mount adapter supplied)
Auto-iris control	Direct drive or video drive
Dimensions (W x H x D)	58 x 45 x 130 mm
Power requirements	12 Vdc, 3.8 W

2GF1117-8FA

A24205-A336-B839



Siemens

CCBS1225-LP



day-night cameras

1 1/2" DSP day-night camera 480 TV lines, PAL, 12 V_{DC} / 24 V_{AC}

High resolution day-night camera with infra red sensitivity advanced digital signal processing techniques to provide crisp, high resolution, aperture corrected, low-smear images 24 hours a day. Advanced features include 49-zone programmable back light compensation, wide dynamic and adjustable electronic shutter, ensuring the best images all the time. The camera includes a built-in ID system for addressing (via RS485 or TTL) and setup is via on-screen display menu, or via remote setup software. An alarm input triggers up to 4 digital images, stored in the camera and accessible remotely. Supplied with operation and parameterisation software.

Pixels	752 (H) x 582 (V)
Synchronisation	Internal oscillator / Line lock / Genlock
Horizontal resolution	480 TV lines
Minimum illumination	Colour mode: 0.8 Lux, F1.2, AGC 20 dB; 0.0125 Lux, F1.2, AGC 20 dB, 32x low speed shutter (25% video); Mono mode: 0.02 Lux, F1.2, AGC 20 dB (50% vid); 0.0003 Lux, F1.2; AGC 20 dB; 32x low speed shutter (25% video)
S/N ratio	>50 dB
Gain control	Switchable (ON / OFF), up to 36 dB
White balance control	Manual / auto
Back-light compensation	Switchable (ON / OFF); 49 zones
Infra red wavelength	850 nm to 880 nm
Camera titles	24 characters
Remote setup	RS485
Lens mount	CS (C-mount adapter supplied)
Auto-iris control	Direct drive or video drive
Dimensions (W x H x D)	70 x 58 x 140mm
Power requirements	12 V _{DC} , 24 V _{AC} , 3 W

2GF1118-8EA



VCM511-HV

1 1/3" DSP day-night camera 480 TV lines, PAL, 230 V_{AC}

VCM511 uses the latest 1/3" EXviewHAD CCD™ from Sony and a user adjustable colour-cut threshold automatically switches the camera to monochrome operation in low light conditions. This extends the sensitivity of the camera and results in superb monochrome images when using infrared illumination. All setup adjustments are made via an on-screen display (OSD) menu. Use special day-night lens with IR cut.

Pixels	752 (H) x 582 (V)
Synchronisation	DC - Internal AC - Internal / Line-lock selectable
Horizontal resolution	480 TV lines
Minimum illumination	0.367 Lux (F1.2, 3200 °K) - colour 0.092 Lux (F1.2, 3200 °K) - mono
S/N ratio	50 dB (AGC Off)
Gain control	Auto, 0, 6, 12, 18 dB
White balance control	ATW 2750 ~ 7000 °K, indoor, outdoor, manual red & blue gain (64 steps)
Electronic shutter	Automatic or 1 of 8 steps 1/50 to 1/100K s
Back-light compensation	ON/OFF/select one of four zones
Camera titles	16 characters
Lens mount	CS (C-mount adapter supplied)
Auto-iris control	Video and DC (plug supplied)
Dimensions (W x H x D)	60 x 50 x 109 mm
Power requirements	230 V _{AC} , 5.0 W

2GF1118-8CA A24205-A336-B651



VCM511-LV

1 1/3" DSP day-night camera 480 TV lines, PAL, 12 V_{DC} / 24 V_{AC}

As above for technical details but 12 V_{DC} or 24 V_{AC}, 3.5 W supply.

2GF1118-8CB A24205-A336-B651

Siemens**camera mounts****CWCB140****Wall camera bracket 140 mm silver**

Siemens silver-coloured attractive wall mount to compliment Siemens silver-coloured cameras (CCBx series).

Installation	Wall or ceiling
Colour	Silver
Dimensions (Ø x L)	56 x 140 mm

2GF1710-8BC**A24205-A336-B640****VCM900-140****Universal camera mount 140 mm**

Easily adjusted universal camera mount suitable for wall, ceiling or shelf mounting of cameras.

Installation	Wall or ceiling
Dimensions (Ø x H)	60 x 140 mm
Finish	Epoxy powder-coat
Colour	Off-white (RAL9002)

GBQ:A538239**A24205-A336-B640****VCM900-190****Universal camera mount 190 mm**

As above for technical details but 190 mm length.

GBQ:A538226**A24205-A336-B640****CWCB210****Wall camera bracket 210 mm**

For installation of a camera without protective housing on a vertical surface.

Dimensions (Ø x L)	54 x 210 mm
Finish	Aluminium
Colour	Grey (RAL7032)
Loading capacity	Approx. 2 kg

2GF1710-8AP**A24205-A336-B640****CWCB210-310****Wall camera bracket 210-310 mm**

As above for technical details but 210-310 mm adjustable length.

2GF1710-8AQ**A24205-A336-B640****CCCB210****Ceiling camera bracket 210 mm**

For installation of a camera without protective housing on a ceiling.

Dimensions (Ø x H)	54 x 210 mm
Finish	Aluminium
Colour	Grey (RAL7032)
Loading capacity	Approx. 2 kg

2GF1710-8AR**A24205-A336-B640****CCCB210-310****Ceiling camera bracket 210-310 mm**

As above for technical details but 210-310 mm adjustable height.

2GF1710-8AS**A24205-A336-B640****VCM910-HD****Heavy-duty camera wall or ceiling mount 170 mm**







Easily adjusted heavy-duty camera mount suitable for wall or ceiling mounting of cameras.





Installation	Wall or Ceiling
Load rating	5 kg
Arm length	170 mm
Finish	Epoxy powder-coat
Colour	Off-white (RAL9002)

GBQ:A557155**A24205-A336-B640**



product overview

	Vandal resistant varifocal fixed domes			Varifocal fixed domes		
	CVVS1415-LP	CVVC1315-LP	CVVB1315-LC	CFVS1415-LP	CFVC1415-LP	CFVB1415-LP
						
	Day-Night	Colour	Mono	Day-Night	Colour	Mono
CCD size	1/4"	1/3"	1/3"	1/4"	1/3"	1/3"
TV lines	480	480	580	480	480	580
Resolution	High	High	High	High	High	High
Auto-iris lens type	2.8 ~ 5.8 mm	3 ~ 8 mm	3 ~ 8 mm	2.8 ~ 5.8 mm	3 ~ 8 mm	3 ~ 8 mm
Horizontal angle of view	35.9 ~ 74.7°	36 ~ 91°	36 ~ 91°	35.9 ~ 74.7°	38.2 ~ 76.7°	38.2 ~ 76.7°
Min. illumination (at 50IRE)	0.34 Lux (F1.4)	0.47 Lux (F1.0)	0.05 Lux (F1.0)	0.34 Lux (F1.4)	0.6 Lux (F1.4)	0.2 Lux (F1.4)
Dual power 12Vdc / 24Vac	•	•	•	•	•	•
S/N-ratio	> 50dB	> 50dB	> 50dB	> 50dB	> 50dB	> 50dB
Backlight compensation (BLC)	•	•	•	•	•	•
Colour / mono switchover	•			•		
Infrared cut filter	mechanical			mechanical		
Automatic gain control (AGC)	•	•	•	•	•	•
Electronic shutter	auto / 1/50 ~ 1/100K s	auto / 1/50 ~ 1/100K s	auto / 1/50 ~ 1/100K s	auto / 1/50 ~ 1/100K s	auto / 1/50 ~ 1/100K s	auto / 1/50 ~ 1/100K s
Phase locking synchronisation	•	•	•	•	•	•
Remote programming	•	•		•	•	
RS232 interface	•	•		•	•	
Local service monitor connector	•	•	•	•	•	•
Wall or ceiling mount	•	•	•	•	•	•
Vandal protection rating	IP66, 1000 kg	IP66, 1000 kg	IP66, 1000 kg			

	Monofocal fixed domes			
	CFFC1315-LP	CFFC1310-LP	CFFB1315-LC	CFFB1310-LC
				
	Colour	Colour	Mono	Mono
CCD size	1/3"	1/3"	1/3"	1/3"
TV lines	480	330	580	400
Resolution	High	Standard	High	Standard
Manual iris lens type	3.7 mm	3.7 mm	3.7 mm	3.7 mm
Horizontal angle of view	70°	70°	70°	70°
Min. illumination (at 50IRE)	0.56 Lux (F2.0)	0.31 Lux (F2.0)	0.2 Lux (F2.0)	0.13 Lux (F2.0)
Dual power 12Vdc / 24Vac	•	•	•	•
S/N-ratio	> 50dB	> 50dB	> 52dB	> 50dB
Backlight compensation (BLC)	•	•	•	•
Electronic shutter	auto / 1/50 ~ 1/100K s	auto / 1/50 ~ 1/100K s	auto / 1/50 ~ 1/100K s	auto / 1/50 ~ 1/100K s
Phase locking synchronisation	•	•	•	•
Automatic gain control (AGC)	•	•	•	•
Remote programming	•	•		
RS232 interface	•	•		
Local service monitor connector	•	•	•	•
Wall or ceiling mount	•	•	•	•

For the installer - what's in the box for you:

Remote setup cable

All colour and day-night domes come with an RS232 interface and vandal resistant models include a cable and software for remote setup as standard. Program all settings from a PC, save them and then upload them to other domes on the site - easy!



Local monitor setup cable

All domes come with a local monitor setup cable - when installing the dome, simply connect the cable to a portable monitor, setup the camera view, disconnect the cable and walk away...



fixed domes

Siemens

CFFB1310-LC

**1/3" mono fixed dome 400 TVL, CCIR, 12 Vdc / 24 Vac**

Attractive standard resolution ceiling-mount monochrome dome camera complete with clear protective bubble. Includes service monitor connection and cable for local easy setup. Designed for indoor applications where discreet unobtrusive surveillance is demanded.

Pixels	500 (H) x 582 (V)
Horizontal resolution	400 TVL
Bubble type	Clear
Lens	3.7 mm, F2.0
Horizontal angle of view	70°
Minimum object distance	0.2 m
Minimum illumination	0.13 Lux (F2.0 @50IRE)
S/N ratio	>50 dB
Electronic shutter (AES)	Autom. 1/50 to 1/100K s
Backlight compensation	ON or OFF
Gain control	AGC ON or OFF
Local service monitor connector	2-pin (1m cable included)
Dimensions (Ø x H)	112 x 97.5 mm
Power requirements	12 Vdc / 24 Vac, 3 W

2GF1084-8AC



CFFB1315-LC

**1/3" mono fixed dome 580 TVL, CCIR, 12 Vdc / 24 Vac**

Attractive high resolution ceiling-mount monochrome dome camera complete with clear protective bubble. Includes service monitor connection and cable for local easy setup. Designed for indoor applications where discreet unobtrusive surveillance is demanded.

Pixels	752 (H) x 582 (V)
Horizontal resolution	580 TVL
Bubble type	Clear
Lens	3.7 mm, F2.0
Horizontal angle of view	70°
Minimum object distance	0.2 m
Minimum illumination	0.2 Lux (F2.0 @50IRE)
S/N ratio	>50 dB
Electronic shutter (AES)	Autom. 1/50 to 1/100K s
Backlight compensation	ON or OFF
Gain control	AGC ON or OFF
Local service monitor connector	2-pin (1m cable included)
Dimensions (Ø x H)	112 x 97.5 mm
Power requirements	12 Vdc / 24 Vac, 3 W

2GF1084-8AA



CFFC1310-LP

**1/3" colour fixed dome 330 TVL, PAL, 12 Vdc / 24 Vac**

Attractive standard resolution ceiling-mount colour dome camera complete with clear protective bubble. Includes service monitor connection and cable for local easy setup. Designed for indoor applications where discreet unobtrusive surveillance is demanded.

Pixels	500 (H) x 582 (V)
Horizontal resolution	330 TVL
Bubble type	Clear
Lens	3.7 mm, F2.0
Horizontal angle of view	70°
Minimum object distance	0.2 m
Minimum illumination	0.31 Lux (F2.0 @50IRE)
S/N ratio	>50 dB
Electronic shutter (AES)	Autom. 1/50 to 1/100K s
Backlight compensation	ON or OFF
White balance	Automatic
Gain control	AGC ON or OFF
Remote setup	10-pin for PC connection (cable & software as an accessory)
Local service monitor connector	2-pin (1m cable included)
Dimensions (Ø x H)	112 x 97.5 mm
Power requirements	12 Vdc / 24 Vac, 3.5 W

2GF1184-8AC



cameras & domes

Type

Description / Technical data

Order No.

Datasheet No.

CFFC1315-LP

1/3" colour fixed dome 480 TVL, PAL, 12 Vdc / 24 Vac

Attractive high resolution ceiling-mount colour dome camera complete with clear protective bubble. Includes service monitor connection and cable for local easy setup. Designed for indoor applications where discreet unobtrusive surveillance is demanded.

Pixels	752 (H) x 582 (V)
Horizontal resolution	480 TVL
Bubble type	Clear
Lens	3.7 mm, F2.0
Horizontal angle of view	70°
Minimum object distance	0.2 m
Minimum illumination	0.56 Lux (F2.0 @50IRE)
S/N ratio	>50 dB
Electronic shutter (AES)	Autom. 1/50 to 1/100K s
Backlight compensation	ON or OFF
White balance	Automatic
Gain control	AGC ON or OFF
Remote setup	10-pin for PC connection (cable & software as an accessory)
Local service monitor connector	2-pin (1m cable included)
Dimensions (Ø x H)	112 x 97.5 mm
Power requirements	12 Vdc / 24 Vac, 3.5 W

2GF1184-8AA



Siemens

CFVB1415-LC



fixed domes with varifocal lens

1/4" mono fixed dome with varifocal lens 580 TVL, CCIR

Attractive high resolution monochrome dome camera for either ceiling or wall mount, complete with tinted protective bubble. The varifocal lens combined with 1/4" CCD size is the equivalent of 1/3" 3.5-8mm angle of view. Includes service monitor connection and cable for local easy setup. Designed for indoor applications where discreet unobtrusive surveillance is demanded.

Pixels	752 (H) x 582 (V)
Horizontal resolution	580 TVL
Bubble type	Tinted
Lens	2.8-5.8 mm, DD auto-iris
Maximum relative aperture	F1.4 ~ 360
Horizontal angle of view	38.2 ~ 76.7°
Minimum object distance	0.2 m
Minimum illumination	0.2 Lux (F1.4 @50IRE)
S/N ratio	>50 dB
Electronic shutter (AES)	Autom. 1/50 to 1/100K s
Backlight compensation	ON or OFF
Gain control	AGC ON or OFF
Local service monitor connector	2-pin (1m cable included)
Dimensions (Ø x H)	112 x 97.5 mm
Power requirements	12 Vdc / 24 Vac, 3 W

2GF1184-8AG



CFVC1415-LP

**1/4" colour fixed dome with varifocal lens, 480 TVL, PAL**

Attractive high resolution colour dome camera for either ceiling or wall mount, complete with tinted protective bubble. The varifocal lens combined with 1/4" CCD size is the equivalent of 1/3" 3.5-8mm angle of view. Includes service monitor connection and cable for local easy setup. Designed for indoor applications where discreet unobtrusive surveillance is demanded.

Pixels	752 (H) x 582 (V)
Horizontal resolution	480 TVL
Bubble type	Tinted
Lens	2.8-5.8 mm, DD auto-iris
Maximum relative aperture	F1.4 ~ 360
Horizontal angle of view	38.2 ~ 76.7°
Minimum object distance	0.2 m
Minimum illumination	0.6 Lux (F1.4 @50IRE)
S/N ratio	>50 dB
Electronic shutter (AES)	Autom. 1/50 to 1/100K s
Backlight compensation	ON or OFF
White balance	Automatic
Gain control	AGC ON or OFF
Remote setup	10-pin for PC connection (cable & software as an accessory)
Local service monitor connector	2-pin (1m cable included)
Dimensions (Ø x H)	112 x 97.5 mm
Power requirements	12 Vdc / 24 Vac, 3.5 W

2GF1184-8AE



CFVS1415-LP

NEW
Available Q204

1/4" day-night fixed dome with varifocal lens 480 TVL, PAL

Attractive high resolution day-night dome camera for either ceiling or wall mount, complete with tinted protective bubble. The varifocal lens combined with 1/4" CCD size is the equivalent of 1/3" 3.5-8mm angle of view. The camera has an infrared cut filter and when used with an infrared illuminator, will produce colour images by day, then as lighting levels fall, automatically switches to monochrome at night, ensuring crisp sharp images 24 hours a day. Includes service monitor connection and cable for local easy setup. Designed for indoor applications where discreet unobtrusive surveillance is demanded.

Pixels	752 (H) x 582 (V)
Horizontal resolution	480 TVL
Bubble type	Tinted
Lens	2.8~5.8 mm, DD auto-iris
Maximum relative aperture	F1.4 ~ 360
Horizontal angle of view	35.9 ~ 74.7°
Minimum object distance	0.2 m
Minimum illumination	0.34 Lux (F1.4 @50IRE) - colour 0.15 Lux (F1.4 @50IRE) - mono
Infrared cut filter	Yes
S/N ratio	>50 dB
Electronic shutter (AES)	Autom. 1/50 to 1/100K s
Backlight compensation	ON or OFF
White balance	Automatic
Gain control	AGC ON or OFF
Remote setup	10-pin for PC connection (cable & software as an accessory)
Local service monitor connector	2-pin (1m cable included)
Dimensions (Ø x H)	112 x 97.5 mm
Power requirements	12 Vdc / 24 Vac, 3 W

vandal resistant fixed domes with varifocal lens

Siemens

CVVB1315-LC

NEW
Available Q204

1/3" mono vandal resistant dome with varifocal lens 580 TVL

Attractive vandal resistant dome housing, with IP66 protection rating, including high resolution monochrome camera for either ceiling or wall mount, complete with 1000 kg impact-resistant polycarbonate protective bubble. Specifically designed to withstand the type of physical abuse and random vandalism encountered in public areas, both outdoor and indoor, and includes service monitor connection and cable for local easy setup and external anti-tamper fixing screws.

Pixels	752 (H) x 582 (V)
Horizontal resolution	580 TVL
Bubble type	Tinted
Lens	3~8 mm, DD auto-iris
Maximum relative aperture	F1.0 ~ 360
Horizontal angle of view	36 ~ 91°
Minimum object distance	0.2 m
Minimum illumination	0.05 Lux (F1.0 @50IRE)
S/N ratio	>50 dB
Electronic shutter (AES)	Autom. 1/50 to 1/100K s
Backlight compensation	ON or OFF
Gain control	AGC ON or OFF
Protection rating	IP66
Local service monitor connector	2-pin (1m cable included)
Dimensions (W x H)	140 x 112 mm
Power requirements	12 Vdc / 24 Vac, 3 W

2GF1184-8AJ



2GF1085-8AC



CVVC1315-LP**1/3" colour vandal resistant dome with varifocal lens 480 TVL**

Attractive vandal resistant dome housing, with IP66 protection rating, including high resolution colour camera for either ceiling or wall mount, complete with 1000 kg impact-resistant polycarbonate protective bubble. Specifically designed to withstand the type of physical abuse and random vandalism encountered in public areas, both outdoor and indoor, and includes service monitor connection and cable for local easy setup and external anti-tamper fixing screws. Remote setup software is included with an RS232 cable to upload and save settings (see CFFA-RS under accessories for full information).

Pixels	752 (H) x 582 (V)
Horizontal resolution	480 TVL
Bubble type	Tinted
Lens	3~8 mm, DD auto-iris
Maximum relative aperture	F1.0 ~ 360
Horizontal angle of view	36 ~ 91°
Minimum object distance	0.2 m
Minimum illumination	0.47 Lux (F1.0 @50IRE)
S/N ratio	>50 dB
Electronic shutter (AES)	Autom. 1/50 to 1/100K s
Backlight compensation	ON or OFF
White balance	Automatic
Gain control	AGC ON or OFF
Protection rating	IP66
Remote setup	10-pin for PC connection (cable & software included)
Local service monitor connector	2-pin (1m cable included)
Dimensions (W x H)	140 x 112 mm
Power requirements	12 Vdc / 24 Vac, 3.5 W

2GF1185-8AA**CVVS1415-LP****1/4" day-night vandal resistant dome with varifocal lens 480 TVL**

Attractive vandal resistant dome housing, with IP66 protection rating, including high resolution day-night camera for either ceiling or wall mount, complete with 1000 kg impact-resistant polycarbonate protective bubble. The varifocal lens combined with 1/4" CCD size is the equivalent of 1/3" 3.5-8mm angle of view. The camera has an infrared cut filter and when used with an infrared illuminator, will produce colour images by day, then as lighting levels fall, automatically switches to monochrome at night, ensuring crisp sharp images 24 hours a day. Specifically designed to withstand the type of physical abuse and random vandalism encountered in public areas, both outdoor and indoor, and includes service monitor connection and cable for local easy setup and external anti-tamper fixing screws. Remote setup software is included with an RS232 cable to upload and save settings (see CFFA-RS under accessories for full information).

Pixels	752 (H) x 582 (V)
Horizontal resolution	480 TVL
Bubble type	Tinted
Lens	2.8~5.8 mm, DD auto-iris
Maximum relative aperture	F1.4 ~ 360
Horizontal angle of view	35.9 ~ 74.7°
Minimum object distance	0.2 m
Minimum illumination	0.34 Lux (F1.4 @50IRE) - colour 0.15 Lux (F1.4 @50IRE) - mono
Infrared cut filter	Yes
S/N ratio	>50 dB
Electronic shutter (AES)	Autom. 1/50 to 1/100K s
Backlight compensation	ON or OFF
White balance	Automatic
Gain control	AGC ON or OFF
Protection rating	IP66
Impact rating	1000 kg
Remote setup	10-pin for PC connection (cable & software included)
Local service monitor connector	2-pin (1m cable included)
Dimensions (W x H)	140 x 112 mm
Power requirements	12 Vdc / 24 Vac, 3.5 W

2GF1185-8AE

fixed domes accessories

CFFA-TD

Tinted bubble for indoor fixed dome series

2GF1086-8AA

Tinted bubble for CFFB1310, CFFB1315, CFFC1310, CFFC1315 fixed focal and CFVB1415, CFVC1415, CFVS1415 internal varifocal domes.



CFFA-CD

Clear bubble for indoor fixed dome series

2GF1086-8AG

Clear bubble for CFFB1310, CFFB1315, CFFC1310, CFFC1315 fixed focal and CFVB1415, CFVC1415, CFVS1415 internal varifocal domes.



CFFA-IC29

2.9 mm Interchangeable lens for indoor fixed dome series

2GF1086-8AB

Interchangeable lens for CFFB1310, CFFB1315, CFFC1310, CFFC1315 internal fixed domes.

Focal length	2.9 mm, F2.0
Horizontal angle of view	120°
Minimum object distance	0.2 m
Packing quantity	3 pieces



CFFA-IC37

3.7 mm Interchangeable lens for indoor fixed dome series

2GF1086-8AK

As CFFA-IC29 for technical details except for the following differences:

Focal length	3.7 mm, F2.0
Horizontal angle of view	70°

CFFA-IC60

6 mm Interchangeable lens for indoor fixed dome series

2GF1086-8AF

As CFFA-IC29 for technical details except for the following differences:

Focal length	6 mm, F2.0
Horizontal angle of view	43.3°

CFFA-IC12

12 mm Interchangeable lens for indoor fixed dome series

2GF1086-8AE

As CFFA-IC29 for technical details except for the following differences:

Focal length	12 mm, F2.2
Horizontal angle of view	21.2°




CVVA-FMK

Flush mount kit for vandal resistant dome

2GF1086-8AC

Flush mount kit for CVVB1315-LC, CVVC1315-LP, CVVS1415-LP vandal resistant domes. (picture shown with dome camera)



Type	Description / Technical data	Order No.	Datasheet No.												
<div>CVVA-WB</div> <div>NEW Available Q204</div>	<div>Wall mount bracket for vandal resistant dome</div> <div>Wall mount bracket for CVVB1315-LC, CVVC1315-LP, CVVS1415-LP vandal resistant domes. (picture shown with dome camera)</div>	2GF1086-8AD													
<div>CVVA-CD</div> <div>NEW Available Q204</div>	<div>Clear bubble for vandal resistant dome series</div> <div>Clear bubble for CVVB1315-LC, CVVC1315-LP, CVVS1415-LP vandal resistant domes.</div>	2GF1086-8AH													
<div>CFFA-RS</div> <div>NEW Available Q204</div>	<div>Remote setup software and 0.5m RS232 cable for fixed domes</div> <div>All colour and day-night CFFC, CFVC, CFVS, CVVC, and CVVS fixed domes can be setup remotely. This cable plus software connects a PC to the dome via RS232 to setup the following settings:</div> <table><tr><td>AGC</td><td>0~ 30 dB (colour models) 18 ~ 30 dB(day-night models)</td></tr><tr><td>Pedestal Level</td><td>0 ~9 IRE</td></tr><tr><td>Back-light compensation</td><td>6 zones</td></tr><tr><td>Sharpness</td><td>Low / Mid / High</td></tr><tr><td>Image modes</td><td>Negative Monochrome (colour models only)</td></tr><tr><td>Settings from camera</td><td>Download / Upload</td></tr></table>	AGC	0~ 30 dB (colour models) 18 ~ 30 dB(day-night models)	Pedestal Level	0 ~9 IRE	Back-light compensation	6 zones	Sharpness	Low / Mid / High	Image modes	Negative Monochrome (colour models only)	Settings from camera	Download / Upload	2GF1086-8AJ	
AGC	0~ 30 dB (colour models) 18 ~ 30 dB(day-night models)														
Pedestal Level	0 ~9 IRE														
Back-light compensation	6 zones														
Sharpness	Low / Mid / High														
Image modes	Negative Monochrome (colour models only)														
Settings from camera	Download / Upload														



product overview

CCDA1415-DN day-night dome mounting selection chart

	CCDA1415-DN (Dome with standard base)	CCDA-IDPS (unboxed PSU 24VAC)	CCDA-ODPS (weather- proof PSU 24VAC)	CCDA-QM (4 x I/O base)	CCDA-THM (Top hat mount)	CCDA-THCB (clear bubble for top hat)	CCDA-THTB (smoked bubble for top hat)	CCDA-HCM (hard ceiling)	CCDA-FCM (fixed brack- et)	CCDA-ACM (adjustable bracket)	CCDA-IDWM (indoor wall mount)	CCDA-IDPM (pendant mount)	CCDA-WPH (weather- proof housing)
Internal ceiling mounted	✓	✓	Option	Option									
Internal hard ceiling mounted	✓	✓	Option	Option	✓	✓	Option	✓					
Internal ceiling tile mounted (standard)	✓	✓	Option	Option	✓	✓	Option		✓				
Internal ceiling tile mounted (non- standard)	✓	✓	Option	Option	✓	✓	Option			✓			
Internal wall mounted (with corner feature)	✓	✓	Option	Option							✓		
Internal Pendant	✓	✓	Option	Option								✓	
External configurations (all options same as CCDA1410-WD)	✓		✓	Option									✓

CCDA1410 colour dome mounting selection chart

	CCDA1410-ID (Dome indoor)	CCDA1410-WD (Dome in weatherproof housing)	CCDA-IDPS (unboxed PSU 24VAC)	CCDA-ODPS (weather- proof PSU 24VAC)	CCDA-SWM (short bracket)	CCDA-LWM (long bracket)	CCDA-CBA (corner adaptor)	CCDA-MBA (pole strap adaptor)	CCDA-IDPM (pendant mount indoor)	CCDA-ODPM (pendant mount outdoor)	CCDA-WPTB (smoked bubble outdoor)	CCDA-IDTB (smoked bubble indoor)
Ceiling flush mounted	✓		✓	Option								Option
Wall mounted (short)		✓		✓	✓						Option	
Wall mounted (long)		✓		✓		✓					Option	
Corner wall mounted (short) outside corner		✓		✓	✓		✓				Option	
Corner wall mounted (long) outside corner		✓		✓		✓	✓				Option	
Column mounted (short)		✓		✓	✓			✓			Option	
Column mounted (long)		✓		✓		✓		✓			Option	
Internal pendant		✓		✓					✓		Option	
External pendant		✓		✓					✓		Option	

Siemens

functional domes

CCDA1415-DN

1/4" CCD day-night indoor dome 470 TV lines, 24 V_{AC}

The CCDA1415-DN Day-night dome system brings a new dimension of feature functionality to the Siemens product range. Incorporating the latest CCD technology, the CCDA1415-DN performs well in areas where there is poor lighting. The camera includes an infrared cut filter, making it infrared sensitive when switching it from colour to mono-chrome operation - ensuring true 24 hour surveillance. The direction indicators and on-screen text will help ensure that operators do not lose their orientation. With up to 184x Zoom, other advanced features include Wide Dynamic, Privacy zones and auto-flip. This leading product is complimented and supported by a complete range of accessories that make the dome system ideal for any application.

Pixels	752 (H) x 582 (V)
Synchronisation	Line-Locked Remote V-phase adjustment
	Internal built-in sync generator
Horizontal resolution	>470 lines
Minimum illumination	0.5 Lux (AGC on) - colour
	0.009 Lux (AGC on) - mono
S/N ratio	50 dB
Gain control / White balance	Auto
Iris control	Auto
Lens	f3.6 - 82.8 mm, F1.6; aspherical
Pan/Tilt speed	1°-100°/s (scaled to zoom position)
	preset speed 280°/s
Pan travel	360° continuous
Tilt travel	>90°
Zoom	23x optical, 8x digital
Mounting	Internal (as standard),
	External (with mounting options)
Alarms	1 input; with I/O board: 4 inputs
	1 output; with I/O board: 4 outputs
Presets	96 positions
Programmable areas	16
Programmable patterns	3
Privacy zones	8
Password protection	Yes
On-screen display menus (OSD)	Yes
Dimensions (D x H)	120 x 205 mm
Power requirements	24-30 V _{AC} , 16 W (36 W in motion)
	(CCDA-IDPS power supply recommended)

2GF1191-8AA

A24205-A336-B718



CCDA1410-ID**1/4" CCD colour functional dome 450 TV lines, indoor, 24 Vac**

The CCDA1410 colour dome delivers the standard features of a programmable dome, but is priced comparably to a PTZ. This provides an alternative for customers who prefer the convenience and programmability of a dome camera, but previously considered domes to be price-prohibitive.

Choose from several innovative mounting options, including hard ceiling and adjustable ceiling brackets. As the dome contains all of the necessary install components, installation is fast - just 15 minutes from box to ceiling for the hard ceiling mount. The dome's power-on diagnostics and functional tests assist with fault isolation during install and service.

The dome accommodates a variety of protocols, including the Siemens protocol. The dome features a colour camera with 16X optical zoom and >450 TV lines resolution, providing a quality, high-resolution picture. The dome also provides user-programmable Presets and Patterns, one alarm input, an auxiliary output and auto-flip feature.

Pixels	752 (H) x 582 (V)
Synchronisation	Line-Locked Remote V-phase adjustment
	Internal built-in sync generator
Horizontal resolution	>450 lines
Minimum illumination	1.5 Lux (AGC on)
S/N ratio	48 dB
Gain control / White balance	Auto
Iris control	Auto
Lens	f4 - 64 mm, F1.4; aspherical
Pan/Tilt speed	Manual: 1° - 50° /s (based on zoom position) Preset: 100° /s
Pan travel	360° continuous
Tilt travel	>90°
Zoom	16x
Mounting	Indoor flush mount
Bubble	Clear bubble included
Alarms	1 input, 1 output
Presets	96 positions
Prog. patterns	3
Dimensions (H x D)	316 x 218 mm
Power requirements	24 - 30 VAC, 15 W (35 W in motion) (CCDA-IDPS power supply recommended)

2GF1191-8AB**CCDA1410-WD****1/4" CCD colour functional dome 450 TV lines, outdoor, 24 Vac**

Functional dome in a weatherproof outdoor housing with the same dome camera as above. Choose the corresponding mounting option. The differences to the system above are:

Mounting	Outdoor (wall, ceiling, etc.)
Protection rating	IP66
Dimensions (H x D)	302 x 244 mm
Power requirements	24 - 30 VAC, 80 W (CCDA-ODPS power supply recommended)

2GF1191-8AC

**MD-MINI DOME
III A**
1/4" CCD colour functional dome 480 TV lines, indoor, 230 VAC

The SIVIS MINI DOME SYSTEM III A combines a 1/4-inch high-performance DSP colour camera with an optical 22x zoom lens and a fast camera pan-and-tilt drive in a compact dome housing. The digital zoom function increases the optical zoom by a factor of 10. The dome includes the Super-D2 function that improves the image in difficult lighting conditions.

If tilted by more than 90°, the image would be displayed upside down. This is prevented by the autoflip function which digitally rotates the image. 50 freely-programmable positions can be accessed extremely rapidly (300° per second). When selecting a preset position, the focal length, focus, backlight compensation, dynamic gamma correction and text information are recalled simultaneously. Furthermore, one of 10 possible scene settings can be assigned to each stored position, such as e.g. masking of the white balance, AGC, shutter, autofocus and the sensitivity gain. The sensitivity gain of the camera permits the sensitivity to be increased by a factor of 32 by means of frame integration.

SIVIS MINI DOMEs are designed for indoor use, with installation in suspended ceilings being simple using the mounting accessories.

The SIVIS MINI DOME SYSTEM III can be incorporated into the SIMATRIX matrix system by the DCU 850 control module. Parameterisation is carried out using a convenient on-screen menu.

Pixels	737 (H) x 575 (V)
Synchronisation	Internal/external via power supply
Horizontal resolution	>480 lines (colour) >570 lines (mono)
Minimum illumination	2 Lux for colour 0.12 Lux for monochrome Sens-up 2x, lens iris ratio 1:1.6
S/N ratio	>50 dB (AGC off, weighted)
Gain control	Low, mid, high, Off
Electronic shutter	Off, 1 of 8 steps from 1/50 to 1/10,000 s
Iris control	Auto, manual (open-close tune)
Picture angle	Horizontal: 2.6° to 52.3° Vertical: 2.0° to 39.9°
Pan speed	Manual: 0.1°/s to 120°/s (8 stages) max. 300°/s (when positioning)
Tilt speed	300°/s
Zoom	22x; digital zoom 10x
Mounting	On a wall; in, on, underneath a ceiling indoor and outdoor
Alarms	4 inputs, 2 outputs
Presets	50 positions 10 freely-parameterizable scene settings
Dimensions (W x H x D)	190 x 191 x 190 mm
Power requirements	230 VAC, 18 W

2GF1190-8AF A24205-A336-B773

**MD-MINI DOME
III LL**
1/4" CCD colour dome 480 TV lines, low light indoor, 230 VAC

SIVIS MINI DOME III LL is designed for indoor use, this "Low Light" version is specifically suitable with dim lighting. Installation in suspended ceilings is easy using the mounting accessories.

Parameterisation is carried out using a convenient on-screen menu.

As above for technical details but with the following differences:

Minimum illumination	0.5 Lux - colour 0.03 Lux - mono Sens-up 2x, lens iris ratio 1:1.6
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2GF1190-8AF A24205-A336-B773


Siemens**dome mounts & accessories****CCDA-QM****Quick mount socket for CCDA1415-DN**

When the CCDA1415-DN is mounted using the I/O mounting base, it will support four alarm inputs and four alarm outputs.

The Quick mount socket connects/disconnects the housing/eyeball assembly in one step. The composite cables (power, communication and video) are connected to an I/O PC board in the base, so the assembly is simply twist-locked onto the base. A round spring-finger connector on the board makes electrical contact with the housing/eyeball assembly as it is connected. LED's on the I/O board verify that power and data are connected properly. Service and maintenance is extremely easy and can be accomplished - without a ladder or lift - via the Installation/Removal tool attached to a pole.

Alarm inputs 4
Alarm outputs 4

2GF1191-8BC A24205-A336-B673

**CCDA-THM****"Top Hat" ceiling housing for CCDA1415-DN**

This housing mounts directly to a ceiling or to an indoor mounting structure. It is a metal enclosure that houses the CCDA1415-DN. The dome mounting bracket (located inside the housing) has been modified for ease of cable routing.

Dimensions (W x Ø) 157 x 175 x 175 mm
Finish Galvanized steel

2GF1191-8BD A24205-A336-B673

**CCDA-THTB****Bubble smoked for CCDA-THM**

This smoked bubble is used with the CCDA-THM Top Hat housing to obscure the direction of the camera when viewing the dome.

Diameter 176 mm

2GF1191-8BE A24205-A336-B673

**CCDA-THCB****Bubble clear for CCDA-THM**

As above but with clear bubble.

2GF1191-8BF A24205-A336-B673

**CCDA-ACM****Ceiling bracket adjustable for CCDA-THM**

This bracket enables the Top Hat housing to be recessed in drop ceilings that utilise other than 2 feet (0.61 m) grids. The bracket is mounted to the Top Hat and installed in a hole cut in the ceiling. The bracket distributes the weight of the dome and the Top Hat housing across the T-bar framework of the ceiling.

Adjustable 711 - 1220 mm
Dimensions (W x H x D) 1220 (adj.) x 180 x 100 mm
Finish Galvanized steel


2GF1191-8BG A24205-A336-B673

**CCDA-FCM****Ceiling bracket fixed for CCDA-THM**

As above for technical details but with the following difference:
Dimensions (W x H x D) 632 (fixed) x 180 x 100 mm

2GF1191-8BH

cameras & domes

Type	Description / Technical data	Order No.	Datasheet No.
CCDA-HCM	Hard ceiling bracket for CCDA-THM <p>This bracket enables the Top Hat housing to be recessed in the ceiling. The bracket is mounted to the Top Hat and installed in a hole cut in the ceiling-perfect for sheet rock, plaster, or solid ceilings. The bracket can be installed entirely from below the ceiling.</p> <p>Dimensions (W x H x D) 212 x 179 x 56 mm</p> <p>Finish Galvanized steel</p>	2GF1191-8BJ	A24205-A336-B673
			
CCDA-IDPM	Pendant mount indoor for CCDA1415-DN <p>The CCDA-IDPM indoor ceiling pendant mount is a perfect solution for wood, metal, plaster, drywall, or other hard ceiling installation. This mounting assembly includes both a ceiling flange and a pendant base. The pendant base is attached to any standard 1¼-inch NTP threaded pipe or rigid conduit up to 3 metres (10 feet) in length. This assembly can be used in beam/pendant installations. This indoor ceiling mount is compatible with CCDA1415-DN.</p> <p>Dimensions (W x H x D) 120 x 115 x 120 mm</p> <p>Finish Powder coated, aluminum and ABS plastic</p>	2GF1191-8BK	A24205-A336-B673
			
CCDA-IDWM	Wall bracket indoor for CCDA1415-DN <p>This mounting attaches directly to a flat wall, inside corner, or outside corner. As standard, the colour is white, but it can be painted to match decor. The Top Hat housing cannot be used with this mounting structure.</p> <p>Dimensions (W x H x D) 101 x 224 x 201 mm (with dome installed)</p> <p>Finish Galvanized steel</p>	2GF1191-8BL	A24205-A336-B673
			
CCDA-SWM	Wall mount bracket short for CCDA-WPH & CCDA1410-WD <p>The short wall mount attaches directly to a flat wall. Its compact design with mounting cover hides the mounting plate to provide a clean and aesthetically pleasing appearance. It also offers a concealed feed through for easy routing of all cables. When used with the CCDA-CBA corner bracket adapter or CCDA-MBA pole strap adapter, this short wall mount can be fixed to outside corners as well as poles. The end cap assembly is included in the mounting kit. The short wall mount is compatible with the CCDA-WPH Outdoor Housing.</p> <p>Boom 127 mm</p> <p>Dimensions (W x H x D) 218 x 366 x 282 mm (with dome installed)</p> <p>Finish Powder coated aluminium, ABS plastic, fibre filled PVC</p>	2GF1191-8BM	A24205-A336-B673
			
CCDA-LWM	Wall mount bracket long CCDA-WPH & CCDA1410-WD <p>The long wall mount attaches directly to a flat wall. This mounting structure positions the dome away from the wall, enabling it to see over awnings, soffits and landscaping in outdoor applications or over furniture, shelving, and displays in indoor applications. The long wall mount has a mounting cover and cable feed through to ensure a clean installation. When used with the CCDA-CBA corner bracket adapter or CCDA-MBA pole strap adapter, this mount can be affixed to outside corners as well as poles. The end cap assembly is included in the mounting kit. The long wall mount is compatible with the CCDA-WPH Outdoor Housing.</p> <p>Boom 432 mm</p> <p>Dimensions (W x H x D) 218 x 366 x 587 mm (with dome installed)</p> <p>Finish Powder coated aluminium, ABS plastic, fibre filled PVC</p>	2GF1191-8BN	A24205-A336-B673
			

CCDA-ODPM**Pendant mount for CCDA-WPH & CCDA1410-WD**

The CCDA-ODPM outdoor pendant mount allows an outdoor dome/housing to be suspended from an outdoor ceiling or horizontal surface. It can be installed using either 1¼-inch NPT threaded pipe or rigid conduit, either new or existing, up to 3 metres (10 feet) in length. The pendant mount is compatible with the CCDA-WPH Outdoor Housing.

Dimensions (W x H x D)	115 x 120 x 120 mm (with dome installed)
Finish	Powder coated aluminium, ABS plastic

2GF1191-8BP**A24205-A336-B673****CCDA-MBA****Pole strap adapter for CCDA-SWM & CCDA-LWM**

The CCDA-MBA pole strap adapter enables the long and short wall mounts to attach to any pole. This option contains stainless steel straps that can be easily daisy chained to accommodate any size pole.

Dimensions (W x H x D)	80 x 138 x 30 mm
Finish	Powder coated aluminium, stainless steel.

2GF1191-8BQ**A24205-A336-B673****CCDA-CBA****Corner bracket adapter for CCDA-SWM & CCDA-LWM**

The corner bracket adapter enables both versions of wall mounts, CCDA-LWM (long) and CCDA-SWM (short), to affix to outside corners. Its powder coated aluminium construction ensures stable installations.

Dimensions (W x H x D)	210 x 185 x 125 mm
Finish	Powder coated aluminium

2GF1191-8BR**A24205-A336-B673****CCDA-WPH****Dome outdoor housing for CCDA1415-DN**

This is an outdoor housing which allows the CCDA1415-DN to be mounted outside. Complete with heater and fan, the unit is weather-proof to IP66. With clear bubble.

Protection rating	IP66
Colour	White
Power requirements	24 - 36 VAC, 80 W
Dimensions (W x H x D)	244 x 321 x 244 mm

2GF1191-8BS**A24205-A336-B673****CCDA-WPTB****Bubble smoked for CCDA1410-WD and CCDA-WPH**

Smoked bubble for CCDA1410-WD and CCDA-WPH outdoor housing.

Diameter	244 mm
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2GF1191-8BT**A24205-A336-B673****CCDA-IDTB****Bubble smoked for CCDA1410-ID**

Smoked bubble for CCDA1410-ID, indoor colour dome.




Diameter	218 mm
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2GF1191-8BU**A24205-A336-B673**

cameras & domes

Type	Description / Technical data	Order No.	Datasheet No.
CCDA-IDPS	Power supply 24 Vac for indoor CCDA domes Unboxed power supply for CCDA domes. Suitable for internal installations. Input voltage 100 - 120 VAC, 230 VAC Output voltage 24 VAC, 45 W	2GF1191-8BA	A24205-A336-B673
			
CCDA-ODPS	Weatherproof power supply for CCDA domes This unit allows the installation cabling to be completed in preparation for final installation of the camera and accessories at a later date. Features service power socket for test equipment or soldering tool, overvoltage protection, fuse protection, BNC termination and telemetry termination. To be used in combination with CCDA1410-WD & CCDA-WPH outdoor housings. Input voltage 100 - 120 VAC, 230 VAC Output voltage 24 VAC, 100 W	2GF1191-8CA	A24205-A336-B673
CCDA-ODPSSP	Weatherproof power supply for CCDA domes, extra spaces As above for technical details but with extra space for the addition of fibre optic or two-wire transmission modules.	2GF1191-8CB	
DCU850	Control module for MINI DOME domes/keyboards Permits parameterisation and control of the SIVIS MINI DOME SYSTEM III in the video matrix system. Power requirements 12 VDC, 1.2 W	2GF1190-8AG	
			
MD-SCF	Suspended ceiling fixture for MINI DOME For mounting of the SIVIS MINI DOME SYSTEM III on a suspended ceiling. (Dome not included).	2GF1190-8BA	
			
MD-CFE	Ceiling fixture embedded for MINI DOME For SIVIS MINI DOME SYSTEM III flush mounting in a suspended ceiling. (Dome not included).	2GF1190-8BB	
			
MD-CFS	Ceiling fixture suspended for MINI DOME For SIVIS MINI DOME SYSTEM III for separate mounting underneath a ceiling. (Dome not included).	2GF1190-8BH	
			

cameras & domes

Type	Description / Technical data	Order No.	Datasheet No.
MD-WF	Wall fixture for MINI DOME For SIVIS MINI DOME SYSTEM III for mounting on a wall. (Dome not included).	2GF1190-8BJ	
MD-SDC	Smoked dome cover for MINI DOME As replacement for clear dome of SIVIS MINI DOME SYSTEM III.	2GF1190-8BK	
MD-MFD	Mirror-foiled dome cover for MINI DOME As above but mirror-foiled.	2GF1190-8BL	
MD-TDC	Tinted dome cover for MINI DOME As above but tinted.	2GF1190-8BM	

Siemens**VCD320-12****combined camera and working PIR****1/3" CCD colour camera inside functioning PIR detector, 12 V_{DC}**

The discreet high quality camera with a working PIR in a standard Siemens detector housing is suitable for installations requiring CCTV surveillance and reliable motion detection. The detection range of the PIR has the same surveillance range as the camera - ideal for remote transmission systems. A wall mounting bracket is included.

Pixels	597 (H) x 537 (V)
Synchronisation	Internal / external
Horizontal resolution	>380 TV lines
Minimum illumination	1.2 Lux (F2.0) at 50 IRE
S/N ratio	52 dB (min) 60 dB (AGC Off)
Gain control	Automatic
White balance control	Automatic
Electronic shutter	Auto (1/50 to 1/120000 s)
Back-light compensation	Automatic
Iris control	Auto-electronic shutter
Optical System	black infrared mirror 12 m / 52 zones
Alarm output contact rating	NO or NC, 30 V _{DC} , 100 mA
Tamper output contact rating	30 V _{DC} / 100 mA
Sensitivity evaluation mode	3 settings
Protection rating	IP41
Dimensions (W x H x D)	50 x 115 x 65 mm
Power requirements	12 V _{DC}

2GF1182-8EA

A24205-A336-B674

**VCD120-12****1/3" CCD mono camera inside functioning PIR detector, 12 V_{DC}**

As above, but monochrome and with the following differences:

Pixels	592 (H) x 542 (V)
Horizontal resolution	>420 TV lines
Minimum illumination	0.8 Lux (F2.0) at 50 IRE
Back-light compensation	None
S/N ratio	>45 dB

2GF1082-8EA

A24205-A336-B674

IRMC104**Pet clip for VCD320-12 and VCD120-12**

Mirror clip for outstanding pet immunity. Averts fault alarms caused by pets.

Max. pet weight	Up to 10 kg
Packing quantity	4 pieces

2GF1182-8EC

**IRUM30****Ceiling mount bracket for VCD320-12 and VCD120-12**

With the IRUM30, the detector can be swivelled into special positions for ceiling mounting applications.

Angle range:	
- vertical	+10 ~ -15°
- horizontal	+45 ~ -45°

2GF1182-8EB



Siemens

camera accessories

RS232-485

Interface converter RS232C / RS485

Interface converter from RS232 to RS485. - including plug-type power supply unit. A 9 pin cable with contact socket on both ends for connection between PC parameterisation software and camera is also supplied.

Compatible with
CCBB1315, CCBC1315
CCBB1225, CCBC1225, CCBS1225
SIMATRIX

2GF1117-8BC



CAC0101

Converter TTY to TTL

Converts TTY interface signals to TTL signals. Used for connecting a camera to a TTY network. Mounted inside the camera housing, screwed on the top of the camera.

Compatible with
K505
CCBB1315, CCBC1315

Connections
Terminals

Baud rate
2400 bits/s (8, 1, E)

Power supply
10.8 - 13.2 Vdc, max. 1 W

Dimensions (W x H x D)
112 x 23/32 x 60 mm

2GF5505-8BA



CAC0102

Converter RS485 to TTL

Converts TTL interface signals to RS485 interface signals. Used for connecting a K505 camera to an RS485 network. Mounted inside the camera housing, screwed on the top of the camera.

Compatible with
K505
CCBB1315, CCBC1315

Connections
Terminals

Baud rate
2400 bits/s (8, 1, E)

Power supply
10.8 - 13.2 Vdc, max. 1 W

Dimensions (W x H x D)
112 x 23/32 x 60 mm

2GF5505-8BB



PS-K505

Operation & parameterisation software for camera K505

3½-inch diskette for Microsoft Windows 3.11/95/98/NT, including RS232C-TTL interface cable, for connection to the PC.

2GF1117-8FB

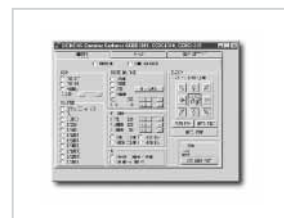




PS-CCBx131x

Operation & parameterisation software for CCBx1315 cameras

Setup and parameterisation software for Siemens cameras CCBB1315 and CCBC1315. Supplied on 3½" diskette, including RS232C-TTL interface cable for PC, for Windows 95 & 98.

2GF1181-8DB



Type	Description / Technical data	Order No.	Datasheet No.
PSU230-12	Power supply unit for 12 V_{DC} cameras Step-down power supply, intended for 12 V _{DC} cameras. Supplied with 2 m DC cable. Input voltage 230 V _{AC} , 640 mA Output voltage 12 V _{DC} Number of Pins 2	2GF1800-8BE	
PSU230-24	Power supply unit for 24 V_{AC} cameras Step-down power supply, intended for 24 V _{AC} cameras. Supplied with 2 m AC cable. Input voltage 230 V _{AC} , 300 mA Output voltage 24 V _{AC}	2GF1800-8BG	
CTM2100-DC	Coax power supply for 12 V_{DC} cameras The DC Coax Transmission System CTM2100-DC transmits both real-time video/audio signals and the 12 V _{DC} power supply of the video camera on just one coaxial cable. The system compensates transmission losses at distances up to approx. 200 m (with coaxial cable type RG59). The transmitter and receiver units are each accommodated in an enclosed housing and secured on a mounting plate. The components can be mounted close to the camera (e.g. false ceiling) or in the control centre (e.g. central cabinet) using the supplied material. Video standard PAL 500 lines Transmission link Up to approx. 200 m (with RG59) Receiver unit Control input: 18 - 27 V _{DC} Dimensions: 62 x 50 x 19 mm Transmitter unit Output voltage 12 V _{DC} , max. 0.5 A Dimensions: 62 x 50 x 19 mm Switched mode power unit Power input: 100 - 240 V _{AC} Output: 15 - 27 V _{DC} Dimensions: 126 x 45 x 36 mm	2GF1800-8BH	A24205-A336-B733 
WJB-12	Weatherproof junction box IP65 12 V_{DC} For compact cameras, as transition-, junction- and distribution box. With mains connection, 2x3 power clips for control lines and video test connector (BNC), fitted in a weatherproof plastic housing. Connections 6 (2 x 3) BNC junction connections Protective rating IP65	2GF1803-8AC	

Siemens

fixed focal length lenses

CLFM1314/2.8

2.8 mm F1.4, 1/3" CS, manual iris

CS-mount lens with high-performance glass optics. Professional, metal bodied lenses with screw locks to ensure images remain sharply focused. Metal thread ensures secure mounting to camera.

Format	1/3" CS-mount
Focal length	2.8 mm
Focus type	manually adjustable
Maximum relative aperture	F1.4
Horizontal angle of view	95.6°
Minimum object distance	0.2 m

2GF1661-8AL

A24205-A336-B650



CLFM1312/4

4.0 mm F1.2, 1/3" CS, manual iris

CS-mount lens with high-performance glass optics. Professional, metal bodied lenses with screw locks to ensure images remain sharply focused. Metal thread ensures secure mounting to camera.

Format	1/3" CS-mount
Focal length	4.0 mm
Focus type	manually adjustable
Maximum relative aperture	F1.2
Horizontal angle of view	70.6°
Minimum object distance	0.25 m

2GF1661-8AM

A24205-A336-B650



CLFM1312/6

6.0 mm F1.2, 1/3" CS, manual iris

CS-mount lens with high-performance glass optics. Professional, metal bodied lenses with screw locks to ensure images remain sharply focused. Metal thread ensures secure mounting to camera.

Format	1/3" CS-mount
Focal length	6.0 mm
Focus type	manually adjustable
Maximum relative aperture	F1.2
Horizontal angle of view	48.1°
Minimum object distance	0.3 m

2GF1661-8AN

A24205-A336-B650



CLFM1312/8

8.0 mm F1.2, 1/3" CS, manual iris

CS-mount lens with high-performance glass optics. Professional, metal bodied lenses with screw locks to ensure images remain sharply focused. Metal thread ensures secure mounting to camera.

Format	1/3" CS-mount
Focal length	8.0 mm
Focus type	manually adjustable
Maximum relative aperture	F1.2
Horizontal angle of view	36.5°
Minimum object distance	0.3 m

2GF1661-8AP

A24205-A336-B650



CLFM1212/12

12.0 mm F1.2, 1/2" C, manual iris

C-mount lens with high-performance glass optics. Professional, metal bodied lenses with metal thread to ensure secure mounting to camera.

Format	1/2" C-mount
Focal length	12.0 mm
Focus type	manually adjustable
Maximum relative aperture	F1.2
Horizontal angle of view	29.7°
Minimum object distance	0.3 m

2GF1640-8AH

A24205-A336-B650













Type	Description / Technical data	Order No.	Datasheet No.
CLFM1316/16	16.0 mm F1.6, 1/3" CS, manual iris <p>CS-mount lens with high-performance glass optics. Professional, metal bodied lenses with screw locks to ensure images remain sharply focused. Metal thread ensures secure mounting to camera.</p> <p>Format 1/3" CS-mount Focal length 16.0 mm Focus type manually adjustable Maximum relative aperture F1.6 Horizontal angle of view 17.6° Minimum object distance 0.7 m</p>	2GF1661-8AQ	A24205-A336-B650
CLFD1314/2.8	2.8 mm F1.4, 1/3" CS, DD auto-iris <p>CS-mount lens with high-performance glass optics, galvanometric direct drive auto-iris mechanism and ND spot-filter - ideal for outdoor applications. Screw lock ensure images remain sharply focused. Metal thread ensures secure mounting to camera. Supplied with fitted plug.</p> <p>Format 1/3" CS-mount Focal length 2.8 mm Focus type manually adjustable Maximum relative aperture F1.4 Horizontal angle of view 95.6° Minimum object distance 0.2 m</p>	2GF1663-8AN	A24205-A336-B650
CLFD1312/4	4.0 mm F1.2, 1/3" CS, DD auto-iris <p>CS-mount lens with high-performance glass optics, galvanometric direct drive auto-iris mechanism and ND spot-filter - ideal for outdoor applications. Screw lock ensure images remain sharply focused. Metal thread ensures secure mounting to camera. Supplied with fitted plug.</p> <p>Format 1/3" CS-mount Focal length 4.0 mm Focus type manually adjustable Maximum relative aperture F1.2 Horizontal angle of view 70.6° Minimum object distance 0.25 m</p>	2GF1663-8AP	A24205-A336-B650
CLFD1312/6	6.0 mm F1.2, 1/3" CS, DD auto-iris <p>CS-mount lens with high-performance glass optics, galvanometric direct drive auto-iris mechanism and ND spot-filter - ideal for outdoor applications. Screw lock ensure images remain sharply focused. Metal thread ensures secure mounting to camera. Supplied with fitted plug.</p> <p>Format 1/3" CS-mount Focal length 6.0 mm Focus type manually adjustable Maximum relative aperture F1.2 Horizontal angle of view 48.1° Minimum object distance 0.3 m</p>	2GF1663-8AQ	A24205-A336-B650
CLFD1312/8	8.0 mm F1.2, 1/3" CS, DD auto-iris <p>CS-mount lens with high-performance glass optics, galvanometric direct drive auto-iris mechanism and ND spot-filter - ideal for outdoor applications. Screw lock ensure images remain sharply focused. Metal thread ensures secure mounting to camera. Supplied with fitted plug.</p> <p>Format 1/3" CS-mount Focal length 8.0 mm Focus type manually adjustable Maximum relative aperture F1.2 Horizontal angle of view 36.5° Minimum object distance 0.3 m</p>	2GF1663-8AR	A24205-A336-B650



Type	Description / Technical data	Order No.	Datasheet No.
CLFD1214/12	12.0 mm F1.4, 1/2" CS, DD auto-iris CS-mount lens with high-performance glass optics, galvanometric direct drive auto-iris mechanism and ND spot-filter - ideal for outdoor applications. Screw lock ensure images remain sharply focused. Metal thread ensures secure mounting to camera. Supplied with fitted plug. Format 1/2" CS-mount Focal length 12.0 mm Focus type manually adjustable Maximum relative aperture F1.4 Horizontal angle of view 29.7° Minimum object distance 0.2 m	2GF1642-8AT	A24205-A336-B650
CLFD1316/16	16.0 mm F1.6, 1/3" CS, DD auto-iris CS-mount lens with high-performance glass optics, galvanometric direct drive auto-iris mechanism and ND spot-filter - ideal for outdoor applications. Screw lock ensure images remain sharply focused. Metal thread ensures secure mounting to camera. Supplied with fitted plug. Format 1/3" CS-mount Focal length 16.0 mm Focus type manually adjustable Maximum relative aperture F1.6 Horizontal angle of view 17.6° Minimum object distance 0.7 m	2GF1663-8AS	A24205-A336-B650
Pentax			
C70210HK	2.8 mm F1.2, 1/3" CS, DD auto-iris CS-mount lens with high performances glass optics, one lens element is made of plastic. Includes direct drive auto-iris mechanism and ND spot-filter. Supplied with fitted plug. Format 1/3" CS-mount Focal length 2.8 mm Focus type manually adjustable Maximum relative aperture F1.2 Horizontal angle of view 94.3° Minimum object distance 0.3 m	2GF1663-8AG	
C70406HK	4.0 mm F1.2, 1/3" CS, DD auto-iris CS-mount lens with high performances glass optics, direct drive auto-iris mechanism and ND spot-filter. Supplied with fitted plug. Format 1/3" CS-mount Focal length 4 mm Focus type manually adjustable Maximum relative aperture F1.2 Horizontal angle of view 63.9° Minimum object distance 0.3 m	2GF1663-8AB	
C70804HK	8.0 mm F1.2, 1/3" CS, DD auto-iris CS-mount lens with high performances glass optics, direct drive auto-iris mechanism and ND spot-filter. Supplied with fitted plug. Format 1/3" CS-mount Focal length 8.0 mm Focus type manually adjustable Maximum relative aperture F1.2 Horizontal angle of view 33.3° Minimum object distance 0.3 m	2GF1663-8AC	



Type	Description / Technical data	Order No.	Datasheet No.
Pentax			
C30821SN	8.0 mm F1.4, 2/3" C, DD auto-iris, IR coated C-mount lens with high performances glass optics, direct drive auto-iris mechanism and ND spot-filter. Coated for infrared wavelengths (850 nm). Supplied with fitted plug. Format 2/3" C-mount Focal length 8.0 mm Focus type manually adjustable Maximum relative aperture F1.4 Horizontal angle of view 58.2° Minimum object distance 0.2 m Infrared coating Yes	2GF1601-8AA	
C31632HK	16.0 mm F1.4, 2/3" C, DD auto-iris C-mount lens with high performances glass optics, direct drive auto-iris mechanism and ND spot-filter. Supplied with fitted plug. Format 2/3" C-mount Focal length 16.0 mm Focus type manually adjustable Maximum relative aperture F1.4 Horizontal angle of view 30.7° Minimum object distance 0.5 m	2GF1601-8AB	
C31632SN	16.0 mm F1.4, 2/3" C, DD auto-iris, IR coated As above for technical details but coated for infrared wavelengths (850 nm).	2GF1601-8AC	
C60309HK	3.7 mm F1.6, 1/2" CS, DD auto-iris CS-mount lens with high performances glass optics, direct drive auto-iris mechanism and ND spot-filter. Supplied with fitted plug. Format 1/2" CS-mount Focal length 3.7 mm Focus type manually adjustable Maximum relative aperture F1.6 Horizontal angle of view 94.8° Minimum object distance 0.2 m	2GF1642-8AN	
C60630HK	6.0 mm F1.4, 1/2" CS, DD auto-iris CS-mount lens with high performances glass optics, direct drive auto-iris mechanism and ND spot-filter. Supplied with fitted plug. Format 1/2" CS-mount Focal length 6.0 mm Focus type manually adjustable Maximum relative aperture F1.4 Horizontal angle of view 58.2° Minimum object distance 0.2 m	2GF1642-8AP	

Type	Description / Technical data	Order No.	Datasheet No.
C60625SN	6.0 mm F1.2, 1/2" C, DD auto-iris, IR coated C-mount lens with high performances glass optics, direct drive auto-iris mechanism and ND spot-filter. Coated for infrared wavelengths (850 nm). Supplied with fitted plug. Format 1/2" C-mount Focal length 6.0 mm Focus type manually adjustable Maximum relative aperture F1.2 Horizontal angle of view 58.0° Minimum object distance 0.2 m Infrared coating Yes	2GF1642-8AQ	
C61227HK	12.0 mm F1.4, 1/2" CS, DD auto-iris CS-mount lens with high performances glass optics, direct drive auto-iris mechanism and ND spot-filter. Supplied with fitted plug. Format 1/2" CS-mount Focal length 12.0 mm Focus type manually adjustable Maximum relative aperture F1.4 Horizontal angle of view 30.2° Minimum object distance 0.5 m	2GF1642-8AR	
C61220SN	12.0 mm F1.2, 1/2" C, DD auto-iris, IR coated C-mount lens with high performances glass optics, direct drive auto-iris mechanism and ND spot-filter. Coated for infrared wavelengths (850 nm). Supplied with fitted plug. Format 1/2" C-mount Focal length 12.0 mm Focus type manually adjustable Maximum relative aperture F1.2 Horizontal angle of view 30.2° Minimum object distance 0.3 m Infrared coating Yes	2GF1642-8AS	
C22527HK	25.0 mm F1.4, 1" C, DD auto-iris C-mount lens with high performances glass optics, direct drive auto-iris mechanism and ND spot-filter. Supplied with fitted plug. Format 1" C-mount Focal length 25.0 mm Focus type manually adjustable Maximum relative aperture F1.4 Horizontal angle of view 29.3° Minimum object distance 0.9 m	2GF1621-8AA	
C22527SN	25.0 mm F1.4, 1" C, DD auto-iris, IR coated As above for technical details but coated for infrared wavelengths (850 nm).	2GF1621-8AB	

varifocal length lenses

Siemens

CLVM1314/2.5-10 2.5 ~ 10 mm F1.4, 1/3" CS, aspherical, varifocal, manual iris

CS-mount lens with aspherical glass optics for compact size. Professional, high performance optics with focal length and focus adjustments having screw-locks to ensure views remain as initially set. Metal thread ensures secure mounting to camera.

Format	1/3" CS-mount
Focal length	2.5 ~ 10 mm
Focus type	manually adjustable
Maximum relative aperture	F1.4
Horizontal angle of view	28.3 ~ 105.8°
Minimum object distance	0.3 m

Format	1/3" CS-mount
Focal length	2.5 ~ 10 mm
Focus type	manually adjustable
Maximum relative aperture	F1.4
Horizontal angle of view	28.3 ~ 105.8°
Minimum object distance	0.3 m

2GF1664-8AK A24205-A336-B649

**CLVM1314/3.5-8 3.5 ~ 8 mm F1.4, 1/3" CS, varifocal, manual iris**

CS-mount varifocal lens with high-performance glass optics. Professional, metal bodied lens with focal length and focus adjustments having screw-locks to ensure views remain as initially set. Metal thread ensures secure mounting to camera.

Format	1/3" CS-mount
Focal length	3.5 ~ 8 mm
Focus type	manually adjustable
Maximum relative aperture	F1.4
Horizontal angle of view	35 ~ 73.8°
Minimum object distance	0.3 m

2GF1664-8AG A24205-A336-B649

**CLVM1316/5.5-33 5.5 ~ 33 mm F1.6, 1/3" CS, aspherical, varifocal, manual iris**

CS-mount varifocal lens with high-performance aspherical glass optics for compact size. Professional, metal bodied lens with focal length and focus adjustments having screw-locks to ensure views remain as initially set. Metal thread ensures secure mounting to camera.

Format	1/3" CS-mount
Focal length	5.5 ~ 33 mm
Focus type	manually adjustable
Aperture	F1.6
Horizontal angle of view	8.7 ~ 50.1°
Minimum object distance	0.3 m

2GF1664-8AH A24205-A336-B649

**CLVM1318/7-70 7 ~ 70 mm F1.8, 1/3" CS, varifocal, manual iris**

CS-mount varifocal lens with high-performance glass optics. Professional, metal bodied lens with focal length and focus adjustments having screw-locks to ensure views remain as initially set. Metal thread ensures secure mounting to camera.

Format	1/3" CS-mount
Focal length	7 ~ 70 mm
Focus type	manually adjustable
Maximum relative aperture	F1.8
Horizontal angle of view	4.2 ~ 40.1°
Minimum object distance	0.3 ~ 1.0 m

2GF1664-8AJ A24205-A336-B649

**CLVD1314/2.5-10 2.5 ~ 10 mm F1.4, 1/3" CS, aspherical, varifocal, DD auto-iris**







CS-mount lens with aspherical glass optics for compact size, galvanometric direct drive auto-iris mechanism and ND spot-filter - ideal for outdoor applications. Focal length and focus adjustments have screw-locks to ensure views remain as initially set. Metal thread ensures secure mounting to camera. Supplied with fitted plug.

Format	1/3" CS-mount
Focal length	2.5 ~ 10 mm
Focus type	manually adjustable
Aperture	F1.4 ~ 360
Horizontal angle of view	28.3 ~ 105.8°
Minimum object distance	0.3 m

2GF1667-8AM A24205-A336-B649



Type	Description / Technical data	Order No.	Datasheet No.												
CLVD1314/3.5-8	<div><div>NEW Available NOW</div><div>3.5 ~ 8 mm F1.4, 1/3" CS, varifocal, DD auto-iris CS-mount lens with high-performance glass optics, galvanometric direct drive auto-iris mechanism and ND spot-filter - ideal for outdoor applications. Focal length and focus adjustments have screw-locks to ensure views remain as initially set. Metal thread ensures secure mounting to camera. Supplied with fitted plug. <table><tr><td>Format</td><td>1/3" CS-mount</td></tr><tr><td>Focal length</td><td>3.5 ~ 8 mm</td></tr><tr><td>Focus type</td><td>manually adjustable</td></tr><tr><td>Aperture</td><td>F1.4 ~ 360</td></tr><tr><td>Horizontal angle of view</td><td>35 ~ 73.8°</td></tr><tr><td>Minimum object distance</td><td>0.3 m</td></tr></table></div></div>	Format	1/3" CS-mount	Focal length	3.5 ~ 8 mm	Focus type	manually adjustable	Aperture	F1.4 ~ 360	Horizontal angle of view	35 ~ 73.8°	Minimum object distance	0.3 m	2GF1667-8AJ	A24205-A336-B649
Format	1/3" CS-mount														
Focal length	3.5 ~ 8 mm														
Focus type	manually adjustable														
Aperture	F1.4 ~ 360														
Horizontal angle of view	35 ~ 73.8°														
Minimum object distance	0.3 m														
CLVD1316/5.5-33	<div><div>NEW Available NOW</div><div>5.5 ~ 33 mm F1.6, 1/3" CS, aspherical, varifocal, DD auto-iris CS-mount lens with aspherical glass optics for compact size, galvanometric direct drive auto-iris mechanism and ND spot-filter - ideal for outdoor applications. Focal length and focus adjustments have screw-locks to ensure views remain as initially set. Metal thread ensures secure mounting to camera. Supplied with fitted plug. <table><tr><td>Format</td><td>1/3" CS-mount</td></tr><tr><td>Focal length</td><td>5.5 ~ 33 mm</td></tr><tr><td>Focus type</td><td>manually adjustable</td></tr><tr><td>Aperture</td><td>F1.6 ~ 360</td></tr><tr><td>Horizontal angle of view</td><td>8.7 ~ 50.1°</td></tr><tr><td>Minimum object distance</td><td>0.3 m</td></tr></table></div></div>	Format	1/3" CS-mount	Focal length	5.5 ~ 33 mm	Focus type	manually adjustable	Aperture	F1.6 ~ 360	Horizontal angle of view	8.7 ~ 50.1°	Minimum object distance	0.3 m	2GF1667-8AK	A24205-A336-B649
Format	1/3" CS-mount														
Focal length	5.5 ~ 33 mm														
Focus type	manually adjustable														
Aperture	F1.6 ~ 360														
Horizontal angle of view	8.7 ~ 50.1°														
Minimum object distance	0.3 m														
CLVD1318/7-70	<div><div>NEW Available NOW</div><div>7 ~ 70 mm F1.8, 1/3" CS, varifocal, DD auto-iris CS-mount lens with high-performance glass optics, galvanometric direct drive auto-iris mechanism and ND spot-filter - ideal for outdoor applications. Focal length and focus adjustments have screw-locks to ensure views remain as initially set. Metal thread ensures secure mounting to camera. Supplied with fitted plug. <table><tr><td>Format</td><td>1/3" CS-mount</td></tr><tr><td>Focal length</td><td>7 ~ 70 mm</td></tr><tr><td>Focus type</td><td>manually adjustable</td></tr><tr><td>Aperture</td><td>F1.8 ~ 360</td></tr><tr><td>Horizontal angle of view</td><td>4.2 ~ 40.1°</td></tr><tr><td>Minimum object distance</td><td>0.3 ~ 1.0 m</td></tr></table></div></div>	Format	1/3" CS-mount	Focal length	7 ~ 70 mm	Focus type	manually adjustable	Aperture	F1.8 ~ 360	Horizontal angle of view	4.2 ~ 40.1°	Minimum object distance	0.3 ~ 1.0 m	2GF1667-8AL	A24205-A336-B649
Format	1/3" CS-mount														
Focal length	7 ~ 70 mm														
Focus type	manually adjustable														
Aperture	F1.8 ~ 360														
Horizontal angle of view	4.2 ~ 40.1°														
Minimum object distance	0.3 ~ 1.0 m														
Pentax															
C70213	<div><div>2.8 ~ 6 mm F1.4, 1/3" CS, varifocal, manual iris CS-mount varifocal lens with manual focus and high-performance glass optics. <table><tr><td>Format</td><td>1/3" CS-mount</td></tr><tr><td>Focal length</td><td>2.8 ~ 6 mm</td></tr><tr><td>Focus type</td><td>manually adjustable</td></tr><tr><td>Maximum relative aperture</td><td>F1.4</td></tr><tr><td>Horizontal angle of view</td><td>46.7 ~ 96.9°</td></tr><tr><td>Minimum object distance</td><td>0.3 m</td></tr></table></div></div>	Format	1/3" CS-mount	Focal length	2.8 ~ 6 mm	Focus type	manually adjustable	Maximum relative aperture	F1.4	Horizontal angle of view	46.7 ~ 96.9°	Minimum object distance	0.3 m	2GF1664-8AE	
Format	1/3" CS-mount														
Focal length	2.8 ~ 6 mm														
Focus type	manually adjustable														
Maximum relative aperture	F1.4														
Horizontal angle of view	46.7 ~ 96.9°														
Minimum object distance	0.3 m														
C70308	<div><div>3.5 ~ 8 mm F1.4, 1/3" CS, varifocal, manual iris CS-mount varifocal lens with manual focus and high-performance glass optics. For standard and day-night cameras. <table><tr><td>Format</td><td>1/3" CS-mount</td></tr><tr><td>Focal length</td><td>3.5 ~ 8 mm</td></tr><tr><td>Focus type</td><td>manually adjustable</td></tr><tr><td>Maximum relative aperture</td><td>F1.4</td></tr><tr><td>Horizontal angle of view</td><td>35.2 ~ 78.5°</td></tr><tr><td>Minimum object distance</td><td>0.35 m</td></tr></table></div></div>	Format	1/3" CS-mount	Focal length	3.5 ~ 8 mm	Focus type	manually adjustable	Maximum relative aperture	F1.4	Horizontal angle of view	35.2 ~ 78.5°	Minimum object distance	0.35 m	2GF1664-8AD	
Format	1/3" CS-mount														
Focal length	3.5 ~ 8 mm														
Focus type	manually adjustable														
Maximum relative aperture	F1.4														
Horizontal angle of view	35.2 ~ 78.5°														
Minimum object distance	0.35 m														

Type	Description / Technical data	Order No.	Datasheet No.
C70612	6 ~ 12 mm F1.6, 1/3" CS, varifocal, manual iris CS-mount varifocal lens with manual focus and high-performance glass optics. Format 1/3" CS-mount Focal length 6.0 ~ 12 mm Focus type manually adjustable Maximum relative aperture F1.6 Horizontal angle of view 23.0 ~ 47.2° Minimum object distance 1.0 m	2GF1664-8AF	
C60812	8 ~ 48 mm F1.0, 1/2" C, varifocal, manual iris C-mount varifocal lens with manual focus, high-performance glass optics and ND spot-filter. Format 1/2" C-mount Focal length 8 ~ 48 mm Focus type manually adjustable Aperture F1.0 Horizontal angle of view 7.8 ~ 43.5° Minimum object distance 1.2 m	2GF1650-8AB	
C31204	12.5 ~ 75 mm F1.8, 2/3" C, varifocal, manual iris C-mount varifocal lens with manual focus, high-performance glass optics and ND spot-filter. Format 2/3" C-mount Focal length 12.5 ~ 75 mm Focus type manually adjustable Aperture F1.8 Horizontal angle of view 6.7 ~ 39.7° Minimum object distance 1.0 m	2GF1610-8AB	
C70220HK	2.8 ~ 6 mm F1.4, 1/3" CS, varifocal, DD auto-iris CS-mount varifocal lens with high-performance glass optics, direct drive auto-iris mechanism and ND spot-filter. For standard and day-night cameras. Supplied with fitted plug. Format 1/3" CS-mount Focal length 2.8 ~ 6 mm Focus type manually adjustable Aperture F1.4 Horizontal angle of view 46.8 ~ 96.9° Minimum object distance 0.3 m	2GF1667-8AN	
C70312HK	3.5 ~ 8 mm F1.4, 1/3" CS, varifocal, DD auto-iris CS-mount varifocal lens with high-performance glass optics, direct drive auto-iris mechanism and ND spot-filter. For standard and day-night cameras. Supplied with fitted plug. Format 1/3" CS-mount Focal length 3.5 ~ 8 mm Focus type manually adjustable Aperture F1.4 Horizontal angle of view 32.6 ~ 72.5° Minimum object distance 0.35 m	2GF1667-8AF	
C70608HK	6 ~ 12 mm F1.6, 1/3" CS, varifocal, DD auto-iris CS-mount varifocal lens with high-performance glass optics, direct drive auto-iris mechanism and ND spot-filter. For standard and day-night cameras. Supplied with fitted plug. Format 1/3" CS-mount Focal length 6.0 ~ 12 mm Focus type manually adjustable Aperture F1.6 Horizontal angle of view 23.0 ~ 47.2° Minimum object distance 1.0 m	2GF1667-8AH	

VT

G04Z02NDDC
/IRSF**4 ~ 10 mm F1.8, 1/2" CS, varifocal, DD auto-iris, IR cut filter**

Siemens patented day-night application on this CS-mount varifocal lens with high-performance glass optics, direct drive auto-iris mechanism and ND spot-filter. With IR cut filter, therefore particularly suitable for VCM511 day-night cameras. Supplied with fitted plug.

Format	1/2" CS-mount
Focal length	4.0 ~ 10 mm
Focus type	manually adjustable
Aperture	F1.8
Horizontal angle of view	94.8 ~ 37.3°
Minimum object distance	0.3 m
Infrared coating	Yes

2GF1654-8AC

A06Z02NDDC
/IRSF**6 ~ 13 mm F1.8, 1/2" C, varifocal, DD auto-iris, IR cut filter**

Siemens patented day-night application on this C-mount varifocal lens with high-performance glass optics, direct drive auto-iris mechanism and ND spot-filter. With IR cut filter, therefore particularly suitable for VCM511 day-night cameras. Supplied with fitted plug.

Format	1/2" C-mount
Focal length	6.0 ~ 13 mm
Focus type	manually adjustable
Aperture	F1.8
Horizontal angle of view	60.3 ~ 28.5°
Minimum object distance	0.3 m
Infrared coating	Yes

2GF1654-8AD



zoom lenses

Siemens

CLZD1314/6-36

6 ~ 36 mm F1.4, 1/3" CS, motor zoom, DD auto-iris

CS-mount motor zoom lens with zoom and focus drives, high-performance glass optics, galvanometric direct drive auto-iris mechanism and ND spot-filter. Supplied with fitted iris plug.

Format	1/3" CS-mount
Focal length	6 ~ 36 mm
Focus type	electronically adjustable
Aperture	F1.4
Horizontal angle of view	43.6°
Minimum object distance	1.3 m

2GF1665-8AF

A24205-A336-B648



CLZD1312/6-72

6 ~ 72 mm F1.2, 1/3" CS, motor zoom, DD auto-iris

CS-mount motor zoom lens with zoom and focus drives, high-performance glass optics, galvanometric direct drive auto-iris mechanism and ND spot-filter. Supplied with fitted iris plug.

Format	1/3" CS-mount
Focal length	6 ~ 72 mm
Focus type	electronically adjustable
Aperture	F1.2
Horizontal angle of view	43.7°
Minimum object distance	1.5 m

2GF1665-8AG






A24205-A336-B648



Type	Description / Technical data	Order No.	Datasheet No.
CLPD1312/6-72	6 ~ 72 mm F1.2, 1/3" CS, motor zoom, DD auto-iris, pots CS-mount motor zoom lens with zoom and focus drives, 5K Ohm zoom and focus feedback potentiometers for use as presets, high-performance glass optics, galvanometric direct drive auto-iris mechanism and ND spot-filter. Supplied with fitted iris plug. Format 1/3" CS-mount Focal length 6 ~ 72 mm Focus type electronically adjustable Aperture F1.2 Horizontal angle of view 43.7° Minimum object distance 1.5 m	2GF1666-8AD	A24205-A336-B648
Pentax			
C60809ZD	8 ~ 48 mm F1.0, 1/2" C, motor zoom, DD auto-iris C-mount motor zoom lens with zoom and focus drives, high-performance glass optics, auto-iris mechanism and ND spot-filter. Supplied with fitted iris plug. Format 1/2" C-mount Focal length 8.0 ~ 48 mm Focus type electronically adjustable Aperture F1.0 Horizontal angle of view 7.8 ~ 43.5° Minimum object distance 1.2 m	2GF1655-8AC	
C70500DC	5.8 ~ 58 mm F1.2, 1/3" CS, motor zoom, DD auto-iris CS-mount motor zoom lens with zoom and focus drives, high-performance glass optics, auto-iris mechanism and ND spot-filter. Supplied with fitted iris plug. Format 1/3" CS-mount Focal length 5.8 ~ 58 mm Focus type electronically adjustable Aperture F1.2 Horizontal angle of view 4.8 ~ 44.0° Minimum object distance 1.8 m	2GF1665-8AE	
C70501ZD	5.8 ~ 58 mm F1.2, 1/3" CS, motor zoom, DD auto-iris, pots As C70500DC but with 5K Ohm zoom and focus feedback potentiometers.	2GF1666-8AC	
C60701ZD	7.5 ~ 75 mm F1.2, 1/2" C, motor zoom, DD auto-iris C-mount motor zoom lens with zoom and focus drives, high-performance glass optics, auto-iris mechanism and ND spot-filter. Supplied with fitted iris plug. Format 1/2" C-mount Focal length 7.5 ~ 75 mm Focus type electronically adjustable Aperture F1.2 Horizontal angle of view 5.0 ~ 45.6° Minimum object distance 1.8 m	2GF1655-8AB	
C60817ZD	8 ~ 120 mm F1.6, 1/2" C, motor zoom, DD auto-iris C-mount motor zoom lens with zoom and focus drives, high-performance glass optics, auto-iris mechanism and ND spot-filter. Supplied with fitted iris plug. Format 1/2" C-mount Focal length 8.0 ~ 120 mm Focus type electronically adjustable Aperture F1.6 Horizontal angle of view 3.1 ~ 43.5° Minimum object distance 1.5 m	2GF1655-8AD	



lenses

Type	Description / Technical data	Order No.	Datasheet No.
C60702ZD	7.5 ~ 75 mm F1.2, 1/2" C, motor zoom, DD auto-iris, pots C-mount motor zoom lens with zoom and focus drives, high-performance glass optics, auto-iris mechanism and ND spot-filter. Including 5K Ohm zoom and focus feedback potentiometers. Supplied with fitted iris plug. Format 1/2" C-mount Focal length 7.5 ~ 75 mm Focus type electronically adjustable Aperture F1.2 Horizontal angle of view 5.0 ~ 45.6° Minimum object distance 1.8 m	2GF1656-8AB	
C60810ZD	8 ~ 48 mm F1.0, 1/2" C, motor zoom, DD auto-iris, pots C-mount motor zoom lens with zoom and focus drives, high-performance glass optics, auto-iris mechanism and ND spot-filter. Including 5K Ohm zoom and focus feedback potentiometers. Supplied with fitted iris plug. Format 1/2" C-mount Focal length 8.0 ~ 48 mm Focus type electronically adjustable Aperture F1.0 Horizontal angle of view 7.8 ~ 43.5° Minimum object distance 1.2 m	2GF1656-8AC	
C60820DC	8 ~ 120 mm F1.6, 1/2" C, motor zoom, DD auto-iris, pots C-mount motor zoom lens with zoom and focus drives, high-performance glass optics, auto-iris mechanism and ND spot-filter. Including 5K Ohm zoom and focus feedback potentiometers. Supplied with fitted iris plug. Format 1/2" C-mount Focal length 8.0 ~ 120 mm Focus type electronically adjustable Aperture F1.6 Horizontal angle of view 3.1 ~ 43.5° Minimum object distance 1.5 m	2GF1656-8AD	
VT			
A08Z15NDDC POIRS	8 ~ 120 mm F1.8, 1/2" C, motor zoom, DD auto-iris, pots, IR cut C-mount motor zoom lens with zoom and focus drives, high-performance glass optics, auto-iris mechanism and ND spot-filter. With IR cut filter, therefore particularly suitable for VCM511 day-night cameras. Supplied with fitted iris plug. Format 1/2" C-mount Focal length 8.0 ~ 120 mm Focus type electronically adjustable Aperture F1.8 Horizontal angle of view 3 ~ 43,6° Minimum object distance 1.2 m Infrared coating Yes Potentiometers Yes	2GF1656-8AA	
	accessories lenses		
DC-VD	Adaptor from DC to video drive connector This external easy-click-on auto iris circuit makes a direct drive lens into an auto iris (video driven) lens. DC-VD can be delivered with or without plug. Cable Connections Plug side (to CCD Camera) Receptacle side (from lens)	2GF1698-8AC	

Siemens

outdoor housings

ECH-S

Camera housing 220 mm, IP66, 230 V heater

Suitable for indoor and outdoor mounting. Robust aluminum housing with attractive design. Two PG9 cable glands. Removable carriage for simple maintenance of camera in operating position. Integrated gutter at front of sunshield. Supplied, as standard, with a positive temperature coefficient heater element and thermostat. Various brackets are available to suit mounting requirements. Does not include power supply.

Heater rating	220VAC, 40W
Heater turn-on	<14°C ± 3°C
Heater turn-off	>20°C ± 3°C
Cable entry	2 x PG9
Finish	Extruded and diecast aluminium
Colour	Off-white (RAL9002)
Protection rating	IP66
Usable volume (W x H x D)	70 x 65 x 220 mm (138 mm depth with fitted PSU)
Dimensions (W x H x D)	105 x 95 x 275 mm

2GF1705-8HA

A24205-A336-B797



ECH-M

Camera housing 300 mm, IP66, 230 V heater

As above for technical details but with the following differences:

Usable volume (W x H x D)	65 x 60 x 300 mm (218 mm depth with fitted PSU)
Dimensions (W x H x D)	105 x 97 x 360 mm

2GF1705-8JA

A24205-A336-B797



ECH-B

Camera housing 320 mm, IP66, 3 x PG9, 230 V heater

As above for technical details but with the following differences:

Cable entry	1 x PG11, 2 x PG9
Usable volume (W x H x D)	90 x 85 x 320 mm (238 mm depth with fitted PSU)
Dimensions (W x H x D)	144 x 135 x 410 mm

2GF1705-8KA

A24205-A336-B797



VCH200-230H

Camera housing 300 mm, IP66 rated, 230 V heater

A general purpose aluminium camera housing complete with sunshield and glass face-plate. Ideal for cameras fitted with either fixed or varifocal length lenses. Two cable entries provide for power and video. Suitable for static or pan-tilt mounting. The outer body of the housing is easily removed allowing in-situ adjustment of camera, lens and cabling. Supplied, as standard, with a positive temperature coefficient heater element and thermostat. Various brackets are available to suit mounting requirements. Does not include power supply.

Heater rating	110 ~ 230 VAC, 40 W
Heater turn-on	≤ 14 ± 3 °C
Heater turn-off	≥ 20 ± 3 °C
Cable entry	1 x PG11, 1 x PG9
Finish	Epoxy powder-coat
Colour	Off-white (RAL9002)
Protection rating	IP66
Usable volume (W x H x D)	70 x 65 x 300 mm
Dimensions (W x H x D)	120 x 115 x 370 mm

GBQ:A540816



VCH200

Camera housing 300mm, IP66 rated, no heater / PSU

As above for technical details however without both heater and power supply.

2GF1705-8MA



housings & mounts

Type

Description / Technical data

Order No.

Datasheet No.

CHM

Camera housing 320 mm, IP66, 2 x PG9, 1 x PG16, 230 V heater

Suitable for indoor and outdoor mounting. Includes sunshield with gutter, 3 PG screwed glands, camera mounting plate with anti-slip surface, and thermostatic switch. Does not include power supply.

Heater rating	110 - 265 V _{AC} , 7 W
Heater turn-on	16 °C
Heater turn-off	20 °C
Cable entry	2 x PG9; 1 x PG16
Finish	Centre section: extruded and diecast aluminum
	Front and rear sections: robust plastic
Colour	Off-white (RAL9002)
Protection rating	IP66
Usable volume (W x H x D)	90 x 76 x 320 mm (238 mm length with fitted PSU)
Dimensions (W x H x D)	473 x 133 x 125 mm

2GF1705-8EA

A24205-A336-B795



CHH

Camera housing 320 mm, IP66, quick connector, 230 V heater

As CHM for technical details but with internal distribution board and internal multipoint connector. Service and maintenance is simplified significantly and the housing is much more mobile.

2GF1705-8FA

A24205-A336-B795

housing mounts

Siemens

WMB-S-M-B

Wall bracket for ECH-S / M / B, VCH200

Medium duty aluminium wall mount with integral swivel-tilt joint. The housing position is secured with a single allen-screw. Four fixing holes enable stable mounting on flat surfaces. Provided complete with stainless-steel fixings to attach the housing to the mount.

Arm length	226 mm
Load rating	25 kg
Finish	Epoxy powder-coat
Colour	Off-white (RAL9002)

2GF1705-8LB

A24205-A336-B983



WMBK-PH

Wall bracket for ECH-S / M / B, VCH200

Heavy duty aluminium wall mount with integral swivel-tilt joint. Four fixing holes enable stable mounting on flat surfaces.

Dimensions	58 x 120 x 295 mm
Colour	Matt black
Finish	Cast aluminium
Loading capacity	30 kg

2GF1710-8AK

A24205-A336-B983



HMBF-PH

Mounting block insulated for ECH-S/M/B, VCH200

For installation of a protective housing on a horizontal or inclined surface, on a wall bracket or pole bracket.

Dimensions	65 x 77 x 101 mm
Colour	Grey
Finish	Resin bonded fabric, cast aluminium, steel
Loading capacity	10 kg

2GF1710-8AM

A24205-A336-B983



housings & mounts

Type	Description / Technical data	Order No.	Datasheet No.
HMB-PH	Mounting block for ECH-S / M / B, VCH200 For installation of a protective housing on a horizontal or inclined surface, on a wall bracket or pole bracket. Dimensions 58 x 61 x 70 mm Colour matt black Finish cast aluminium Loading capacity 30 kg	2GF1710-8AW	A24205-A336-B983
			
VCH910	Ceiling-mount for ECH-S / M / B, VCH200 Medium duty aluminium ceiling mount with internal cable channel and integral housing swivel-tilt joint. The housing position is secured with a single fixing. Three fixing holes on the base-plate enable stable mounting on flat surfaces. Provided complete with stainless-steel fixings to attach the housing to the mount. Ceiling drop 390 mm Load rating 25 kg Finish Epoxy powder-coat Colour Off-white (RAL9002)	GBQ:A538336	A24205-A336-B983
			
VCH992	Pedestal-mount for ECH-S / M / B, VCH200 Aluminium pedestal for mounting housings on the top of poles or building parapets. The integrated joint enables the top-mounted housing to be rotated and tilted. Four fixing holes on the base enable stable mounting on flat surfaces. Provided complete with stainless-steel fixings to attach the housing to the mount. Height 185 mm Load rating 25 kg Finish Epoxy powder-coat Colour Off-white (RAL9002)	GBQ:A538349	A24205-A336-B983
			
WMB-HM-HH	Wall bracket for CHM / CHH housings For mounting a CHM/CHH housing on a vertical surface. Colour Off-white (RAL9002) Loading capacity 30 kg	2GF1705-8GB	A24205-A336-B983
			
POL-HM-HH	Pole console for CHM / CHH housings For mounting a CHM/CHH housing on a pole. Supplied with fixing straps to pole. Colour Grey (RAL7032) Loading capacity 5 kg	2GF1705-8GC	A24205-A336-B983
			
CF-HM-HH	Ceiling fixture for CHM / CHH housings For mounting a CHM/CHH housing to a ceiling. The housing is screwed to this ceiling bracket just as on a normal wall bracket. Colour Grey (RAL7032)	2GF1705-8GD	A24205-A336-B983
			

housings & mounts

Type

Description / Technical data

Order No.

Datasheet No.

VCH990

Pole-adapter for WMB-S-M-B and VPT900 mounts

Medium duty aluminium adapter to enable the WMB-S-M-B housing wall-mount and VPT900 pan-tilt wall-mount to be fitted to round poles and posts. Provided complete with stainless-steel fixings to attach the adapter to pole and the mount to the adapter.

Pole diameter	65 ~ 110 mm
Load rating	50 kg
Dimensions	110 x 175 mm
Finish	Epoxy powder-coat
Colour	Off-white (RAL9002)

GBQ:A538352

A24205-A336-B983



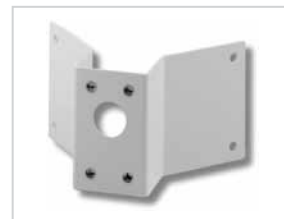
VCH991

Corner-adapter for VCH900 and VPT900 mounts

Medium duty steel adapter to enable the VCH900 housing wall-mount and the VPT900 pan-tilt wall-mount to be fitted to outside corners. Provided complete with stainless-steel fixings to attach the mount to the adapter.

Load Rating	35kg
Dimensions	215 x 120mm
Finish	Epoxy powder-coat
Colour	Off-white (RAL9002)

GBQ:A538365



special housings

Alarmcom

VCH700

Vandal resistant ceiling mount camera housing

Specifically designed to withstand the type of physical abuse and random vandalism encountered in public areas. Tough 3 mm steel construction, 10 mm polycarbonate front-plate and a tamper-resistant key-operated closure mechanism provide a high degree of mechanical protection for cameras. Does not include power supply.

Usable volume (W x H x D)	100 x 85 x 200 mm
Dimensions (W x H x D)	170 x 170 x 390 mm
Weight	6.4 kg
Finish	Epoxy powder-coat
Colour	Off-white (RAL9002)

GBQ:A541006



accessories housings

Siemens

PSU12-ECH/S/M

Camera PSU 12 Vdc for ECH-S/M, VCH200 housings

Step-down power supply designed to be mounted within ECH-S/M, VCH200 housings to provide 12 Vdc power to the camera.

Input rating	230 VAc
Output rating	12 Vdc, 400 mA

2GF1705-8LA

A24205-A336-B983



PSU24-ECH/S/M

Camera PSU 24 VAc for ECH-S/M, VCH200 housings

As above for technical information but 24 VAc, 400 mA output.

2GF1705-8LD

A24205-A336-B983

PSU12-ECH/B

Camera PSU 12 Vdc for ECH-B housings

Step-down power supply designed to be mounted within ECH-B housings to provide 12 Vdc power to the camera.

Input rating	230 VAc
Output rating	12 Vdc, 400 mA
Dimensions (W x H x D)	90 x 85 x 45 mm

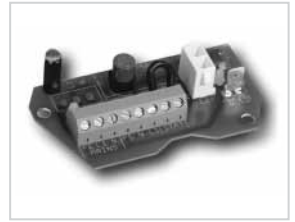
2GF1705-8KB

A24205-A336-B983




housings & mounts

Type	Description / Technical data	Order No.	Datasheet No.
PSU24-ECH/B	Camera PSU 24 Vac for ECH-B housings As PSU12-ECH/B for technical details but 24 Vac, 400 mA output.	2GF1705-8KC	A24205-A336-B983
MD-CHM	Mains distributor for housing CHM For CHM protective camera housing, with fuse. This optional unit makes maintenance of CHM outdoor housing easier and lets installers fastly removing and replacing the housing.	2GF1705-8EB	A24205-A336-B983
MT2WT-ECH	Mounting 2-wire transmitter housings ECH-M/ECH-B Mounting set for fitting the SMD two-wire transmitter in the camera protective housing ECH-M / ECH-B.	2GF1705-8LC	
2WT-PH/CH/ECH	2-wire transmitter for housings CH/ECH Two-wire transmitter module for installation in the CHM/CHH, ECH-M/ECH-B, camera protective housings.	2GF1714-8WN	A24205-A336-B983
PSU12-CHM/CHH	Camera PSU 12 Vdc for CHM/CHH housings Step-down power supply designed to be mounted within CHM and CHH housings to provide 12 Vdc power to the camera. Input rating 230 VAC Output rating 12 VDC, 600 mA stabilized Heating connection 230 VAC, 100 mA max. Dimensions (W x H x D) 96 x 97.5 x 49 mm	2GF1705-8GA	A24205-A336-B983
PSU24-CHM/CHH	Camera PSU 24 Vac for CHM/CHH housings As above for technical details but with the following differences: Output rating 24 VAC, 600 mA stabilized Dimensions (W x H x D) 96 x 72 x 41 mm	2GF1705-8GE	A24205-A336-B983
PSU12/24-CHM/CHH	Camera PSU 12 Vdc or 24 Vac for CHM/CHH housings As above for technical details but with the following differences: Output rating 12 VDC stabilized, 600 mA or 24 VAC, 1 A Dimensions (W x H x D) 96 x 97.5 x 49 mm	2GF1705-8GF	A24205-A336-B983
VCH993-230	Replacement heater kit for VCH200 housings, 230 Vac Positive temperature coefficient heater element with thermostat for VCH200 housings. Heater rating 110 ~ 230 VAC, 40 W Heater turn-on $\leq 14 \pm 3$ °C Heater turn-off $\geq 20 \pm 3$ °C	GBQ:A557236	A24205-A336-B983



housings & mounts

Type	Description / Technical data	Order No.	Datasheet No.
VCH993-24	Replacement heater kit for VCH200 housings, 24 VAc As VCH993-230 for technical details but 12 Vdc ~ 24 VAc, 20 W element.	GBQ:A557249	A24205-A336-B983
Alarmcom			
VCH970-12	Camera PSU 230 VAc to 12 Vdc for VCH700 housing Step-down power supply designed to be mounted within VCH700 housings to provide 12 Vdc power to the camera. Output rating 12 Vdc, 400 mA	GBQ:A541035	
VCH970-24	Camera PSU 230 VAc to 24 VAc for VCH700 housing As above for technical details except for 24 VAc 400 mA.	GBQ:A541048	
VCH994-230	Replacement heater kit for ECHM housing, 230 VAc Positive temperature coefficient heater element with thermostat for VCH400 housing. Heater rating 110 ~ 230 VAc, 40 W Heater turn-on ≤ 14 ±3 °C Heater turn-off ≥ 20 ±3 °C	GBQ:A557252	A24205-A336-B983
VCH994-24	Replacement heater kit for ECH-M housing, 24 VAc As above for technical details but 12 Vdc ~ 24 VAc, 20 W element.	GBQ:A557265	A24205-A336-B983
VCH990-230	Heater kit for VCH700 housing, 230 VAc Optional positive temperature coefficient heater element with thermostat for VCH700 housing. Heater rating 110 ~ 230 VAc, 40 W Heater turn-on ≤ 14 ±3 °C Heater turn-off ≥ 20 ±3 °C	GBQ:A541019	

pan-tilt & telemetry equipment

Type Description / Technical data Order No. Datasheet No.

Siemens

pan-tilts

PT40

Pan-tilt, fixed-speed, 20 kg, IP66, 24 Vac

A medium duty pan-tilt to allow the remote control of panning and tilting CCTV cameras, suitable for mounting both indoors and outdoors. Separate pan and tilt drive units with low-voltage motors and self-locking gears; adjustable pan and tilt ranges; aluminium diecast housing with drive shafts made of high quality stainless steel

Pan travel	360°
Pan speed	6°/s
Tilt travel	± 90°
Tilt speed	3°/s
Travel limits	Internally adjustable pan and tilt limits
Load rating	20 kg
Plug connection	7 pin
Shell construction	Aluminium
Colour	RAL7032 (light grey)
Dimensions (W x H x D)	140 x 211 x 336 mm
Weight	6.5 kg
Protection rating	IP66
Power requirements	24 VAC, 2 x 6.8 W

2GF1708-8AR A24205-A336-B953



PT40 Pot

Pan-tilt, fixed-speed, 20 kg, IP66, 24 Vac, presets

As above for technical details but with potentiometers for position control to allow the programming of presets.

Potentiometer	2 x 5 kOhm
Plug connection	13 pin

2GF1708-8AS A24205-A336-B953

CDD2410

Pan-tilt, programmable speed, 12 kg, IP66, 24 Vac, presets

The CDD2410 is a motorized pan-tilt with programmable speed, designed to handle loads of up to 12 kg. The rugged design, excellent weather resistance, and high torque drive allow the pan-tilt head to meet the demanding work loads of modern CCTV control systems.

The pan-tilt head contains a built in receiver-driver, which enables the control of pan and tilt functions, a motorized lens with zoom, focus, and iris functions without an additional SCU directly by the SIMATRIX via the TTY interface. In addition, the CDD2410 can be programmed for presets and also features a user-definable sequence capability.

Pan travel	360°
Pan speed	32°/s
Tilt travel	± 90°
Tilt speed	16°/s
Load rating	12 kg
Plug connection	13 pin / 24 pin
Potentiometer on both axis	5 kOhm
Presets	50 positions
Finish	Extruded aluminium body / Plastic covers (PC)
Colour	C31 / RAL7032 (light grey)
Dimensions (W x H x D)	140 x 211 x 336 mm
Weight	6.5 kg
Protection rating	IP66
Power requirements	24 VAC, 90 W

2GF1708-8EA



pan-tilt & telemetry equipment

Type

Description / Technical data

Order No.

Datasheet No.

Alarmcom

VPT050-230

Indoor wall-mount pan-tilt, fixed-speed, 5 kg capacity, 230 VAc

GBQ:A541103

A light-duty pan-tilt for indoor use with integral wall-mount. Ideal for commercial premises, this pan-tilt is specifically designed for direct mounting of a camera. Includes auto-pan facility.

Construction	Aluminium with plastic outer-shell
Pan speed	6°/s
Tilt speed	3°/s
Travel limits	Externally adjustable pan limit Fixed 0 ~ -90° tilt limit
Finish	Epoxy powder-coat
Colour	Off-white (RAL9002)
Load rating	5 kg
Dimensions (W x H x D)	120 x 190 x 230 mm
Weight	2.45 kg
Power requirements	230 VAc, 7 W



VPT050-24

Indoor wall-mount pan-tilt, fixed-speed, 5 kg capacity, 24 VAc

GBQ:A541116

As above for technical details but 24 VAc, 7 W.

VPT100-230

Pan-tilt, fixed-speed, 12 kg capacity, IP66, 230 VAc

GBQ:A537984

A medium-duty side-mount pan-tilt suitable for inverted mounting. The IP66 rating makes it ideal for both outdoor or indoor use. Includes an auto-pan facility between adjustable travel limits.

Pan travel	360°, non-continuous rotation
Pan speed	6°/s
Tilt travel	360°, non-continuous rotation
Tilt speed	3°/s
Travel limits	Internally adjustable pan and tilt limits
Load rating	12 kg (balanced load)
Shell construction	Aluminium
Finish	Epoxy powder-coat
Colour	Off-white (RAL9002)
Dimensions (W x H x D)	160 x 180 x 142 mm
Weight	4.5 kg
Protection rating	IP66
Power requirements	230 VAc, 6.5 W



VPT100-24

Pan-tilt, fixed-speed, 12 kg capacity, IP66, 24 VAc

GBQ:A537971

As above for technical details but 24 VAc, 6.5 W.

VPT100-230P

Pan-tilt, fixed-speed, 12 kg capacity, IP66, 230 VAc with presets

GBQ:A541129

As above for technical details but supplied complete with feedback potentiometers to enable automatic calling of presets when used with appropriately equipped receiver-drivers and controllers.

VPT100-24P

Pan-tilt, fixed-speed, 12 kg capacity, IP66, 24 VAc with presets

GBQ:A541132

As above for technical details but 24 VAc.

See "system diagrams" at back of catalogue for connections.

pan-tilt & telemetry equipment

Type	Description / Technical data	Order No.	Datasheet No.
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VPT200-230

Pan-tilt, fixed-speed, 30 kg capacity, IP66, 230 VAc

GBQ:A538019

A heavy-duty side-mount pan-tilt with IP66 rating that makes it ideal for both outdoor or indoor use. This unit is suitable for inverted mounting and includes an auto-pan facility between adjustable limits.

Pan travel	355°, non-continuous rotation
Pan speed	6°/s
Tilt travel	355°, non-continuous rotation
Tilt speed	3°/s
Travel limits	Internally adjustable pan and tilt limits
Load rating	30 kg (balanced load)
Shell construction	Aluminium
Finish	Epoxy powder-coat
Colour	Off-white (RAL9002)
Protection rating	IP66
Dimensions (W x H x D)	168 x 192 x 120 mm
Weight	5.5 kg
Power requirements	230 VAc, 8 W



VPT200-24

Pan-tilt, fixed-speed, 30 kg capacity, IP66, 24 VAc

GBQ:A537997

As above for technical details but 24 VAc, 6.5 W.

VPT200-230P

Pan-tilt, fixed-speed, 30 kg capacity, IP66, 230 VAc with presets

GBQ:A538022

As above for technical details but supplied complete with feedback potentiometers to enable automatic calling of presets when used with appropriately equipped receiver-drivers and controllers.

VPT200-24P

Pan-tilt, fixed-speed, 30 kg capacity, IP66, 24 VAc with presets

GBQ:A538006

As above for technical details but 24 VAc.

See "system diagrams" at back of catalogue for connections.

pan-tilt & telemetry equipment

Type

Description / Technical data

Order No.

Datasheet No.

Siemens

pan-tilt telemetry receiver-drivers

SCU301

Junction box, PSU, 24 V_{AC} with telemetry

For power supply of camera, pan-and-tilt drive, motorized lens and heater. SCU301 comes in a dust- and waterproof housing. Optical function display for startup and maintenance. Pulse-width modulation for slow starting up of lens motors. Can be additionally fitted with a FSK receiver (SIMSYS-RX/SCU) or with a fibre optic / TTY converter module (SIM-TTY/FO) for control and video two-wire transmitter or fibre optic transmitter for video transmission.

Compatible with	SUT48, CKA4810/3210, SIMATRIX
Telemetry formats	TTY 20-mA interface (two-wire), unidirectional
Baud rate	1200 - 9600 bits/s, adjustable
Pan-tilt drive	24 V _{AC} , 9.6 W
Camera power supply	12 V _{DC} , 9.6 W, regulated
Lens drive	6 - 12 V _{DC} , 2.4 W, regulated, adjustable
External device	17 V _{DC} , 5.1 W, non-regulated
Addressing	99
Protection rating	IP67
Dimensions (W x H x D)	189 x 130 x 189 mm
Power requirements	115 V _{AC} / 230 V _{AC} , selectable, 58 W

2GF2207-8BC A24205-A336-B864



SCU301-K500

Junction box, PSU, 24 V_{AC} telemetry/control K505

As above for technical details but with position control and parameterisation connection for camera K505.

2GF2207-8BD A24205-A336-B864

SCU302

Junction box, PSU, 24 V_{AC}, telemetry potentiometers

As SCU301 for technical details but also includes saving of preset position parameters for up to 64 positions in non-volatile memory and automatic position cycle. OSD ensures ease of controlling functions and positions.

Telemetry formats	TTY 20-mA interface (two-wire), unidirectional, TTL interface for K505
Baud rate	1200 - 9600 bits/s (auto detection)
Presets	64
Addressing	127
Dimensions (W x H x D)	279 x 130 x 189 mm

2GF2207-8BE A24205-A336-B864



See "system diagrams" at back of catalogue for connections.

pan-tilt & telemetry equipment

Type	Description / Technical data	Order No.	Datasheet No.																						
CDC0401	<div>NEW Available NOW</div> Telemetry receiver driver, fixed speed, 24/230 Vac <p>Control units are required for operating pan-and-tilt drives as the control commands from the "control centre" must be converted into electrical signals for the motors in the pan-and-tilt drive. The two CDC0401 and CDC0402 control units are particularly suitable for operation of pan-and-tilt drives with a power supply of 24 VAC or 230 VAC. The control units are driven via the SIMATRIX matrix range or the CKA/SUT control keyboard. As the protocol is compatible with the SCU301 and SCU302 control units, extension of existing SIMATRIX systems by the two control units from this economy line is easily possible.</p> <table><tr><td>Compatible with</td><td>SUT48, CKA4810/3210, SIMATRIX</td></tr><tr><td>Telemetry formats</td><td>TTY</td></tr><tr><td>Baud rate</td><td>600 - 19,200 bits/s</td></tr><tr><td>Pan-tilt drive</td><td>24 VAC or 230 VAC, 13 W per motor</td></tr><tr><td>Camera power supply</td><td>12 VDC or 24 VAC</td></tr><tr><td>Lens drive</td><td>2.5 - 15Vdc</td></tr><tr><td>Switching outputs (relay contact)</td><td>Up to 24 Vdc, 1 A</td></tr><tr><td>Addressing</td><td>99 addresses selectable using DIP switches</td></tr><tr><td>Protection rating</td><td>IP67</td></tr><tr><td>Dimensions (W x H x D)</td><td>300 x 175 x 320 mm</td></tr><tr><td>Power requirements</td><td>230 VAC, 50 W</td></tr></table>	Compatible with	SUT48, CKA4810/3210, SIMATRIX	Telemetry formats	TTY	Baud rate	600 - 19,200 bits/s	Pan-tilt drive	24 VAC or 230 VAC, 13 W per motor	Camera power supply	12 VDC or 24 VAC	Lens drive	2.5 - 15Vdc	Switching outputs (relay contact)	Up to 24 Vdc, 1 A	Addressing	99 addresses selectable using DIP switches	Protection rating	IP67	Dimensions (W x H x D)	300 x 175 x 320 mm	Power requirements	230 VAC, 50 W	2GF2207-8CA	A24205-A336-B764
Compatible with	SUT48, CKA4810/3210, SIMATRIX																								
Telemetry formats	TTY																								
Baud rate	600 - 19,200 bits/s																								
Pan-tilt drive	24 VAC or 230 VAC, 13 W per motor																								
Camera power supply	12 VDC or 24 VAC																								
Lens drive	2.5 - 15Vdc																								
Switching outputs (relay contact)	Up to 24 Vdc, 1 A																								
Addressing	99 addresses selectable using DIP switches																								
Protection rating	IP67																								
Dimensions (W x H x D)	300 x 175 x 320 mm																								
Power requirements	230 VAC, 50 W																								
CDC0402 Pos	Junction box control unit, PSU, 24/230Vac, telem, pots <p>As above for technical details but with position control for zoom/focus and pan/tilt for 14 stored preset positions. Automatic position cycle can be programmed and recalled.</p> <table><tr><td>Position control</td><td>Aux4, Common alarm switching output of position memory 24 VDC, 1 A</td></tr></table>	Position control	Aux4, Common alarm switching output of position memory 24 VDC, 1 A	2GF2207-8CB	A24205-A336-B764																				
Position control	Aux4, Common alarm switching output of position memory 24 VDC, 1 A																								
Alarmcom																									
VRD100-24	Receiver-driver for fixed-speed pan-tilts, 12 functions, 24 Vac <p>Weatherproof 12 function telemetry receiver for control of VPT100-24 and VPT200-24 pan-tilt units and motor driven zoom lenses. An auxiliary relay is available to trigger external devices, such as an infrared illuminator. Four PG11 glands are provided for cabling.</p> <table><tr><td>Compatible keyboard</td><td>VKB600</td></tr><tr><td>Telemetry formats</td><td>RS485, RS232, current loop</td></tr><tr><td>Address codes</td><td>99</td></tr><tr><td>Auxiliary relays</td><td>2</td></tr><tr><td>Auxiliary contact rating</td><td>230 VAC, 1 A</td></tr><tr><td>Protection rating</td><td>IP65</td></tr><tr><td>Dimensions (W x H x D)</td><td>150 x 85 x 200 mm</td></tr><tr><td>Weight</td><td>1 kg</td></tr><tr><td>Power requirements</td><td>24 VAC, 10 W</td></tr></table>	Compatible keyboard	VKB600	Telemetry formats	RS485, RS232, current loop	Address codes	99	Auxiliary relays	2	Auxiliary contact rating	230 VAC, 1 A	Protection rating	IP65	Dimensions (W x H x D)	150 x 85 x 200 mm	Weight	1 kg	Power requirements	24 VAC, 10 W	GBQ:A538051					
Compatible keyboard	VKB600																								
Telemetry formats	RS485, RS232, current loop																								
Address codes	99																								
Auxiliary relays	2																								
Auxiliary contact rating	230 VAC, 1 A																								
Protection rating	IP65																								
Dimensions (W x H x D)	150 x 85 x 200 mm																								
Weight	1 kg																								
Power requirements	24 VAC, 10 W																								
VRD200-230	Receiver-driver for fixed-speed pan-tilts, 17 functions, 230 Vac <p>Weatherproof 17 function telemetry receiver for control of pan-tilt, motor driven zoom lens and washer-wipers. Two auxiliary relays are available to activate external devices, such as infrared illuminators and a low-voltage output provides both 12 Vdc and 24 VAC for cameras. Up to 14 preset positions can be stored and recalled when the optional VRD200-P card is fitted. Suitable for RS485, RS232 or current loop telemetry formats. Six PG11 glands are provided for cabling.</p> <table><tr><td>Compatible keyboards</td><td>VKB600</td></tr><tr><td>Telemetry formats</td><td>RS485, RS232, current loop</td></tr><tr><td>Pan-tilt voltage</td><td>24 VAC or 230 VAC</td></tr><tr><td>Wash-wipe voltage</td><td>24 VAC or 230 VAC</td></tr><tr><td>Address codes</td><td>99</td></tr><tr><td>Auxiliary relays</td><td>2</td></tr><tr><td>Auxiliary contact rating</td><td>230 VAC, 1.0 A</td></tr><tr><td>Protection rating</td><td>IP65</td></tr><tr><td>Dimensions (W x H x D)</td><td>310 x 310 x 130 mm</td></tr><tr><td>Weight</td><td>4.3 kg</td></tr><tr><td>Power requirements</td><td>230 VAC, 50 W</td></tr></table>	Compatible keyboards	VKB600	Telemetry formats	RS485, RS232, current loop	Pan-tilt voltage	24 VAC or 230 VAC	Wash-wipe voltage	24 VAC or 230 VAC	Address codes	99	Auxiliary relays	2	Auxiliary contact rating	230 VAC, 1.0 A	Protection rating	IP65	Dimensions (W x H x D)	310 x 310 x 130 mm	Weight	4.3 kg	Power requirements	230 VAC, 50 W	GBQ:A538064	
Compatible keyboards	VKB600																								
Telemetry formats	RS485, RS232, current loop																								
Pan-tilt voltage	24 VAC or 230 VAC																								
Wash-wipe voltage	24 VAC or 230 VAC																								
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Dimensions (W x H x D)	310 x 310 x 130 mm																								
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Power requirements	230 VAC, 50 W																								

Siemens

CKA3210



controllers

Fixed speed Siemens pan-tilt-zoom controller, without joystick

The CKA3210 control unit is a standalone control and parameterisation unit for video surveillance systems. The varied interfaces and functions result in versatile system applications being possible. The unit can be used as an external control unit for the SIMATRIX 164, 648 and SYS video matrix units, or for controlling several domes, cameras or other DCU modules with telemetry capability in a point-to-point or star configuration.

The CKA3210 control unit can control peripheral units according to the SCU, SIVIS or CCDA protocol. Parameterisation using the control unit is possible for peripheral units with on-screen display function. The unit features user-friendly operation, and has a compact design. Unit is supplied without power supply.

Control	Fixed speed telemetry functions 35 keys on membrane keyboard
Display elements	Multi-colour LED (red, orange, green)
Serial interfaces	1 x control unit interface with two physical connections 1 x telemetry interface with one physical connection
Addressing	Selectable using DIP switches
Protocols	Selectable using DIP switches
Connections	COM1A - RS232 (9-pin Sub-D) COM1B - TTY modified (9-pin Sub-D) COM2 - RS485/TTY modified (9-pin Sub-D)
Housing	2-pin power supply connector Aluminium, painted RAL7016 with plastic side panels
Protection rating	IP 40
Dimensions (W x H x D)	255 x 50 x 170 mm
Power requirements	12 - 13.2 Vdc, 2.4 W

2GF2400-8EA

A24205-A336-B740



CKA4810

**Variable speed Siemens pan-tilt-zoom controller, joystick**

The CKA4810 has the same functions as CKA3210 plus the added functions and comfort of an LCD display and a proportional variable speed joystick. As above for technical details but with the following differences:

Control	Variable speed joystick (3 axis) 31 keys on membrane keyboard
Display elements	2 Line LCD display Multi-colour LED (red, orange, green)
Dimensions (W x H x D)	255 x 50 x 170 mm (excl. joystick)
Power requirements	12 - 13.2 Vdc, 2.4 W

2GF2400-8EB







See "system diagrams" at back of catalogue for connections.

pan-tilt & telemetry equipment




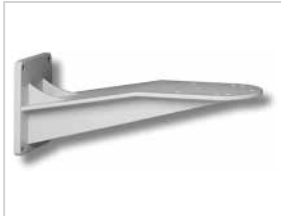


Type	Description / Technical data	Order No.	Datasheet No.																						
SUT48	<p>Fixed speed Siemens pan-tilt-zoom controller, joystick</p> <p>Control unit with 41 keys and joystick to control Siemens pan-tilt-drives, zoom lenses or SIMATRIX video matrix units. Audible output for alarm. Keyswitch to release or block the key functions. TTY interface for remote operation up to 2 km. RS232 interface module can be fitted (option).</p> <table><tr><td>Control elements</td><td>40 input and control keys 1 shift key for 2nd input level (only for direct control) 1 joystick for pan-and-tilt control of cameras 1 keyswitch to release or block the key functions</td></tr><tr><td>Display elements</td><td>2 Line LED display</td></tr><tr><td>Data interfaces</td><td>Standard: TTY 20-mA interface Option: RS232 interface</td></tr><tr><td>Baud rate</td><td>TTY 20-mA interface: 300 bits/s to 9600 bits/s, adjustable</td></tr><tr><td>TTY data cable length</td><td>Max. 2 km with wire diameter of 0.8 mm</td></tr><tr><td>Addressing</td><td>15 (for operation with SIMATRIX SYS or SIMATRIX 648)</td></tr><tr><td>Audible output</td><td>Internal</td></tr><tr><td>Connection</td><td>9-pin Sub-D</td></tr><tr><td>Housing</td><td>Aluminium, RAL7035</td></tr><tr><td>Dimensions (W x H x D)</td><td>370 x 40/24 x 171 mm</td></tr><tr><td>Power requirements</td><td>12 - 16 VDC, 8 W non-stabilized</td></tr></table>	Control elements	40 input and control keys 1 shift key for 2nd input level (only for direct control) 1 joystick for pan-and-tilt control of cameras 1 keyswitch to release or block the key functions	Display elements	2 Line LED display	Data interfaces	Standard: TTY 20-mA interface Option: RS232 interface	Baud rate	TTY 20-mA interface: 300 bits/s to 9600 bits/s, adjustable	TTY data cable length	Max. 2 km with wire diameter of 0.8 mm	Addressing	15 (for operation with SIMATRIX SYS or SIMATRIX 648)	Audible output	Internal	Connection	9-pin Sub-D	Housing	Aluminium, RAL7035	Dimensions (W x H x D)	370 x 40/24 x 171 mm	Power requirements	12 - 16 VDC, 8 W non-stabilized	2GF2400-8DA	A24205-A336-B873
Control elements	40 input and control keys 1 shift key for 2nd input level (only for direct control) 1 joystick for pan-and-tilt control of cameras 1 keyswitch to release or block the key functions																								
Display elements	2 Line LED display																								
Data interfaces	Standard: TTY 20-mA interface Option: RS232 interface																								
Baud rate	TTY 20-mA interface: 300 bits/s to 9600 bits/s, adjustable																								
TTY data cable length	Max. 2 km with wire diameter of 0.8 mm																								
Addressing	15 (for operation with SIMATRIX SYS or SIMATRIX 648)																								
Audible output	Internal																								
Connection	9-pin Sub-D																								
Housing	Aluminium, RAL7035																								
Dimensions (W x H x D)	370 x 40/24 x 171 mm																								
Power requirements	12 - 16 VDC, 8 W non-stabilized																								
SUT48NET	<p>Variable speed Siemens pan-tilt-zoom controller, joystick</p> <p>As above for technical details but with the following differences:</p> <table><tr><td>Variable speed joystick</td><td>Yes (2 axis)</td></tr><tr><td>Network compatibility</td><td>Yes (LAN, WAN)</td></tr></table>	Variable speed joystick	Yes (2 axis)	Network compatibility	Yes (LAN, WAN)	2GF2400-8FA																			
Variable speed joystick	Yes (2 axis)																								
Network compatibility	Yes (LAN, WAN)																								
Alarmcom																									
VPC100-230	<p>Desk-top pan-tilt-zoom controller for VPT pan-tilts, 230 V_{AC}</p> <p>A cost effective joy-pad controller for a single camera and zoom lens mounted on a fixed-speed pan-tilt unit. Includes auto-pan facility. Requires simple multi-core cabling between controller and lens and controller and pan-tilt.</p> <table><tr><td>Pan-tilt functions</td><td>Up, down, left, right, auto-pan</td></tr><tr><td>Lens functions</td><td>Zoom-on, zoom-out, iris-open, iris-close, focus-near, focus-far</td></tr><tr><td>Pan-tilt control power</td><td>230 V_{AC}, 45 W (max.)</td></tr><tr><td>Lens control voltage</td><td>6 or 12 V_{DC} (selectable)</td></tr><tr><td>Dimensions (W x H x D)</td><td>115 x 50 x 190 mm</td></tr><tr><td>Power requirements</td><td>9 ~ 14 V_{DC}, 8 W (230 V_{AC} adapter supplied)</td></tr></table>	Pan-tilt functions	Up, down, left, right, auto-pan	Lens functions	Zoom-on, zoom-out, iris-open, iris-close, focus-near, focus-far	Pan-tilt control power	230 V _{AC} , 45 W (max.)	Lens control voltage	6 or 12 V _{DC} (selectable)	Dimensions (W x H x D)	115 x 50 x 190 mm	Power requirements	9 ~ 14 V _{DC} , 8 W (230 V _{AC} adapter supplied)	GBQ:A537861											
Pan-tilt functions	Up, down, left, right, auto-pan																								
Lens functions	Zoom-on, zoom-out, iris-open, iris-close, focus-near, focus-far																								
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Dimensions (W x H x D)	115 x 50 x 190 mm																								
Power requirements	9 ~ 14 V _{DC} , 8 W (230 V _{AC} adapter supplied)																								
VPC100-24	<p>Desk-top pan-tilt-zoom controller for VPT pan-tilts, 24 V_{AC}</p> <p>As above for technical details but 24 V_{AC} operation of both controller and pan-tilt.</p>	GBQ:A537874																							



pan-tilt & telemetry equipment

Type	Description / Technical data	Order No.	Datasheet No.
VKB600	Fixed speed telemetry keyboard for VPT pan-tilts Intuitive desk-top keyboard with integral control "joy-pad" and LCD display to manoeuvre fixed-speed pan-tilt-zoom cameras driven via telemetry receiver-drivers. LCD display 2 lines of 16 characters Dimensions (W x H x D) 300 x 60 x 185 mm Power requirements 9 ~ 14 Vdc, 8 W (230 VAC adapter supplied)	GBQ:A537900	
Siemens	mounts		
WMB-PT40	Wall mount bracket for pan-tilt PT40 and CDD2410 For mounting a pan-tilt-drive on a vertical surface. With securing screws and special dowels. Load Rating 60 kg Dimensions (W x H x D) 250 x 290/430 x 530 mm Finish Galvanized steel, painted	2GF1710-8AC	
Alarmcom			
VPT920	Pan-tilt pole-top mount Medium duty steel mount to enable VPT100 and VPT200 series pan-tilt units to be fitted on top of round poles and posts. Supplied complete with stainless-steel fixings to attach the mount to the pole and the pan-tilt to the mount. Pole diameter 80 ~ 120 mm Load rating 50 kg Dimensions (W x H x D) 110 x 175 mm Finish Epoxy powder-coat Colour Off-white (RAL9002)	GBQ:A538268	
VPT940	Pan-tilt pedestal mount, 185 mm height Aluminium pedestal for mounting pan-tilt units on the top of poles or building parapets. Four fixing holes on the base enable stable mounting on flat surfaces. Provided complete with stainless-steel fixings to attach the pan-tilt to the mount. Height 185 mm Load Rating 50 kg Dimensions (Ø x H) 120 x 185 mm Finish Epoxy powder-coat Colour Off-white (RAL9002)	GBQ:A538284	



pan-tilt & telemetry equipment

Type	Description / Technical data	Order No.	Datasheet No.
VPT930	Pan-tilt ceiling mount, 325mm height Aluminium mount for inverted mounting of pan-tilt units from suitably strong ceilings and building eaves. Four fixing holes on the large footprint base enable stable mounting on flat surfaces. Provided complete with stainless-steel fixings to attach the pan-tilt to the mount. Height 325 mm Load Rating 50 kg Dimensions (W x D x H) 200 x 200 x 325 mm Finish Epoxy powder-coat Colour Off-white (RAL9002)	GBQ:A538271	
VPT900	Wall-mount for VPT100 series pan-tilt units Medium duty aluminium wall-mount for VPT100 series pan-tilt units. Four fixing holes enable stable mounting on flat surfaces. Provided complete with stainless-steel fixings to attach the pan-tilt to the mount. Arm length 360 mm Load rating 35 kg Mount footprint (W x H) 75 x 114 mm Finish Epoxy powder-coat Colour Off-white (RAL9002)	GBQ:A538242	
VCH990	Pole-adapter for WMB-S-M-B and VPT900 mounts Medium duty aluminium adapter to enable the WMB-S-M-B housing wall-mount and VPT900 pan-tilt wall-mount to be fitted to round poles and posts. Provided complete with stainless-steel fixings to attach the adapter to pole and the mount to the adapter. Pole diameter 65 ~ 110 mm Load rating 50 kg Dimensions (W x H x D) 110 x 175 mm Finish Epoxy powder-coat Colour Off-white (RAL9002)	GBQ:A538352	
VPT910	Heavy-duty wall-mount for VPT200 series pan-tilts Heavy-duty aluminium wall-mount for VPT200 series pan-tilt units. Four fixing holes enable stable mounting on flat surfaces. Provided complete with stainless-steel fixings to attach the pan-tilt to the mount. Arm length 445 mm Load rating 50 kg Mount footprint (W x H) 140 x 174 mm Finish Epoxy powder-coat Colour Off-white (RAL9002)	GBQ:A538255	
VPT990	Heavy-duty pole-adapter for VPT910 wall-mount Heavy-duty aluminium adapter to enable the VPT910 pan-tilt wall-mount to be fitted to round poles and posts. Provided complete with stainless-steel fixings to attach the adapter to pole and the mount to the adapter. Pole diameter 80 ~ 150 mm Load rating 50 kg Dimensions (W x H) 220 x 175 mm Finish Epoxy powder-coat Colour Off-white (RAL9002)	GBQ:A538297	
VCH991	Corner-adapter for VCH900 and VPT900 mounts Medium duty steel adapter to enable the VCH900 housing wall-mount and the VPT900 pan-tilt wall-mount to be fitted to outside corners. Provided complete with stainless-steel fixings to attach the mount to the adapter. Load Rating 35kg Dimensions 215 x 120mm Finish Epoxy powder-coat Colour Off-white (RAL9002)	538 365	

pan-tilt & telemetry equipment

Type	Description / Technical data	Order No.	Datasheet No.
VPT991	Heavy-duty corner-adapter for VPT910 wall-mount Heavy-duty steel adapter to enable the VPT910 pan-tilt wall-mount to be fitted to outside corners. Provided complete with stainless-steel fixings to attach the mount to the adapter. Load Rating 50 kg Dimensions (W x H x D) 295 x 180 x 165 mm Finish Epoxy powder-coat Colour Off-white (RAL9002)	GBQ:A538307	
accessories pan-tilt			
Siemens			
SIMSYS-RX/SCU	FSK data receiver to SCU301/2 This unit, mounted inside the SCU, enables the reception of control commands over private telemetry cables if the distance between the SCU and SIMATRIX is too long for TTY transmission (2 km). - Intended to be used with SIMSYS-TX/SCU, which is fitted in the SIMATRIX SYS. Distance SCU to SIMATRIX Up to 30 km	2GF2207-8BF	
SUT48-RS232	Interface module V.24/RS232 for SUT48 Fits on the SUT48 keyboard an optional RS232 interface (SUT48 standard: TTY interface). Enables direct control of the SIMATRIX SYS, SIMATRIX 648 video matrices.	2GF2400-8DB	
SCU-CU	Service control unit for SCU301/302, without joystick Easy and economic way to make the installation and maintenance of telemetry devices easier. It allows the installer controlling e.g. a pan-tilt-drive on the spot (not from the control centre). Compatible with SCU, SIMATRIX Control elements 17 preset keys to control SCU30x units or SIMATRIX (zooming, focusing, panning and tilting and activating a preset sequence)	2GF2400-8CA	
H-PT40	Heater for pan-tilt PT40 For using the PT40 pan-tilt-drive also under low temperature conditions (suitable for up -40 °C). Power requirements 24 VAc	2GF1708-8AT	
AP-PT40	Autopan for pan-tilt PT40 For running through a preset sequence. Inteded to be used with PT40 and PT40 Pot.	2GF1708-8AU	

pan-tilt & telemetry equipment

Type	Description / Technical data	Order No.	Datasheet No.
Alarmcom			
VRD200-P	<p>Preset card for VRD200-230 receiver-driver</p> <p>Plug-in module for the VRD200-230 to allow storage of up to 14 pre-set pan-tilt and zoom positions. Required for use with VPT100-24P, VPT100-230P, VPT200-24P and VPT200-230P pan-tilt units fitted with preset potentiometers and when using motorised zoom lenses fitted with feed-back potentiometers.</p>	GBQ:A538077	
VCH901	<p>Junction box, IP55 for cabling pan-tilts and housings</p> <p>Weatherproof junction box for enclosing terminal blocks or power supplies complete with four PG9 cable glands for easy wiring. For use with both pan-tilts and fixed housings.</p> <p>Protection rating IP55 Dimensions (W x H x D) 110 x 75 x 150 mm</p>	GBQ:A538080	
VCH901-24	<p>Junction box & 24 Vac PSU, IP55 for pan-tilts and housings</p> <p>As above for technical details but with a 230 VAC to 24 VAC, 10 W power-supply fitted.</p>	GBQ:A538093	

Siemens

LED lighting

SIRED S25

IR illuminator LED, 25°, 60 m, stainless steel

2GF1903-8AT

A24205-A336-B978

The light source used in the illuminator consists of 340 infrared LEDs. The installer can choose between various mounting options (e.g. wall bracket or ceiling mount). To prevent sabotage, the mains cable is routed through the illuminator head and mounting arm. The front cover consists of impact-proof acrylic glass.

Light source	2 x 170 LEDs in parallel
Beam spread	25°
Useable range	Approx. 60 m
Protection rating	IP65
Material	Stainless steel, acrylic glass
Dimensions (W x H x D)	266 x 297 x 260 mm
Power requirements	230 VAC, 75 W



SIRED S50

IR illuminator LED, 50°, 40 m, stainless steel

2GF1903-8AU

A24205-A336-B978

As above for technical details but with the following differences:

Beam spread	50°
Useable range	Approx. 40 m

Siemens

halogen lighting

VIR50-F

IR Illuminator 50 W, flood, 850 nm, 12 V_{AC}

Infrared illuminators are ideal for situations where local restrictions prohibit the use of visible lighting or where visible lighting attracts undesirable activity. Ideal for use with monochrome and day-night cameras. Supplied complete with lamp and 1.5 m cable.

Light source	50 W halogen lamp
Beam spread	40° (H & V)
Useable range	12 m
Protection rating	IP66
Material	Aluminium
Finish	Epoxy powder-coat
Colour	Black
Dimensions (W x H x D)	117 x 130.5 x 120 mm
Weight	0.9 kg
Power requirements	12 V _{AC} , 20 W

GBQ:A538145

A24205-A336-B614



VIR50-S

IR Illuminator 50 W, spot, 850 nm, 12 V_{AC}

As above for technical details but with the following differences:

Light source	50 W halogen lamp
Beam spread	10° (H & V)
Useable range	15 m

GBQ:A538132

A24205-A336-B614

VIR50-W

IR Illuminator 50 W, wide, 850 nm, 12 V_{AC}

As above for technical details but with the following differences:

Light source	50 W halogen lamp
Beam spread	60° (H & V)
Useable range	9 m

GBQ:A538158

A24205-A336-B614

VIR50-F230

IR Illuminator 50 W, flood, 850 nm, 230 V_{AC}

Infrared illuminators are ideal for situations where local restrictions prohibit the use of visible lighting or where visible lighting attracts undesirable activity. Ideal for use with monochrome and day-night cameras. Supplied complete with lamp and 1.5 m cable.

Light source	50 W halogen lamp
Beam spread	40° (H & V)
Useable range	9 m
Protection rating	IP66
Material	Aluminium
Finish	Epoxy powder-coat
Colour	Black
Dimensions (W x H x D)	117 x 130.5 x 120 mm
Weight	0.9 kg
Power requirements	230 V _{AC} , 50 W

GBQ:A557168

A24205-A336-B614



accessories infrared illumination

Siemens

SIREN-PS

IR photocell for SIREN illuminators, 230 V_{AC}

Photocell suitable for automatic switching on and off of infrared illuminators when lighting levels change. Intended for use both externally or internally with SIREN infrared illuminators.

Adjustment range	Approx. 1 - 1000 Lux
Switching capacity	16 A, 230 V _{AC} max. 1000 W incandescent bulbs
Switch delay	Switch-on: 5 s Switch-off: 30 s
Protection rating	IP54
Dimensions (W x H x D)	90 x 146 x 129 mm

2GF1903-8AG



SIRED-MPT/G**Mounting SIRED G25/G50 on pan-tilts**

For securing a G25 and G50 SIRED illuminator to a horizontal surface or a pan and tilt drive.

2GF1710-8CE**SIRED-MB/S****Mounting block for SIRED S25/S50**

For securing an S25 and S50 SIRED illuminator to a horizontal surface or a pan and tilt drive.

2GF1903-8AV**SIRED-WMB/S****Wall bracket for SIRED S25/S50**

Wall mount bracket for SIRED S25 and S50. Consisting of V2A steel with adjustment base.

2GF1903-8AW**SIRED-PMB/S****Pole bracket for SIRED S25/S50**

Pole mount bracket for SIRED S25 and S50. Consisting of V2A steel with adjustment base.

Pole diameter 108 mm

2GF1903-8AX**Alarmcom****VIR800****PSU 230 to 12 Vac for VIR illuminators**

12 Vac step-down power supply for VIR illuminators in a weatherproof housing.

Output voltage 12 Vac

GBQ:A538161

twisted pair transmission overview chart

	Cable type	Video input & output	Transmitter model	Receiver model		Maximum distance
1 video signal (indoor)	Twisted pair (1 cable)*	1 Vpp, 75 Ohm	TP-TXI1	TP-RXI1:	Indoor	600 m
2 video signals (Tx indoor)	Twisted pair (2 cables)*	1 Vpp, 75 Ohm	TP-TXMOD02	TP-RX02: TP-RXMOD02:	Outdoor (IP54) Indoor	1.5 km**
2 video signals (Tx outdoor)	Twisted pair (2 cables)*	1 Vpp, 75 Ohm	TP-TX02	TP-RX02: TP-RXMOD02:	Outdoor (IP54) Indoor	1.5 km**
4 video signals (Tx indoor)	Twisted pair (4 cables)*	1 Vpp, 75 Ohm	2 x TP-TXMOD02	TP-RX04: 2 x TP-RXMOD02:	Outdoor (IP54) Indoor	1.5 km**
4 video signals (Tx outdoor)	Twisted pair (4 cables)*	1 Vpp, 75 Ohm	TP-TX04	TP-RX04: 2 x TP-RXMOD02:	Outdoor (IP54) Indoor	1.5 km**

If you would like to use a TP-TXMOD02 transmitter or a TP-RXMOD02 receiver, then you need the 19" chassis (TP-CH), which provides up to 20 transmitted video signals. There is also the possibility to use the TP-OH outdoor housing (2 modules).

* Twisted pair UTP (CAT 5) AWG 24

** To lengthen the transmission distance up to 3.0 km, use the two-wire intermediate amplifier (TP-AMP2).

Using twisted-pair transmission

In today's transmission systems, there are generally two copper-based cable types used: twisted pair (UTP) and coaxial. Twisted, symmetrical, DC-coupled telecommunications cables, such as telephone cables or CAT5 cables are already frequently present in buildings where video signals have to be transmitted, and free pairs of cores can be used for transmission of the video signals. This is a big advantage, as the existing infrastructure can be used. Termination is fast and easy, and there are no crimping of connectors required. Also, the cables are very thin in diameter, simple to install and low cost.

If interferences (by electric/magnetic stray fields) can be expected on the video transmission cable, the two-wire system may also be used. It's even possible to use multiple core cables. The transmission principle of this system results in it being able to suppress stray interferences far better than a coaxial cable transmission system, ensuring better video quality at lower costs.

It should be remembered that both types of module are required for the two-wire transmission system (transmit and receive modules). Coaxial transmission distances depend strongly from the given circumstances (e.g. interferences) and from the used cable quality. A standard cable is RG59, which can successfully transfer video signals up to 200 m without. RG11, which is thicker and more expensive, of course has a longer range (around 400 m). A further benefit of two-wire transmission is standard transmission distances of up to 1500 m and when using an amplifier, up to 3000 m can be transmitted.

Siemens twisted-pair transmission systems are designed for use both indoors and outdoors. They comprise transmitter and receiver (equalizer) modules, a weatherproof plastic outdoor housing for use of one or two of these modules in one housing, and a 19-inch chassis (indoor) for maximum 10 modules. They include the power supply units matching the plastic housing and the 19-inch chassis.

Siemens

twisted pair

TP-TXI1

Video transmitter twisted pair 1 camera, indoor

The two-wire transmitter TP-TXI1 is suitable for transmitting one video signal on two-wire cables indoors. It converts the non-symmetrical coaxial video signal (e.g. from a CCTV camera) into a symmetrical two-wire signal. The transmission of video signals on two-wire cables offers the user many benefits, ranging from utilization of the existing cable network and real-time transmission. Twisted, symmetrical, DC-coupled telecommunication cables such as telephone lines are suitable as the two-wire cables. The transmission range depends upon the receiver device (up to 600 m with TP-RXI1 indoor receiver). TP-TXI1 comes in a plastic housing with BNC plug for direct connection to CCTV cameras. Easy installation, complete with cable free end for connection to power supply and two-wire transmission cable (approx. 25 cm).

Video input (composite)	1 Vpp, 75 Ohm, asymmetric
Video output (two-wire)	2 Vpp, 130 Ohm, symmetric
Range	Max. 600 m
Dimensions (W x H x D)	80 x 22 x 22 mm
Power requirements	12 Vdc, 0.5 W

2GF5605-8AA

A24205-A336-B782



TP-RXI1

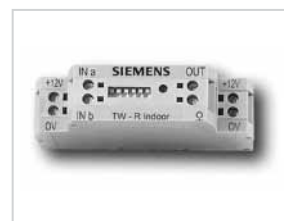
Video receiver twisted pair 1 camera, indoor

Reception of one video signal on two-wire cables. Can be connected to the two-wire transmitter TP-TXI1, with a range of up to 600 m. Compact design, plastic housing with screw connections. Simple installation: in standard distribution boxes and cabinets, can be snapped onto EN rails. Fast, easy adjustment of the transmission line using DIP switches, no additional measuring instruments required.

Video input (two-wire)	2 Vpp, 130 Ohm, symmetric
Video output (composite)	1 Vpp, 75 Ohm, asymmetric
Range	Max. 600 m
Dimensions (W x H x D)	80 x 20 x 70 mm
Power requirements	12 Vdc, 0.75 W

2GF5605-8BB

A24205-A336-B782



TP-TX02

Video transmitter twisted pair 2 cameras, outdoor

The TP-TX02 is a double transmitter module, able to transmit up to two video signals over two-wire cables. Complete in a weatherproof outdoor housing, including power supply unit. Connects to TP-RX02 receiver.

Video input (composite)	1 Vpp into 75 Ohm, asymmetric
Video output (two-wire)	2, 2.4, 2.8, 3.2 Vpp into 124 Ohm, symmetric
Range	<1500 m with wire diameter 0.8 mm, PE-insulated with pre-emphasis switched on in the transmitter
Signal/noise ratio	>60 dB at 0 dB equalization, with weighting
Dimensions (W x H x D)	266 x 105 x 120 mm
Power requirements	115 VAC / 230 VAC, 20 W

2GF5604-8AA

A24205-A336-B789







TP-TX04

Video transmitter twisted pair 4 cameras, outdoor




As above but with two double transmitter modules to transmit up to 4 video signals. Connects to TP-RX04 receiver.

2GF5604-8AB

A24205-A336-B789

Type	Description / Technical data	Order No.	Datasheet No.
TP-RX02	Video receiver twisted pair 2 cameras, outdoor <p>The TP-RX02 is a double receiver module, able to receive up to two video signals over two-wire cables. Complete in a weatherproof outdoor housing, including power supply unit. Connects to TP-TX02 transmitter.</p> <p>Video input (two-wire) 1.4 - 3.2 Vpp into 124 Ohm, symmetric</p> <p>Video output (composite) 1 Vpp into 75 Ohm, asymmetric (amplitude manually adjustable)</p> <p>Range <1500 m with wire diameter 0.8 mm, PE-insulated with pre-emphasis switched on in the transmitter</p> <p>Signal/noise ratio >60 dB at 0 dB equalization, with weighting</p> <p>Dimensions (W x H x D) 266 x 105 x 120 mm</p> <p>Power supply 115 VAC / 230 VAC, 20 W</p>	2GF5604-8AC	A24205-A336-B789
			
TP-RX04	Video receiver twisted pair 4 cameras, outdoor <p>As above but with two double receiver modules to receive up to 4 video signals. Connects to TP-TX04 transmitter.</p>	2GF5604-8AD	A24205-A336-B789
TP-AMP2	Twisted pair amplifier (repeater) 2 cameras, outdoor <p>Two-wire intermediate amplifier (repeater) in a weatherproof housing, including power supply unit. Including one double receiver module plus one double transmitter module, able to amplify (repeat) two video signals. As TP-TX02 and TP-RX02 for technical details.</p> <p>Range Extends the range to up to 3 km.</p> <p>Dimensions (W x H x D) 266 x 105 x 120 mm</p> <p>Power supply 115 VAC / 230 VAC, 20 W</p>	2GF5604-8AE	A24205-A336-B789
			
TP-TXMOD02	Video transmitter twisted pair module 2 cameras, indoor <p>Transmitter module for 2 video signals, suitable for mounting in TP-CH 19" chassis. Can be mounted outdoors with the TP-OH weatherproof housing. Connects to TP-RXMOD02 receiver.</p> <p>Video input (composite) 1 Vpp 75 Ohm, asymmetric</p> <p>Video output (two-wire) 2, 2.4, 2.8, 3.2 Vpp into 124 Ohm, symmetric</p> <p>Range <1500 m with wire diameter 0.8 mm, PE-insulated with pre-emphasis switched on in the transmitter</p> <p>Signal/noise ratio >60 dB at 0 dB equalization, with weighting</p> <p>Dimensions (W x H x D) 100 x 30 x 160 mm</p> <p>Power supply Directly from chassis</p>	2GF5604-8BA	A24205-A336-B789
			
TP-RXMOD02	Video receiver twisted pair module 2 cameras, indoor <p>Receiver module for 2 video signals, suitable for mounting in TP-CH 19" chassis. Can be mounted outdoors with the TP-OH weatherproof housing. Connects to TP-TXMOD02 transmitter.</p> <p>Video input (two-wire) 1.4 - 3.2 Vpp into 124 Ohm, symmetric</p> <p>Video output (composite) 1 Vpp 75 Ohm, asymmetric (amplitude manually adjustable)</p> <p>Range <1500 m with wire diameter 0.8 mm, PE-insulated with pre-emphasis switched on in the transmitter</p> <p>Signal/noise ratio >60 dB at 0 dB equalization, with weighting</p> <p>Dimensions (W x H x D) 100 x 30 x 160 mm</p> <p>Power supply Directly from chassis</p>	2GF5604-8BB	A24205-A336-B789
			

video transmission

Type	Description / Technical data	Order No.	Datasheet No.
TP-CH	<p>Twisted pair 19" 3U chassis for 10 modules + PSU, indoor</p> <p>Use of the 19" chassis is recommended when using the transmission system indoors or if several modules are located at one point. A maximum of 10 modules and the included ± 5 VDC power supply unit can be fitted. Each module is provided with the associated front panel, and two guide rails are used in the chassis for each module.</p> <p>Video input Asymmetric: SMB plug Symmetric: terminal strip</p> <p>Video output Asymmetric: SMB plug Symmetric: terminal strip</p> <p>Power requirements 90 - 240 VAC, 40 W</p> <p>Dimensions 482 x 133 x 250 mm</p>	2GF5608-8BA	A24205-A336-B789
			
TP-CHDP	<p>Twisted pair set of dummy panels for TP-CH</p> <p>Dummy panel set for covering unused module slots in TP-CH 19" chassis, includes:</p> <p>4 x dummy panels 12 modular spacings (2 module slots)</p> <p>2 x dummy panels 6 modular spacings (1 module slot)</p>	2GF5608-8BB	A24205-A336-B789
			
TP-OH	<p>Twisted pair outdoor housing + PSU for TP-TXMOD/TP-RXMOD</p> <p>Outdoor housing for up to two modules of TP-TXMOD02 and TP-RXMOD02, including power supply unit. The plastic housing is recommended when using the transmission system outdoors.</p> <p>Overvoltage protection Two-wire connections protected by gas discharge beads</p> <p>Protection rating IP54</p> <p>Power supply 115 VAC / 230 VAC, 20 W</p> <p>Dimensions (W x H x D) 266 x 105 x 120 mm</p> <p>See "system diagrams" at back of catalogue for connections.</p>	2GF5608-8BC	A24205-A336-B789
			



product overview

fibre optic transmission overview chart

	Fibre type	Number of fibres	Wavelength	Transmitter Model		Receiver Model		Optical Power Budget			Maximum distance	
				Surface mounted	Rack mounted	Surface mounted	Rack mounted	9 / 125 µm	50 / 125 µm	62.5 / 125 µm	9 / 125 µm	50/125 or 62.5/125 µm
Video only	Multimode 50/125 µm 62.5/125 µm	1	850 nm	CTF1111-SM	--	CTF2111-SM	CTF2211-RM	--	10 dB	14 dB	--	4 km
Video only	Single mode 9/125 µm	1	1300 nm	CTF1141-SM	--	--	CTF2141-RM	17 dB	--	--	49 km	--
Video only Dual channel	Multimode 50/125 µm 62.5/125 µm	2	850 nm	--	CTF1211-RM	CTF2111-SM	CTF2211-RM	--	10 dB	14 dB	--	4 km
Video & TTY	Multimode 50/125 µm 62.5/125 µm	2	850 nm	CTF6211-SM	--	--	CTF7211-RM	--	10 dB	14 dB	--	4 km
Video & TTY	Multimode 50/125 µm 62.5/125 µm	1	850 / 1300 nm	CTF6131-SM	--	--	CTF7131-RM	--	10 dB	14 dB	--	4 km
Video & TTY	Single mode 9/125 µm	1	1300 nm	CTF8241-SM	--	--	CTF9241-RM	23 dB	--	--	69 km	--
Video & RS232/422	Multimode 50/125 µm 62.5/125 µm	1	850 / 1300 nm	--	CTF6131-RM	CTF7131-SM	--	--	10 dB	14 dB	--	4 km
TTY only	Multimode 50/125 µm 62.5/125 µm	2	850 nm	CTF5211-SM transceiver	--	--	CTF5211-RM transceiver	--	10 dB	14 dB	--	4 km
TTY only Dual channel	Multimode 50/125 µm 62.5/125 µm	2	850 nm	--	CTF3211-RM	For special system design. Can be used with CTF6211-SM		--	10 dB	14 dB	--	4 km

Using fibre optic transmission

The use of coax to transmit video pictures is usually the limiting part of any video surveillance system; with RG59 cable, up to 200 m and using RG11 around 400 m is recommended. At these distances it may be possible to notice picture degradation, infact the picture starts to lose its signal as soon as it is transmitted over coaxial cable.

Fibre optics is probably the most powerful way to transmit a video picture and telemetry control securely from the camera to the local viewing point (e.g. a monitor or digital recorder). It has been used successfully in telecommunications for many years and is becoming more and more popular in CCTV:

- Huge bandwidth
- High immunity to electro-magnetic interference or radio frequency (EMI, RFI)
- Secure transmission over long distances
- Full compatibility with Siemens telemetry devices
- Transmission up to 4 km using Multimode fibre
- Transmission up to 69 km using Single mode fibre

The benefit to using optical fibre is that it offers a secure medium that is virtually impossible to tap, plus it also eliminates ground loops caused by earth potentials often found in CCTV. It also offers a superior signal even in environments that are subject to hostile Electromagnetic Interference (EMI) or Radio Frequency Interference (RFI). Faultless performance is therefore assured in almost all circumstances. Please remember that if no fibre cable is present, a trained fibre optic installer must perform this task.

Siemens

fibre optic

CTF1111-SM

Mini video transmitter, 850 nm

The CTF1111-SM Video Mini Transmitter provides transmission of a fixed video signal using AM modulation on one multimode fibre optic cable. Plug and Play design ensures ease of installation requiring no electrical or optical adjustments. The transmitter incorporates a power status indicating LED.

Signal-to-Noise ratio	60 dB
Number of fibres	1
Fibre diameter	62.5/125 µm or 50/125 µm
Optical power budget	14 dB (10 dB for 50/125 µm fibre)
Max. distance	4 km
Dimensions (W x H x D)	84 x 42 x 28 mm
Power requirements	9 - 12 V _{DC} , 1.8 W

2GF5406-8CA

A24205-A336-B633



CTF2111-SM

Video receiver, 850 nm

The CTF2111-SM video receiver is designed to receive optical signals from a compatible transmitter with a Closed Circuit Television (CCTV) video input, as well as convert the optical signals back to the original electrical video signal. A gain adjustment setting is provided to allow a manual optimization of the video image. It operates over 62.5/125 µm (or 50/125 µm) multimode fibre optic cable. Plug and Play design ensures ease of installation. The receiver incorporates a power status indicating LED for monitoring proper system operation.

Signal-to-Noise ratio (SNR)	60 dB typical, 54 dB minimum
Number of fibres	1
Fibre diameter	62.5/125 µm or 50/125 µm
Optical power budget	14 dB (10 dB for 50/125 µm fibre)
Max. distance	4 km
Dimensions (W x H x D)	135 x 88 x 29 mm
Power requirements	10 - 12 V _{DC} , 1.8 W

2GF5406-8CG

A24205-A336-B630



CTF1141-SM

Mini video transmitter, 1300 nm

The CTF1141-SM Mini Video Transmitter transmits a fixed video signal using frequency modulation (FM) on one single mode fibre optic cable. The transmitter is compatible with the CTF2141-RM receiver. Allows long transmission distances with 1300 nm wavelength. Plug and Play design ensures ease of installation requiring no electrical or optical adjustments. The module incorporates a power status indicating LED for monitoring proper system operation.




Signal-to-Noise ratio	60 dB minimum (at maximum attenuation)
Number of fibres	1
Fibre diameter	9/125 µm
Optical power budget	17 dB
Max. distance	49 km
Dimensions (W x H x D)	97 x 58 x 27 mm
Power requirements	12 V _{DC} , 2.4 W

2GF5407-8CC

A24205-A336-B620



See "system diagrams" at back of catalogue for connections.

Type	Description / Technical data	Order No.	Datasheet No.														
CTF2141-RM	<p>Video receiver, module, 1300 nm</p> <p>The CTF2141-RM Video Receiver utilizes pulsed frequency modulation for transmission quality that meets the requirements of EIA RS-250C for Short-Haul Video Transmission. This environmentally-hardened unit provides transmission of NTSC, PAL or SECAM video over one single mode optical fibre and is ideal for use in unconditioned out-of-plant or roadside installations. Plug and Play design ensures ease of installation requiring no electrical or optical adjustments. The module incorporates status indicating LEDs for monitoring proper system operation.</p> <table><tr><td>Signal-to-Noise ratio</td><td>60 dB</td></tr><tr><td>Number of fibres</td><td>1</td></tr><tr><td>Fibre diameter</td><td>9/125 µm</td></tr><tr><td>Optical power budget</td><td>17 dB</td></tr><tr><td>Max. distance</td><td>49 km</td></tr><tr><td>Dimensions (W x H x D)</td><td>199 x 129 x 25 mm</td></tr><tr><td>Power supply</td><td>Directly from chassis</td></tr></table>	Signal-to-Noise ratio	60 dB	Number of fibres	1	Fibre diameter	9/125 µm	Optical power budget	17 dB	Max. distance	49 km	Dimensions (W x H x D)	199 x 129 x 25 mm	Power supply	Directly from chassis	2GF5407-8CD	A24205-A336-B619
Signal-to-Noise ratio	60 dB																
Number of fibres	1																
Fibre diameter	9/125 µm																
Optical power budget	17 dB																
Max. distance	49 km																
Dimensions (W x H x D)	199 x 129 x 25 mm																
Power supply	Directly from chassis																
																	
CTF1211-RM	<p>Dual video transmitter, module, 850 nm</p> <p>The CTF1211-RM dual video transmitter provides transmission of two independent fixed video signals in one module utilizing AM modulation on two independent multimode fibre optic cables. The module is ideal for smaller CCTV installations and can be used to double the fixed video capacity of the CTF-R3-230 chassis for up to 28 independent video channels per card cage. Plug and Play design ensures ease of installation requiring no electrical or optical adjustment. The module incorporates a power and channel A and B sync detect status indicating LED for monitoring proper system operation.</p> <table><tr><td>Signal-to-Noise Ratio</td><td>60 dB typical, 54 dB minimum</td></tr><tr><td>Number of fibres</td><td>2</td></tr><tr><td>Fibre diameter</td><td>62.5/125 µm or 50/125 µm</td></tr><tr><td>Optical power budget</td><td>14 dB (10 dB for 50/125 µm fibre)</td></tr><tr><td>Max. distance</td><td>4 km</td></tr><tr><td>Dimensions (W x H x D)</td><td>198 x 129 x 25 mm</td></tr><tr><td>Power supply</td><td>Directly from chassis</td></tr></table>	Signal-to-Noise Ratio	60 dB typical, 54 dB minimum	Number of fibres	2	Fibre diameter	62.5/125 µm or 50/125 µm	Optical power budget	14 dB (10 dB for 50/125 µm fibre)	Max. distance	4 km	Dimensions (W x H x D)	198 x 129 x 25 mm	Power supply	Directly from chassis	2GF5406-8CJ	A24205-A336-B632
Signal-to-Noise Ratio	60 dB typical, 54 dB minimum																
Number of fibres	2																
Fibre diameter	62.5/125 µm or 50/125 µm																
Optical power budget	14 dB (10 dB for 50/125 µm fibre)																
Max. distance	4 km																
Dimensions (W x H x D)	198 x 129 x 25 mm																
Power supply	Directly from chassis																
																	
CTF2211-RM	<p>Dual video receiver, module, 850 nm</p> <p>The CTF2211-RM dual video receiver detects two independent AM video signals in one module on two independent multimode fibre optic cables. The module is ideal for smaller CCTV installations and can be used to double the fixed video capacity of the CTF-R3-230 chassis for up to 28 independent video channels per card cage. The module utilizes manual gain control. Plug and Play design ensures ease of installation. The module incorporates power and sync detect status indicating LEDs for monitoring proper system operation.</p> <table><tr><td>Signal-to-Noise ratio</td><td>60 dB typical, 54 dB minimum</td></tr><tr><td>Number of fibres</td><td>2</td></tr><tr><td>Fibre diameter</td><td>62.5/125 µm or 50/125 µm</td></tr><tr><td>Optical power budget</td><td>14 dB (10 dB for 50/125 µm fibre)</td></tr><tr><td>Max. distance</td><td>4 km</td></tr><tr><td>Dimensions (W x H x D)</td><td>197 x 129 x 25 mm</td></tr><tr><td>Power supply</td><td>Directly from chassis</td></tr></table> <p>See "system diagrams" at back of catalogue for connections.</p>	Signal-to-Noise ratio	60 dB typical, 54 dB minimum	Number of fibres	2	Fibre diameter	62.5/125 µm or 50/125 µm	Optical power budget	14 dB (10 dB for 50/125 µm fibre)	Max. distance	4 km	Dimensions (W x H x D)	197 x 129 x 25 mm	Power supply	Directly from chassis	2GF5406-8CH	A24205-A336-B631
Signal-to-Noise ratio	60 dB typical, 54 dB minimum																
Number of fibres	2																
Fibre diameter	62.5/125 µm or 50/125 µm																
Optical power budget	14 dB (10 dB for 50/125 µm fibre)																
Max. distance	4 km																
Dimensions (W x H x D)	197 x 129 x 25 mm																
Power supply	Directly from chassis																
																	

video transmission

Type

Description / Technical data

Order No.

Datasheet No.

CTF6211-SM**Mini video transmitter, TTY receiver, 850 nm**

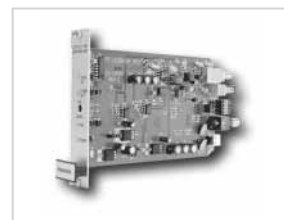
The CTF6211-SM Video Mini Transmitter and Current Loop Receiver supports the simultaneous transmission of video and one way return Current Loop over two multimode optical fibres. Plug and Play design ensures ease of installation requiring no electrical or optical adjustments. Compatible with Siemens Camera Control Units and Siemens Keyboards.

Signal-to-Noise ratio	>55 dB at 10 dB attenuation
Number of fibres	2
Fibre diameter	62.5/125 µm or 50/125 µm
Optical power budget	14 dB (10 dB for 50/125 µm fibre)
Max. distance	4 km
Dimensions (W x H x D)	87 x 57 x 29 mm
Power requirements	12 V _{DC} , 2.4 W

2GF5406-8CC A24205-A336-B629**CTF7211-RM****Video receiver, TTY transmitter, module, 850 nm**

The CTF7211-RM video receiver and Current Loop transmitter supports the simultaneous transmission of video and one way return Current Loop over two multimode optical fibres. Plug and Play design ensures ease of installation requiring no electrical or optical adjustments. The module incorporates power, video presence, data and AGC status indicating LEDs to monitor proper system operation. Compatible with Siemens Camera Control Units and Siemens Keyboards.

Signal-to-Noise ratio	>55 dB at 10 dB attenuation
Number of fibres	2
Fibre diameter	62.5/125 µm or 50/125 µm
Optical power budget	14 dB (10 dB for 50/125 µm fibre)
Max. distance	4 km
Dimensions (W x H x D)	199 x 129 x 25 mm
Power supply	Directly from chassis

2GF5406-8CF A24205-A336-B628**CTF6131-SM****Video transmitter, TTY receiver, 850 nm**

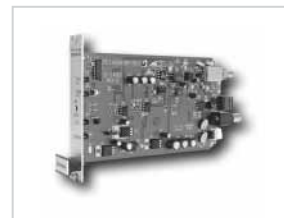
The CTF6131-SM video transmitter and Current Loop receiver supports the simultaneous transmission of video and one way return Current Loop over one multimode optical fibre. Plug and Play design ensures ease of installation requiring no electrical or optical adjustments. The module incorporates power, video presence, data (TTY) and AGC status indicating LEDs to monitor proper system operation. Compatible with Siemens Camera Control Units.

Signal-to-Noise ratio	>55 dB at 10 dB attenuation
Number of fibres	1
Fibre diameter	62.5/125 µm or 50/125 µm
Optical power budget	14 dB (10 dB for 50/125 µm fibre)
Max. distance	4 km
Dimensions (W x H x D)	199 x 124 x 29 mm
Power requirements	11 - 14 V _{DC} , 24 V _{AC} C.T., 2.4 W

2GF5406-8CB A24205-A336-B626**CTF7131-RM****Video receiver, TTY transmitter, module, 850 nm**

The CTF7131-RM video receiver and Current Loop transmitter supports the simultaneous transmission of video and one way return Current Loop over one multimode optical fibre. Plug and Play design ensures ease of installation requiring no electrical or optical adjustments. The module incorporates power, video presence, data (TTY) and AGC status indicating LEDs to monitor proper system operation. Compatible with Siemens Camera Control Units.

Signal-to-Noise ratio	>55 dB at 10 dB attenuation
Number of fibres	1
Fibre diameter	62.5/125 µm or 50/125 µm
Optical power budget	14 dB (10 dB for 50/125 µm fibre)
Max. distance	4 km
Dimensions (W x H x D)	199 x 129 x 25 mm
Power supply	Directly from chassis

2GF5406-8CE A24205-A336-B625

See "system diagrams" at back of catalogue for connections.

Type	Description / Technical data	Order No.	Datasheet No.														
CTF8241-SM	<p>Video transmitter, data receiver, TTY, 1300 nm</p> <p>The CTF8241-SM Video Transmitter supports the simultaneous transmission of frequency modulation (FM) video and one way return data over one single mode optical fibre. Allows long transmission distances with 1300 nm wavelength. Plug and Play design ensures ease of installation requiring no electrical or optical adjustments.</p> <table><tr><td>Signal-to-Noise ratio</td><td>55 dB at 10 dB attenuation</td></tr><tr><td>Number of fibres</td><td>1</td></tr><tr><td>Fibre diameter</td><td>9/125 µm</td></tr><tr><td>Optical power budget</td><td>23 dB</td></tr><tr><td>Max. distance</td><td>69 km</td></tr><tr><td>Dimensions (W x H x D)</td><td>199 x 124 x 29 mm</td></tr><tr><td>Power requirements</td><td>12 Vdc, 3.6 W</td></tr></table>	Signal-to-Noise ratio	55 dB at 10 dB attenuation	Number of fibres	1	Fibre diameter	9/125 µm	Optical power budget	23 dB	Max. distance	69 km	Dimensions (W x H x D)	199 x 124 x 29 mm	Power requirements	12 Vdc, 3.6 W	2GF5407-8CA	A24205-A336-B617
Signal-to-Noise ratio	55 dB at 10 dB attenuation																
Number of fibres	1																
Fibre diameter	9/125 µm																
Optical power budget	23 dB																
Max. distance	69 km																
Dimensions (W x H x D)	199 x 124 x 29 mm																
Power requirements	12 Vdc, 3.6 W																
																	
CTF9241-RM	<p>Video receiver, data transmitter, TTY, module, 1300 nm</p> <p>The CTF9241-RM is compatible to the Siemens CTF8241-SM Video Transmitter.</p> <table><tr><td>Signal-to-Noise ratio</td><td>55 dB at 10 dB attenuation</td></tr><tr><td>Number of fibres</td><td>1</td></tr><tr><td>Fibre diameter</td><td>9/125 µm</td></tr><tr><td>Optical power budget</td><td>23 dB</td></tr><tr><td>Max. distance</td><td>69 km</td></tr><tr><td>Dimensions (W x H x D)</td><td>199 x 129 x 25 mm</td></tr><tr><td>Power supply</td><td>Directly from chassis</td></tr></table>	Signal-to-Noise ratio	55 dB at 10 dB attenuation	Number of fibres	1	Fibre diameter	9/125 µm	Optical power budget	23 dB	Max. distance	69 km	Dimensions (W x H x D)	199 x 129 x 25 mm	Power supply	Directly from chassis	2GF5407-8CB	A24205-A336-B616
Signal-to-Noise ratio	55 dB at 10 dB attenuation																
Number of fibres	1																
Fibre diameter	9/125 µm																
Optical power budget	23 dB																
Max. distance	69 km																
Dimensions (W x H x D)	199 x 129 x 25 mm																
Power supply	Directly from chassis																
																	
CTF6131-RM	<p>Video transmitter, RS232/422 receiver, module, 850/1300 nm</p> <p>The CTF6131-RM video transmitter and data receiver supports the simultaneous transmission of video and one-way return data over one multimode optical fibre. The module supports RS-232 and RS-422 data interfaces and all major data protocols. Plug and Play design ensures ease of installation requiring no electrical or optical adjustment. The module incorporates power, video presence and data out status indicating LEDs for monitoring proper system operation.</p> <table><tr><td>Signal-to-Noise ratio</td><td>>55 dB at 10 dB attenuation</td></tr><tr><td>Number of fibres</td><td>1</td></tr><tr><td>Fibre diameter</td><td>62.5/125 µm or 50/125 µm</td></tr><tr><td>Optical power budget</td><td>14 dB (10 dB for 50/125 µm fibre)</td></tr><tr><td>Max. distance</td><td>4 km</td></tr><tr><td>Dimensions (W x H x D)</td><td>198 x 129 x 25 mm</td></tr><tr><td>Power supply</td><td>Directly from chassis</td></tr></table>	Signal-to-Noise ratio	>55 dB at 10 dB attenuation	Number of fibres	1	Fibre diameter	62.5/125 µm or 50/125 µm	Optical power budget	14 dB (10 dB for 50/125 µm fibre)	Max. distance	4 km	Dimensions (W x H x D)	198 x 129 x 25 mm	Power supply	Directly from chassis	2GF5406-8CK	A24205-A336-B622
Signal-to-Noise ratio	>55 dB at 10 dB attenuation																
Number of fibres	1																
Fibre diameter	62.5/125 µm or 50/125 µm																
Optical power budget	14 dB (10 dB for 50/125 µm fibre)																
Max. distance	4 km																
Dimensions (W x H x D)	198 x 129 x 25 mm																
Power supply	Directly from chassis																
																	
CTF7131-SM	<p>Video receiver, RS232/422 transmitter, 850/1300 nm</p> <p>The CTF7131-SM video receiver and data transmitter supports the simultaneous transmission of video and one-way return data over one multimode optical fibre. The module supports RS-232 and RS-422 data interfaces and all major data protocols. Plug and Play design ensures ease of installation requiring no electrical or optical adjustment. The module incorporates power, video presence, data out and AGC status indicating LEDs for monitoring proper system operation.</p> <table><tr><td>Signal-to-Noise ratio</td><td>>55 dB at 10 dB attenuation</td></tr><tr><td>Number of fibres</td><td>1</td></tr><tr><td>Fibre diameter</td><td>62.5/125 µm or 50/125 µm</td></tr><tr><td>Optical power budget</td><td>14 dB (10 dB for 50/125 µm fibre)</td></tr><tr><td>Max. distance</td><td>4 km</td></tr><tr><td>Dimensions (W x H x D)</td><td>200 x 124 x 28 mm</td></tr><tr><td>Power requirements</td><td>12 Vdc, 2.4 W</td></tr></table> <p>See "system diagrams" at back of catalogue for connections.</p>	Signal-to-Noise ratio	>55 dB at 10 dB attenuation	Number of fibres	1	Fibre diameter	62.5/125 µm or 50/125 µm	Optical power budget	14 dB (10 dB for 50/125 µm fibre)	Max. distance	4 km	Dimensions (W x H x D)	200 x 124 x 28 mm	Power requirements	12 Vdc, 2.4 W	2GF5406-8CL	A24205-A336-B621
Signal-to-Noise ratio	>55 dB at 10 dB attenuation																
Number of fibres	1																
Fibre diameter	62.5/125 µm or 50/125 µm																
Optical power budget	14 dB (10 dB for 50/125 µm fibre)																
Max. distance	4 km																
Dimensions (W x H x D)	200 x 124 x 28 mm																
Power requirements	12 Vdc, 2.4 W																
																	

CTF5211-SM**Data transceiver, TTY, 850 nm**

The CTF5211-SM is designed to function as a fibre optic current-loop transceiver over two multimode optical fibres. Models within this series are available for use with multimode optical fibre. Plug and Play design ensures ease of installation requiring no electrical or optical adjustments. Each transceiver incorporates power and transmit/receive status indicating LED's for monitoring proper system operation. The module is compatible with Siemens Camera Control Units and Siemens Keyboards.

Number of fibres	2
Fibre diameter	62.5/125 µm or 50/125 µm
Optical power budget	14 dB (10 dB for 50/125 µm fibre)
Max. distance	4 km
Dimensions (W x H x D)	132 x 89 x 29 mm
Power requirements	12 VDC, 1.8 W

2GF5406-8CM A24205-A336-B624**CTF5211-RM****Data transceiver, TTY, module, 850 nm**

As above for technical details but rack module version.

Dimensions (W x H x D)	193 x 129 x 25 mm
Power supply	Directly from chassis

2GF5406-8CN A24205-A336-B623**CTF3211-RM****Dual TTY transmitter, module, 850 nm**

The CTF3211-RM Current Loop transmitter (TTY) provides transmission of two Current Loop signals on two independent multimode fibre optic cables. The module is ideal for smaller installations, the rack-mount version can be used to double the capacity of the CTF-RM - 230 chassis for up to 28 independent channels per card cage. Plug and Play design ensures ease of installation requiring no electrical or optical adjustments. The module incorporates a power and 2 Data Transmit status indicating LEDs to monitor proper system operation. Compatible with Siemens Camera Control Units.

Signal-to-Noise ratio	>55 dB at 10 dB attenuation
Number of fibres	2
Fibre diameter	62.5/125 µm or 50/125 µm
Optical power budget	14 dB (10 dB for 50/125 µm fibre)
Max. distance	4 km
Dimensions (W x H x D)	194 x 129 x 25 mm
Power supply	Directly from chassis

2GF5406-8CD A24205-A336-B627

See "system diagrams" at back of catalogue for connections.

Type	Description / Technical data	Order No.	Datasheet No.	
CTF-RM-230	19" Chassis, 230 VAc	2GF5408-8CA	A24205-A336-B618	
	Basic chassis for the Siemens fibre optics system. Up to 14 fibre optic modules and a power supply unit can be fitted in the chassis. Supplied with standard 230 VAc power supply.			
	Slots			14 modules (power supply module installed)
	Fusing			500 mA slow blow (Chassis power supply), modules individually electronically fused
	AC Line Cord			Detachable, IEC-connectorized (easy field replacement or exchange for various worldwide AC power plug configurations)
	Power supply to plug-in modules	20 VAc C.T.		
	Dimensions (W x H x D)	482 x 131 x 210 mm		
	Power requirements	230 VAc		
CTF-PS-230	Spare power supply for 19" chassis	2GF5408-8CB		
	230 VAc power supply for the 19"-chassis. Covers 2 slots.			
CTF-RM-BP	Blank panel set for 19" chassis	2GF5408-8CC**		
	For filling the non-used slots of the 19"-chassis.			
	See "system diagrams" at back of catalogue for connections.			

Siemens

Web Server



LAN / ethernet transmission

TELSCAN Web Server, transmitter over LAN, 4 cameras

Works via LAN, transmitting high quality pictures for up to 4 cameras, to be displayed on any PC connected to LAN using Internet Explorer or Netscape Navigator. Includes PTZ control of dome cameras or pan tilt controllers. No additional hardware or software is required; the TELSCAN Web Server acts as a completely autonomous component in the network. Ideal for monitoring, or providing "Virtual Tours" of business premises, or acting as a "Virtual Receptionist". Software tools supplied include "IP Manager" for searching and launching TELSCAN Web Servers in a web browser, plus "Live Player" that opens pictures as a mini-TV screen on the desk top without using a web browser.

Video inputs	4 x BNC (75 Ohm)
Camera resolution	JPEG format; 176 x 144, 352 x 288 (up to 25 ips.) and 704 x 576 (individual pictures)
Network systems	Systems with TCP/IP and HTTP browsers (e.g. Netscape Navigator or Microsoft Internet Explorer)
Protocols	ARP, BOOTP/DHCP, TCP, IP, HTTP, SMTP, ICMP, FTP, DNS
Installation	IP address adjustable using ARP, BOOTP/DHCP, connection to Ethernet
Network management	Configuration and status using standard HTTP browser
Picture formats	Server push for pictures with live updating, JPEG individual pictures
Network connections	Ethernet 10/100baseT, RJ45 (twisted pair)
Security	Password protection
Software updates	Central flash memory or remote via the network using FTP via TCP/IP
Programming	Event-controlled or time-controlled functions (e.g. by e-mail)
Inputs and outputs	1 x opto-isolated input, 1 x opto-isolated output
Serial connections	RS232G (8-pin mini DIN)
Dimensions (W x H x D)	68 x 33 x 148/166 mm
Power supply	12 Vdc, 8.3 W (external PSU supplied)

2GF5502-8DA

A24205-A336-B722

**TELSCAN-RS232 RS232 cable for TELSCAN Web Server**

Serial cable for connecting the TELSCAN Web Server to SIMATRIX, dome or PTZ camera. One end with 8-pin mini DIN plug, the other end with 25-pin SUB-D plug.

Cable length	2 m
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2GF5502-8DB



See "system diagrams" at back of catalogue for connections.

Siemens

video motion detection

TELEMAT-MD

TELEMAT Motion detection module

2GF6111-8AB

A24205-A336-B865

TELEMAT is an advanced video motion detection system. Applications range from outdoors tasks such as monitoring of fences or protection of grounds up to tasks associated with production control and quality assurance. Unmanned outstations can be monitored reliably and cheaply using TELEMAT. The alarm pictures are transmitted e.g. via LAN using the TELSCAN Web Server system to permit verification by the user. TELEMAT supports the security personnel by providing electronic reliability round the clock, 365 days a year.

The TELEMAT-MD digitizes the picture from the video camera and stores this as a reference picture. All sub-sequent video pictures are compared with this reference. The user can easily program which zones in the original picture are to be classified as "dangerous". Objects which trigger an alarm are brightened-up on the monitor and remain displayed in this manner until acknowledged.

Operating voltage	5 Vdc \pm 5 %
Video standard	CCIR/PAL: 625 lines, 50 fields/s EIA/NTSC: 525 lines, 60 fields/s
Video input	1 Vpp \pm 25 % into 75 Ohm
Video output	1 Vpp \pm 25 % into 75 Ohm
Video bandwidth	10 MHz
Status inputs	2, floating via opto-isolators
Status outputs	2, floating via relays
Signal/noise ratio	65 dB
Dimensions (W x H x D)	6 mod. spacings x 3 HU x 230 mm
Power requirements	Directly from chassis



TELEMAT-MTD

TELEMAT Motion tracking detection module

2GF6111-8AG

A24205-A336-B865

The TELEMAT-MTD reacts to changes in scenes, localises them, and evaluates them. It continuously monitors by carrying out 25 evaluations of the scene per second. The scene to be monitored is marked and activated using the mouse. As above for technical details.

TELEMAT-I/O

TELEMAT 10x input, 10x output I/O board

2GF6111-8AC

A24205-A336-B865

Number	Max. 1 per subrack
Status inputs	14, floating via opto-isolators
Status outputs	10, floating via relays
Power requirements	Directly from chassis



video motion detection

Type

Description / Technical data

Order No.

Datasheet No.

TELEMAT-CH**TELEMAT MD/MTD 10x chassis 19" 3U, PSU, data**

Basic chassis for max. 10 TELEMAT motion detection modules.
Supplied with fitted 230 V_{AC} power supply.

Modules	Max. 10 modules
Video input (per module)	1 V _{pp} ± 25 % into 75 Ohm
Video output (per module)	1 V _{pp} ± 25 % into 75 Ohm
Video buses	2, with one output each
Video bandwidth	10 MHz
External interfaces	1 x RS485, 2 x RS232C
Alarm picture storage unit	32 pictures at 640 x 256 pixels
Signal/noise ratio	65 dB
Dimensions (W x H x D)	19 inch x 3 HU x 300 mm
Power requirements	207 - 253 V _{AC} , approx. 69 W

2GF6111-8AF**A24205-A336-B865****TELEMAT-CHE****TELEMAT 10x extension chassis 19" 3U with PSU**

Extension chassis for the TELEMAT-CH for 10 additional modules.
The system may contain at maximum 30 modules, i. e. 1 complete chassis and 2 extension chassis.

Modules	max. 10 modules
Dimensions (W x H x D)	19 inch x 3 HU x 300 mm
Power requirements	207 - 253 V _{AC} , approx. 69 W

2GF6111-8AH**A24205-A336-B865**

Siemens**monochrome quads****VQD100-RT****Quad real-time monochrome**

Simple, cost effective surveillance solution for small systems of up to four cameras. An intuitive user interface enables manual or automatic sequencing of all connected cameras in full-screen and quad format.

Camera inputs	4 x BNC, 75 Ohm
Monitor display	Real-time quad / full screen
VCR output	Yes
Sequencing	Quad, cameras 1 ~ 4
Dwell time	Adjustable 0 ~ 99 s
Resolution	720 (H) x 576 (V) pixels
Alarm inputs	1 per camera
Alarm output relay	1 x Form-C (C,NO,NC), 24 Vdc, 1 A
Dimensions (W x H x D)	285 x 44 x 235 mm
Power requirements	12 - 24 VAC/DC, 5 W (230 VAC adapter supplied)

2GF2001-8AE**A24205-A336-A645****colour quads****Siemens****VQD300-RT****Quad real-time colour**

Simple, cost effective surveillance solution for small systems of up to four cameras. An intuitive user interface enables manual or automatic sequencing of all connected cameras in full-screen and quad format.

Camera inputs	4 x BNC, 75 Ohm
Monitor display	Real-time quad / full screen
VCR output	Yes
Sequencing	Quad, cameras 1 ~ 4
Dwell time	Adjustable 0 ~ 99 s
Resolution	720 (H) x 576 (V) pixels
Alarm inputs	1 per camera
Alarm output relay	1 x Form-C (C,NO,NC), 24 Vdc, 1 A
Dimensions (W x H x D)	285 x 44 x 235 mm
Power requirements	12 - 24 VAC/DC, 7 W (230 VAC adapter supplied)

2GF2001-8AF**A24205-A336-A645****CQP4****Quad real-time colour, professional**

The CQP4 colour quad system is the ideal multiple surveillance camera system for CCTV applications and is virtually compatible with any 2:1 interlace type camera. The CQP4 displays up to 4 surveillance pictures, with border, on a single monitor. Excellent colour picture quality is produced by 8-bit/14.3MHz sampling. On-screen alphanumeric identification (8-picture ID characters) details camera location.

Video inputs	4 x BNC
Video outputs	1 x BNC
Internal synchronisation	2:1 interlace; horizontal: 15.734 kHz; vertical: 60 Hz
Refresh rate	60 Hz
Frame Memory	Sampling frequency: 14.3 MHz Quantizing bit: 8-bit Pixels: 720 x 484
Alarm inputs	1 per camera (max. 12 Vdc and a make-contact with the ground)
Alarm output relay	1 (24 Vdc, 100 mA, open collector circuit)
Alarm time	Adjustable
Title	Up to 8 characters for each window
Dimensions (W x H x D)	44 x 420 x 350 mm
Power requirements	230 VAC, 13 W

2GF2001-8AC

Siemens**sequential switchers****CSUA8210****Sequential switcher 8x2, 230 V_{AC}, with keyboard, IVM connect****2GF2203-8FA****A24205-A336-B762**

The video switcher CSUA8210 can switch video signals from up to 8 video signal sources to 2 output channels (monitors 1 and 2) via an internal matrix. The assignment between the video input and output channels is made either manually or automatically, or controlled by alarm signals. User-friendly operation and a compact design characterize the device. All settings are made using the on-screen display (OSD) on the connected monitor. The video switcher is an effective, economical solution particularly for smaller video surveillance systems. Can be controlled via IVM management software.

Camera inputs	8 x BNC
Monitor output	2 x BNC
Dwell Time	0 - 240 s
IVM connectivity	Yes
Dimensions (W x H x D)	225 x 30/50 x 170 mm
Power requirements	10.8 - 13.2 V _{DC} , regulated, 4.8 W (230 V _{AC} adapter supplied)

**VSS004-1M****Desktop sequential switcher 4x1, PAL/NTSC, 230 V_{AC}****GBQ:A541271**

Cost effective sequential switcher with four camera inputs and one monitor output. Individual cameras can be manually selected for display or automatically sequenced with a common adjustable dwell time. Inputs without a connected camera can be "skipped".

Camera inputs	4 x BNC, 75 Ohm
Monitor output	1 x BNC, 1 V _{pp} , 75 Ohm
Dwell Time	Adjustable 0.5 - 30 s
Dimensions (W x H x D)	210 x 60 x 185 mm
Power requirements	230 V _{AC} , 5 W

**VSS008-1M****Desktop sequential switcher 8x1, PAL/NTSC, 230 V_{AC}****GBQ:A541284**

As above for technical details but with 8 camera inputs.

amplifiers

Siemens

VDA004-P

Video distribution amplifier 4x1:2, 230 Vac

GBQ:A541174

A user configurable video distribution amplifier, factory preset to provide 2 outputs for each of 4 separate video inputs. Individual gain adjustment is provided for each input. Suitable for distributing video signals to multiple monitors around a shop or warehouse or to multiple pieces of CCTV equipment.

Configuration options	1:2 + 1:2 + 1:2+ 1:2
	1:4 + 1:4
	1:6 + 1:2
	1:8
Bandwidth	10 Mhz
Dimensions (W x H x D)	220 x 40 x 180 mm
Power requirements	12 V _{DC} , 12 W (230 Vac adapter supplied)



VDA008-P

Video distribution amplifier 8x1:2, 230 Vac

GBQ:A541161

A user-configurable video distribution amplifier, consisting of the circuits of two VDA004-P distribution amplifiers neatly housed in a 1U rack-mount enclosure and factory preset to provide 2 outputs for each of 8 separate video inputs.

Dimensions (W x H x D)	435 x 45 x 138 mm
Power requirements	12 V _{DC} , 12 W (230 Vac adapter supplied)



accessories video distribution

Siemens

VGI200

Video isolation transformer

GBQ:A557346

The VGI200 video isolation transformer breaks ground loops, only allowing video and camera control signals through. Ground loops occur when the earth potential at the camera is different from the potential at the monitor. This difference may only be a small voltage but it can cause large currents to flow through the shield of the coaxial cable. These large currents will cause picture distortion and safety problems if they remain.

Connectors	2 x BNC, in and out
Impedance	75 Ohm
Housing	Plastic



Siemens

duplex multiplexers

VMP200-4D

Monochrome duplex multiplexer, 4 cameras

Continuous multiplexed recording of four cameras with simultaneous real-time display in either quad or full-screen format. Ideal for small systems, producing superb image quality and 50fps update rate in 3-hour record mode.

Camera inputs	4 x BNC with loop-thru, 75 Ohm
Video output (Monitor & VCR)	1 Vpp, composite video, CCIR
Display format	Real-time quad / full screen
Display resolution	720 (H) x 576 (V) pixels
Sequencing	Quad, cameras 1 ~ 4
Freeze picture	Quad / full-screen
Dwell time	0 ~ 99 s, individual adjustment
Titling	Time, date & camera (8 characters)
Playback	Quad or full screen
Alarms inputs	1 per camera plus video loss
Alarm output relay	1 x Form-C (C,NO,NC); 24 Vdc, 1 A
Alarm history log	On-screen display of last 50 events
Dimensions (W x H x D)	285 x 44 x 235 mm
Power requirements	12 VAc/DC, 6.0 W (230 VAc adapter supplied)

2GF2003-8FA

A24205-A336-A644



VMP400-4D

Colour duplex multiplexer, 4 cameras

As above, but colour with the following differences.

Video output (Monitor & VCR)	1 Vpp, composite video, PAL/NTSC
Power requirements	12 VAc/DC, 11.0 W (230 VAc adapter supplied)

2GF2003-8GA

A24205-A336-A644

VMP200-8D

Monochrome duplex multiplexer, 8 cameras

Continuous multiplexed recording of eight cameras with simultaneous real-time display in either quad or full-screen format. Ideal for small systems, producing superb image quality and 50fps update rate in 3-hour record mode.

Camera inputs	8 x BNC, 75 Ohm
Video output (Monitor & VCR)	1 Vpp, composite video, CCIR
Display format	1 (full screen), 2x2 (quad), 3x3 (8-View)
Display resolution	720 (H) x 576 (V) pixels
Sequencing	Cameras 1 ~ 4, Quad, 8-View
Freeze picture	Full-screen
Dwell time	0 ~ 99 s, individual adjustment
Titling	Time, date & camera (8 characters)
Playback	Quad, 8-View or full screen
Alarms inputs	1 per camera plus video loss
Alarm output relay	1 x Form-C (C,NO,NC); 24 Vdc, 1 A
Alarm history log	On-screen display of last 50 events
Dimensions (W x H x D)	430 x 44 x 235 mm
Power requirements	12 VAc/DC, 6.0 W (230 VAc adapter supplied)

2GF2003-8FB

A24205-A336-A643



VMP400-8D

Colour duplex multiplexer, 8 cameras

As above, but colour with the following differences.

Video output (Monitor & VCR)	1 Vpp, composite video, PAL/NTSC
Power requirements	12 VAc/DC, 11.0 W (230 VAc adapter supplied)

2GF2003-8GB

A24205-A336-A643

CSXC1601-D**Colour duplex multiplexer, 16 cameras**

The multiplexer provides the capability to record multiple video cameras using a videotape recorder (VCR). The device supports the PAL/CCIR video standard. It provides a range of display and recording options. High speed switching rate while recording. Independent main and call monitor outputs allow simultaneous multicamera and full screen viewing. Simultaneous, digital video detection of motion with two 16x12 target motion detection grids for each video channel for setting different day and night options. Adjustable target positioning, object size, target sensitivity and alarm display. Control using CKA4810 keyboard.

Colour palette	16.777.216 colours (24 Bit)
Picture format	Frame , 2x2-format, 3x3-format, 4x4-format, picture-in-picture, zoom
Video inputs	16 x BNC (camera) 1 x BNC (VCR)
Video outputs	1 x S-VHS connection (VCR) 16 x BNC (camera) 2 x BNC (main/call monitor) 1 x BNC (VCR) 1 x S-VHS connection (VCR)
Dimensions (H x W x D)	44 x 432 x 311 mm
Power requirements	12 V _{DC} (230 V _{AC} adapter supplied)

simplex multiplexers

Siemens**CSXC1601-S****Colour simplex multiplexer, 16 cameras**

With 16 inputs for colour or monochrome cameras; one alarm input per video input. Automatic motion detection can be set separately selectable terminators (75 Ohm); Independent call monitor output; High-speed switching over during camera recording; If the VCR can send a real-time clock signal, the multiplexer can adapt to the current recording speed; As a result of dynamic time division (DTD), camera pictures with motion are recorded more frequently; Special coding procedure for picture playback high quality; High-resolution digital pictures are improved using a special picture definition algorithm. PAL/CCIR display with 512 x 512 pixels and 16 million colours; On-screen display of date, time, alarm status, video loss and 10-digit camera title. Screen menus simplify setting; Non-volatile program memory. Control using CKA4810 keyboard.

As CSXC1601-D for technical details but with the following differences:

Picture format	Frame , 2x2-format, 3x3-format, 4x4-format
Video inputs	16 x BNC (camera) 1 x BNC (VCR)
Video outputs	16 x BNC (camera) 2 x BNC (main/call monitor) 1 x BNC (VCR)

accessories multiplexers

Siemens**CSXC-RM****19" rack-mount kit for CSXC1601-D/S**

For mounting the CSXC1601-S and CSXC1601-D multiplexers in a 19"-rack.

2GF2003-8DB A24205-A336-B736**2GF2003-8DA A24205-A336-B736****2GF2003-8EA**

Siemens

matrix switchers

SIMATRIX 164

SIMATRIX matrix switcher 16x4, non-expandable

The SIMATRIX 164 video matrix consists of a matrix unit with integral front panel keyboard control. SIMATRIX 164 allows the connection of up to 16 video inputs switched to a maximum of 4 video outputs (16/4). It allows proportional control of PTZ and dome devices when used with a SUT48NET keyboard and RS485 converter. Fixed speed control using Siemens the TTY protocol is a standard feature. The project-specific characteristics of the system can be set for each process or sequence using the parameterisation software.

Camera inputs	16 x BNC; 75 Ohm
Monitor output	4 x BNC; 75 Ohm
Camera sequences	64 positions
Alarm inputs	16 x
Parameterisation PC	1 x V.24 (RS232C)
Terminals	1 x TTY interface (20 mA) with power supply for external terminal (100 mA)
Control and power supply units	8 x TTY outputs (20 mA)
Control RS485 (optional)	16 x RS485 with TTY-RS485 converter-distributor
Video recorder, picture storage unit control	8 control outputs (open-collector); max. 30 V, max. 50 mA Relay with 2 floating changeover contacts for common alarm output
Dimensions (W x H x D)	440 x 87 x 240 mm
Power requirements	110 - 120 V _{AC} switchable to 220 - 240 V _{AC} , 18 W

2GF2208-8BA

A24205-A336-B789



SIMATRIX 648

SIMATRIX matrix switcher 16x4, expandable

The SIMATRIX 648 is a video matrix that can be expanded up to a maximum of 64 inputs and 8 outputs. The SIMATRIX 648 is a space-saving 19-inch complete system in a desktop housing, commencing with a basic configuration of 16 inputs and 4 outputs. The SIMATRIX 648 is a freely-parameterizable and universally applicable video control centre. The application range extends from the pure matrix function up to event-controlled control centres in conjunction with external alarm contacts or messages for processing danger, alarm and burglary signals (e.g. TELEMAT MD/MTD video sensor). IVM is an optional, user-friendly graphical interface for the SIMATRIX 648. Operation is possible using the integrated terminal or terminals with freely-assignable keys.

Camera inputs	16 x BNC (max. 64)
Monitor outputs	4 x BNC (max. 8)
Interfaces	8 x TTY interfaces for SCUs (max. 32) 2 x TTY interfaces for CKAs (max. 4)
Camera sequences	64 positions
Matrix point switching time	Typ. 80 ms, max. 200 ms (following command input on video matrix)
Alarm lines	16 x (max. 64)
Video recorder, pics storage unit	8 x control output (open-collector); max. 30 V, max. 50 mA Relay with 2 floating changeover contacts for common alarm output; max. 48 V, 250 mA
Power requirements	220 - 240 V _{AC} , switchable to 110 - 120 V _{AC} , 30 W
Dimensions (W x H x D)	427 x 133 x 210 mm

2GF2208-8AA

A24205-A336-B896



matrix switching systems

Type	Description / Technical data	Order No.	Datasheet No.
SIMATRIX 648V1	SIMATRIX matrix switcher 16x8, expandable Pre-built SIMATRIX648 assembly including: Camera inputs 16 x BNC (max. 64) Monitor outputs 8 x BNC (max. 8) Alarm lines 16 x (max. 64) Interfaces 8 x TTY interfaces for SCUs (max. 32) 2 x TTY interfaces for CKAs (max. 4)	2GF2208-8CA	A24205-A336-B896
SIMATRIX 648V2	SIMATRIX matrix switcher 32x8, expandable Pre-built SIMATRIX648 assembly including: Camera inputs 32 x BNC (max. 64) Alarm lines 32 x (max. 64) Interfaces 16 x TTY interf. for SCUs (max. 32) 2 x TTY interfaces for CKAs (max. 4)	2GF2208-8CB	A24205-A336-B896
accessories matrix switchers			
Siemens			
SIM648-IM	SIMATRIX 648 extension module for 16 camera inputs Input module (matrix card 16/8) to expand the SIMATRIX 648 video matrix in steps of 16 video inputs (max. 64 video inputs).	2GF2208-8AB	
SIM648-OM	SIMATRIX 648 extension module for 4 outputs To expand the SIMATRIX 648 video matrix by 4 video outputs (max. 8 video outputs).	2GF2208-8AC	
SIM648-IO	SIMATRIX 648 extension module 16 alarms / 8xTTY To expand the SIMATRIX 648 video matrix by 8 TTY control outputs for camera control and power supply units (max. 32) and 16 alarm inputs for alarm lines (max. 64).	2GF2208-8AE	
SIM648-TM	SIMATRIX 648 extension module for 2 terminal connectors For connection of two further CKA or SUT48 control units (max. 4).	2GF2208-8AD	
SIM648-SW/DMS	Kit for SIMATRIX 648 to DMS interface To connect a SIMATRIX 648 video matrix to GMA Manager V6.2.	2GF2208-8AK	
SIM648-SW/SIP	Kit for SIMATRIX 648 to SIPORT interface To connect a SIMATRIX 648 video matrix to SIPORT.	2GF2208-8AM	



product overview

SIMATRIX SYS matrix switching system pre-configuration chart

Video inputs/outputs	Type	Order No.
32/16	SYS32-16	2GF2210-8KA
48/16	SYS48-16	2GF2210-8KB
64/16	SYS64-16	2GF2210-8KC
80/16	SYS80-16	2GF2210-8KD
96/16	SYS96-16	2GF2210-8KE
128/16	SYS128-16	2GF2210-8KF
160/16	SYS160-16	2GF2210-8KG
192/16	SYS192-16	2GF2210-8KH
208/16	SYS208-16	2GF2210-8KJ
224/16	SYS224-16	2GF2210-8KK
255/16	SYS255-16	2GF2210-8KL
64/32	SYS64-32	2GF2210-8LA
80/32	SYS80-32	2GF2210-8LB
96/32	SYS96-32	2GF2210-8LC
128/32	SYS128-32	2GF2210-8LD
144/32	SYS144-32	2GF2210-8LE
160/32	SYS160-32	2GF2210-8LF
192/32	SYS192-32	2GF2210-8LG
208/32	SYS208-32	2GF2210-8LH
224/32	SYS224-32	2GF2210-8LJ
255/32	SYS255-32	2GF2210-8LK
96/48	SYS96-48	2GF2210-8MA
112/48	SYS112-48	2GF2210-8MB
128/48	SYS128-48	2GF2210-8MC
160/48	SYS160-48	2GF2210-8MD
192/48	SYS192-48	2GF2210-8ME
224/48	SYS224-48	2GF2210-8MF
255/48	SYS255-48	2GF2210-8MG
128/64	SYS128-64	2GF2210-8NA
144/64	SYS144-64	2GF2210-8NB
160/64	SYS160-64	2GF2210-8NC
192/64	SYS192-64	2GF2210-8ND
208/64	SYS208-64	2GF2210-8NE
224/64	SYS224-64	2GF2210-8NF
255/64	SYS255-64	2GF2210-8NG

System Overview

The SIMATRIX SYS video matrix is an innovative and future-oriented video matrix system, expandable up to a maximum of 255 video inputs and 64 video outputs. SIMATRIX SYS can be ordered with pre-configured video inputs and outputs according to the table and includes: the central processing unit (CPU) with interfaces; one SIMSYS-UART card for up to 16 x TTY current loop telemetry control outputs, dome control outputs, keyboards or alarm inputs; and the power supplies. Telemetry control can be expanded up to a maximum of 5 cards SIMSYS-UART or SIMSYS-A32 with the supplied 3U rack. Additionally all video outputs come with a dual distribution amplifier e.g. so that two monitors can be operated in parallel.

Software Setup

SIMATRIX SYS software allows: free configuration of keyboards, alarm management, camera sequence and group switching, alarm picture sequence, telemetry, on screen text and time insertion, text insertion and positioning, password protection for alarm lines activation/deactivation, alarm positioning of cameras with pan-tilt, setup programming can be stored as a file, etc.

The software also configures the CPU to control the different video cards; the interfaces to the peripherals components or systems; the monitoring of video signal failure; the text generator and much more.

SIMATRIX Control

Keyboard operation of the SIMATRIX SYS can be either the CKA or SUT keyboards with freely assignable keys. A further possibility to control the SIMATRIX SYS and other Siemens CCTV products is the interactive video management system IVM with a comfortable user interface for simple graphic operation and visualisation. The basic system supports up to 10 x CKA or SUT keyboards, should the connection of further keyboards be required, this can be done upon request.

Expansions

For expansion of alarm inputs that are more than 10m away or for control of additional telemetry or dome channels, SIMSYS-UART with 16 telemetry control outputs can be ordered. For extension of alarm inputs that are less than 10 m away SIMSYS-A32 cards with 32 alarm inputs each can be ordered.

These expansions can only be performed by Siemens trained and certified personnel.

Further expansions greater than 255 camera inputs or 64 monitor output systems are available upon request by use of additional modules and extension chassis.

SIMATRIX SYS

Camera inputs	16 to 255 (in steps of 16) 2 SMB sockets each
Monitor output	16 to 64 (in steps of 8) 2 SMB sockets each
Interfaces	3 x V.24 (RS232), 1 x RS485, 16 x TTY (20mA)
Dimensions	up to 32 outputs (9U 19") unit up to 64 outputs (15U 19") unit
Power requirements	230 Vac, 1.9A








matrix switching systems

Type	Description / Technical data	Order No.	Datasheet No.
SIM-CC3	SIMATRIX TTY cable to CKA/SUT keyboard, 3 m For connection of a terminal to the video matrix, with plug connectors. Length 3 m	2GF2207-8AE	
SIM-CC7	SIMATRIX TTY cable to CKA/SUT keyboard, 7 m As above but Length 7 m	2GF2207-8AF	
SIM-CC10	SIMATRIX TTY cable to CKA/SUT keyboard, 10 m As above but Length 10 m	2GF2207-8AG	
SIM-PC	PC cable for SIMATRIX parameterisation For connecting an external computer with 9-pin AT connection to SIMATRIX video matrix. 2 m long, for parameterisation of SIMATRIX and for loading an alarm program.	2GF2208-8AG	
SIMSYS-CHE	SIMATRIX SYS extension chassis 19" 6U Extension chassis for the SIMATRIX SYS. Connection to the basic chassis via 1x RS485 high-speed asynchronous, internal (up to 3 extension chassis). Baud rate: 307 kbit/s Connection: 1 x 9-pin Sub-D plug (RS485)	2GF2210-8AC	
SIMSYS-MIM	SIMATRIX SYS extension master input module (16 inputs) To expand the SIMATRIX SYS by 16 video inputs (in racks with 16 video outputs). Inputs 16 x video loop-through input Input amplifier Clamping at S-base, sync disconnection stage Detection of video signal failure Testing of H-sync Outputs 16, internal video bus, symmetric Design 6 HU, double Eurocard	2GF2210-8CB	
SIMSYS-SIM	SIMATRIX SYS extension slave input module (16 inputs) To expand the SIMATRIX SYS by 16 video inputs (in racks with 32 video outputs). - A master input module is required to plug in the slave module. Inputs 16, internal video bus, asymmetric Outputs 16, internal video bus, symmetric Design Plug-on module for SIMSYS-MIM	2GF2210-8CC	

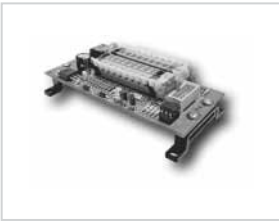




matrix switching systems

Type	Description / Technical data	Order No.	Datasheet No.
SIMSYS-MOM	SIMATRIX SYS extension master output module (16 cameras) Master output module for 16 outputs always included in the basic unit. Inputs 16, internal video bus, symmetric Outputs 16 x dual video output Attention: needs imperative one SIM-SYS-TM text module per output. Design 6 HU, double Eurocard	2GF2210-8DA	
SIMSYS-SOM	SIMATRIX SYS extension slave output module (16 cameras) To expand the SIMATRIX SYS by 16 video outputs. Slave input. Inputs 16, internal video bus, symmetric Outputs 16 x dual video output Attention: needs imperative one SIM-SYS-TM text module per output Design 6 HU, double Eurocard	2GF2210-8DB	
SIMSYS-TM	SIMATRIX SYS extension module for text overlay per output Provides text overlay for each input in one video output. OSD Full IBM character set, internal synchronization Character representation White with black border Field size 12 text lines with 24 characters each Character height 18 screen lines	2GF2210-8DC	
SIMSYS-UART	SIMATRIX SYS extension module for 16x TTY/alarm/SCU inputs For expansion of alarm inputs that are more than 10 m away or for control of additional telemetry and domes channels. 16 additional TTY/alarm/SCU inputs for SIMATRIX SYS.	2GF2210-8BC	
SIMSYS-A32	SIMATRIX SYS extension module for 32x alarm inputs 32 additional alarm inputs for SIMATRIX SYS. For extension of alarm inputs that are less than 10m away.	2GF2210-8EA	
SIMSYS-AS32	SIMATRIX SYS extension module for 32x alarm inputs/outputs For extension of alarm inputs that are less than 10m away or to control external units (lamps) through outputs. 32 additional alarm inputs/outputs for SIMATRIX SYS.	2GF2210-8EB	

matrix switching systems

Type	Description / Technical data	Order No.	Datasheet No.
SIMSYS-TX/SCU	SIMATRIX SYS FSK data transmitter to SCU301/2 This unit enables the transmission of control commands over private telemetry cables if the distance between the SCU and SIMATRIX is too long for TTY transmission (2 km). - Intended to be used with SIMSYS-RX/SCU, which is fitted into the SCU. Distance SCU to SIMATRIX Up to 30 km	2GF2210-8ED	
SIMSYS-SMB	SIMATRIX SYS connection cable to extension video input SMB-SMB cable.	2GF2210-8GC	
SIMSYS-RS485	SIMATRIX SYS communication cable between chassis (RS485) Cable for connection and communication between the SIMSYS-CH (basic chassis) with the SIMSYS-CHE (extension chassis).	2GF2210-8GD	
SIMSYS-SW/DMS	Kit for SIMATRIX SYS to DMS interface To connect a SIMATRIX SYS video matrix to GMA Manager V6.2.	2GF2210-8JA	
SIMSYS-SW/SIP	Kit for SIMATRIX SYS to SIPOINT interface To connect a SIMATRIX SYS video matrix to SIPOINT, access control.	2GF2210-8JC	
SIM-TTY/FO	Converter TTY to fibre optic ST 850 nm Enables connecting the SIMATRIX video matrix to a fibre optic device.	2GF2208-8AH	
SIM-SMB/BNC	SMB to BNC coaxial cable for input / output, 2.5 m Coaxial cable with a SMB socket and a BNC plug.	2GF5608-8AP	

matrix switching systems

Type	Description / Technical data	Order No.	Datasheet No.
TTY1X8	TTY distributor, 8 TTY outputs Standard TTY distributor for multiplying one TTY output to 8 TTY outputs. Can be screwed on or snapped into a distribution box.	2GF5505-8AK	
CAD0485-AA	RS485 distribution amplifier 1 x 8 This unit amplifies one x RS485 input to 8 x RS485 outputs for point-to-point star configuration. Each RS485 connection communicates back with the TTY over a 4-wire cable. It is for use with all the SIMATRIX versions and will work directly off the CKA4810 and CKA3210. Input 1 x RS422 / RS485, selectable, up to 19,200 Baud Output 8 x RS422 / RS485, selectable, up to 19200 Baud (max. 10 domes per output in line connectable) Dimensions (W x H x D) 130 x 180 x 40 mm Power requirements 11.8 - 13.2 Vdc, 6 W	S24245-F5047-A1	
CAC0103	TTY to RS485 Interface with various protocols This unit adds a RS485 connection for controlling CCDA domes in a TTY network. It is for use with all the SIMATRIX versions and will work directly off the CKA4810 and CKA3210. Input 1 x TTY, 2400 - 19,200 Baud Output 1 x SIVIS III / RS485 selectable, 2400 - 19,200 Baud Dimensions (W x H x D) 130 x 180 x 40 mm Power requirements 11.8 - 13.2 Vdc, 2 W	S24245-F5046-A1	
TTY-RS485	Converter-distributor TTY to RS485 This unit converts a TTY input to 16 RS485 outputs for point-to-point star configuration. Each RS485 connection communicates back with the TTY over a 4-wire cable. Functions with all SIMATRIX matrix switching systems.	2GF2208-8DA	
232-TTY	Converter RS232 to TTY Converts RS232 interface signals to TTY interface signals.	2GF5505-8AG	
RS232-RS485	Converter RS232 to RS485 Converts RS232 interface signals to RS485 interface signals. See "system diagrams" at back of catalogue for connections	2GF5505-8AH	

analogue recorders

Mitsubishi

HS-1024E

24-hour VHS time-lapse VCR with 24 hour real-time mode

Innovative 24-hour recorder for precise, daily video and audio documentation. Features include exceptional picture quality, great reliability and ease-of-maintenance thanks to carefully matched components. The integrated jog-shuttle control facilitates fast location of decisive events. Clock output simplifies use with multiplexers.

Record rates	3SP, 12SP, 24SP, all with with audio recording.
Horizontal resolution	>300 lines (monochrome) >230 lines (colour)
Video recording	4 rotating quartz heads, helical track
Video S/N ratio	>42 dB
Audio recording	Mono, longitudinal track
Rewind time	FF or REW ~140 s with E180 tape
Dimensions (W x H x D)	425 x 93 x 309 mm
Power requirements	230 V _{AC} , 20 W

GBQ:A537492 A24205-A336-B648



HS-1096E

96-hour VHS time-lapse VCR with 24 hour real-time mode

Innovative 96-hour recorder for precise, video and audio documentation for up to 96 hours. Features include exceptional picture quality, great reliability and ease-of-maintenance thanks to carefully matched components. The integrated jog-shuttle control facilitates fast location of decisive events. Clock output simplifies use with multiplexers.

Record rates (video & audio)	3, 6, 18LP, 30LP / 4, 8, 24LP, 40LP
TL record rates (video only)	3, 6, 18LP, 30LP, 48, 72, 96 / 4, 8, 24LP, 40LP, 64, 96, 128
Horizontal resolution	>330 lines (monochrome) >240 lines (colour)
Video recording	4 rotating quartz heads, azimuth helical scan
Video S/N ratio	>42 dB
Audio recording	Mono, longitudinal track
Rewind time	FF or REW ~140 s with E180 tape
Dimensions (W x H x D)	425 x 93 x 309 mm
Power requirements	230 V _{AC} , 20 W

GBQ:A537502 A24205-A336-B648



HS-1168E

168-hour VHS time-lapse VCR with 24 hour real-time mode

Innovative time-lapse recorder for precise, video and audio documentation for up to 168 hours. Features include exceptional picture quality, great reliability and ease-of-maintenance thanks to carefully matched components. The integrated jog-shuttle control facilitates fast location of decisive events. Clock output simplifies use with multiplexers.





Record rates (video & audio)	3SP, 6LP, 18LP, 24SP
TL record rates (video only)	48SP, 48LP, 72SP, 72LP, 96SP, 96LP, 120SP, 120LP, 168SP, 168LP
Horizontal resolution	>330 lines (monochrome) >240 lines (colour)
Video recording	6 rotating quartz heads, azimuth helical scan
Video S/N ratio	>48 dB
Audio recording	Mono, longitudinal track
Rewind time	FF or REW ~140 s with E180 tape
Dimensions (W x H x D)	425 x 93 x 309 mm
Power requirements	230 V _{AC} , 20 W

GBQ:A537515 A24205-A336-B648





product overview

	AX4	AX4 PSTN	AX9	AX16
				
Display				
Video inputs with looping outputs	4	4	9	16
Monitor outputs	2 (1 x BNC, 1 x SVHS)	2 (1 x BNC, 1 x SVHS)	2 (1 x BNC, 1 x SVHS)	2 (1 x BNC, 1 x SVHS)
Audio inputs	1	1	1	1
Display resolution (H x V)	720 x 576	720 x 576	720 x 576	720 x 576
Live display formats	1 (full screen), 2 x 2 (quad)	1 (full screen), 2 x 2 (quad)	1 (full screen), Picture in Picture (PiP) 2 x 2 (quad), 3 x 3 (nono)	1 (full screen), Picture in Picture (PiP) 2 x 2 (quad), 3 x 3 (nono), 4 x 4 (hex)

Recording

Maximum Recording Speed - no local playback	25 ips (images per second)	25 ips	50 ips	50 ips
Maximum Recording speed - during local playback			25 ips	25 ips
Maximum Recording Speed - playback via RemoteView software	25 ips	25 ips	50 ips	50 ips
Recording Schedules	user-defined	user-defined	user-defined	user-defined

Alarms

Alarm Inputs	4	4	9	16
Alarm Outputs	2	2	4	4
Video Loss Detection	•	•	•	•
Activity Detection	192 zones	192 zones	192 zones	192 zones
Internal Buzzer	•	•	•	•
Alarm Log	•	•	•	•

Controls

Easy Search	•	•	•	•
PTZ / Dome control	•	•	•	•
Fast forward / rewind controls	x2, x8 speed	x2, x8 speed	x2, x4, x8 speed	x2, x4, x8 speed
Password protection	3 levels	3 levels	3 levels	3 levels
Keyboard lockout	•	•	•	•

Connectivity

Ethernet LAN/WAN connector (10/100 Mbps)	•	•	•	•
External modem connector (ISDN / PSTN)	•	•	•	•
PSTN modem (internal)		•		
Remote Access Software	•	•	•	•
Text overlay interface (ATM)	•	•		

Export / Backup

Image export	JPG or AVI over network	JPG or AVI over network	JPG or AVI over network	JPG or AVI over network
Image backup / archive	via USB	via USB	via USB / SCSI	via USB / SCSI
Hard disk expansion possibility	•	•	•	•

Siemens

AX4



digital recorders

DVR, SISTORE AX, LAN, 40 GB*, 4 cameras, 25 ips**2GF4816-8AA**

SISTORE AX is an entry level digital recorder. It combines fast recording with a great deal of functionality all in one box. SISTORE AX can be operated and controlled both locally with the front panel and remotely. Multiple units can be controlled by Remote SISTORE AX Client via Ethernet, external ISDN terminal adaptor or PSTN modem. 1 channel audio recording, with playback. Connect a Siemens speed dome for full telemetry control.

Recording speed	25 images/s (PAL), 30 images/s (NTSC)
Video inputs	4 x BNC with loop-through (75 Ohm)
Video outputs	1 x BNC, 1 x Y/C (S-VHS)
Live display formats	1 (full screen), 2 x 2 (quad)
Audio input	1 x RCA
Audio output	1 x RCA
Alarm inputs	4 (NO or NC)
Alarm outputs	2 (open collector: 5 mA @ 12V and 30 mA @ 5 V)
Activity detection	192 programmable zones
Password protection	3 user levels
Keyboard lockout facility	Yes
Fast forward/rewind controls	x2, x8 speed
Network interfaces	RJ45 - Ethernet (10baseT, 100baseT) DB9 - external modem (via RS232)
Interfaces	DB9 - PTZ, Text overlay
Resolution (H x V)	720 x 576 (PAL) 720 x 480 (NTSC)
Compression	H.263 (subset MPEG4)
Hard disk capacity	40 GB *(250 GB expansion kit available - see accessories)
External recording media	Via USB (FAT32 compatible only)
Dimensions (W x H x D)	430 x 44 x 352 mm
Power requirements	24 V _{DC} , 70 W (230 V _{AC} adapter supplied)



AX4 PSTN

DVR, SISTORE AX, LAN, 40 GB*, 4 cameras, 25 ips, PSTN modem**2GF4816-8AB**

As above for technical details but with internal 56k PSTN modem and with the following differences:

Network interfaces	RJ45 - Ethernet (10baseT, 100baseT) DB9 - external modem (via RS232) RJ11 - internal modem
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AX9

**DVR, SISTORE AX, LAN, 250 GB*, 9 cameras, 50 ips****2GF4816-8CA**

As AX4 for technical details but with the following differences:

Recording speed	50 images/s (PAL), 60 images/s (NTSC)
Video inputs	9 x BNC with loop-through (75 Ohm)
Live display formats	1 (full screen), Picture in Picture (PiP) 2 x 2 (quad), 3 x 3 (nono)
Alarm input	9 (NO or NC)
Alarm outputs	4 relays (dry contact, 5 mA @ 12V and 30 mA @ 5 V)
Fast forward/rewind controls	x2, x4, x8 speed
Hard disk capacity	250 GB *(250 GB expansion kit available - see accessories)
SCSI interface	for external hard disk or RAID
Dimensions (W x H x D)	430 x 44 x 399 mm
Power requirements	12 V _{DC} , 70 W (230 V _{AC} adapter supplied)



recording systems

Type	Description / Technical data	Order No.	Datasheet No.
AX16	<div>DVR, SISTORE AX, LAN, 250 GB*, 16 cameras, 50 ips</div> <div>As AX9 for technical details but with the following differences: Video inputs16 x BNC with loop-through (75 Ohm) Live display formats1 (full screen), Picture in Picture (PiP) 2 x 2 (quad), 3 x 3 (nono), 4 x 4 (hex) Alarm input16 (NO or NC) Hard disk capacity250 GB *(250 GB expansion kit available - see accessories)</div>	2GF4816-8DA	
MX Pro 8	<div>DVR, SISTORE MX Pro, LAN, 120 GB, 8 cameras, 50 ips</div> <div>SISTORE MX Pro is a flexible digital recording and video monitoring system offering remote operation via LAN or ISDN. User-friendly software ensures professional results as well as easy handling. Under normal conditions, SISTORE MX Pro systems require no intervention and no tapes to change and maintain. Easy export of images via included CD writer. Includes RemoteView Software. Recording speed50 images/s, individually configurable for each camera Video inputs8 x BNC (75 Ohm) Video outputs1 x VGA, 1 x BNC (75 Ohm) Audio input1 x RCA Audio output1 x RCA Alarm inputs/outputs16/8 Digital inputs8 Watchdog functionYes Interfaces2 x RS232, 1 x Centronics, 1 x LAN, 4 x USB, optional ISDN over USB Resolution (H x V)Standard resolution 352 x 288 pixels high resolution 704 x 288 pixels CompressionMJPEG; freely configurable between 10 and 40 kB Hard disk capacity120 GB External recording mediaCD Writer (included) Via network, USB Harddrive extension Screen resolution1024 x 768, 1280 x 1024 Dimensions (W x H x D)440 x 172 x 460 mm Power requirements110 - 230 VAC</div>	2GF4813-8BE	A24205-A336-B678 
MX Pro 16	<div>DVR, SISTORE MX Pro, LAN, 240 GB, 16 cameras, 50 ips</div> <div>As MX PRO 8 for tehcnical details but with the following differences: Video inputs16 x BNC (75 Ohm) Hard disk capacity240 GB</div>	2GF4813-8DF	A24205-A336-B678
MX Pro 32	<div>DVR, SISTORE MX Pro, LAN, 360 GB, 32 cameras, 50 ips</div> <div>As MX PRO 16 for tehcnical details but with the following differences: Video inputs32 x BNC (75 Ohm) Hard disk capacity360 GB</div>	2GF4813-8HA	

NT8**DVR SISTORE NT, 120 GB, 8 cam, 8 ips, base-unit - IVM**

The SISTORE NT digital video recording has been designed for a medium-sized system. SISTORE NT can be controlled by external systems, e.g. the IVM (Interactive Video Management system) or from a control centre via ISDN. This provides high flexibility to the user.

Recording speed	Up to 8 images/s or with 1 camera 25 images/s
Video inputs	8 x BNC (75 Ohm)
Video outputs	1 x VGA, 1 x BNC (75 Ohm)
Interfaces	2 x RS232, 1 x Centronics, 1 x LAN, 4 x USB, optional ISDN
Alarm inputs/outputs	8/8
Resolution (H x V)	704 x 288 pixels
Compression	MJPEG
Hard disk capacity	120 GB
External recording media	CD writer (included), via network
Screen resolution	1024 x 768
Dimensions (W x H x D)	440 x 172 x 460 mm
Power requirements	110 - 230V _{AC}

2GF4814-8DA**NT16****DVR, SISTORE NT, 240 GB, 16 cam, 50 ips, base-unit - IVM**

As NT 8 for technical details but with the following differences:

Recording speed	Up to 50 images/s
Video inputs	16 x BNC (75 Ohm)
Alarm inputs/outputs	16/8
Hard disk capacity	240 GB



2GF4814-8EA**NT REV****DVR, SISTORE NT revision station - IVM**

Revision station for SISTORE NT digital recorders.

Software-Module	Revision software
Video outputs	1 x VGA, 1 x BNC (75 Ohm)
Interfaces	2 x RS232, 1 x Centronics, 1 x LAN, 4 x USB, optional ISDN
Resolution (H x V)	704 x 288 pixels
Compression	MJPEG
Hard disk capacity	40 GB
External recording media	CD writer (included)
Screen resolution	1024 x 768
Dimensions (W x H x D)	440 x 172 x 460 mm
Power requirements	110 - 230V _{AC}

2GF4814-8FA

recording systems






Type	Description / Technical data	Order No.	Datasheet No.
DVÜ 2000-B8	<div><div>DVÜ, 120 GB, 8 cam, 8 ips, base-unit - Banks</div><div>Digital video holdup camera and management system according to the accident prevention regulations (UVV) for banks (ORÜA, optical hall surveillance systems).</div><div><div>Recording speed</div><div>Up to 8 images/s or 2 images per camera/s for 4 cameras or with only 1 camera 25 images/s</div></div><div><div>Video inputs</div><div>8 x BNC (75 Ohm)</div></div><div><div>Video outputs</div><div>1 x VGA, 1 x BNC (75 Ohm)</div></div><div><div>Interfaces</div><div>2 x RS232, 1 x Centronics, 1 x LAN, 4 x USB, optional ISDN</div></div><div><div>Alarm inputs/outputs</div><div>8/8</div></div><div><div>Resolution (H x V)</div><div>704 x 288 pixels</div></div><div><div>Compression</div><div>MJPEG</div></div><div><div>Hard disk capacity</div><div>120 GB</div></div><div><div>External recording media</div><div>CD writer (included), via network</div></div><div><div>Screen resolution</div><div>1024 x 768</div></div><div><div>Dimensions (W x H x D)</div><div>440 x 172 x 460 mm</div></div><div><div>Power requirements</div><div>110 - 230VAc</div></div></div>	2GF4815-8DA	
DVÜ 2000-B16	<div><div>DVÜ, 240 GB, 16 cam, 50 ips, base-unit - Banks</div><div>As DVÜ 2000-B8 for technical details but with the following differences:</div><div><div>Recording speed</div><div>Up to 50 images/s</div></div><div><div>Video inputs</div><div>16 x BNC (75 Ohm)</div></div><div><div>Alarm inputs/outputs</div><div>16/8</div></div><div><div>Hard disk capacity</div><div>240 GB</div></div></div>	2GF4815-8EA	
DVÜ 2000-V8	<div><div>DVÜ, 120 GB, 8 cam, 8 ips, german language only - Banks</div><div>As DVÜ 2000-B8 for tehcnical details but with the following differences:</div><div><div>Software-Module</div><div>DVÜ-Basis, UVV-Kassen, Raumaufzeichnung, GAA-Journal</div></div></div>	2GF4815-8DB	
DVÜ 2000-V16	<div><div>DVÜ, 240 GB, 16 cam, 50 ips, german lang. only - Banks</div><div>As DVÜ 2000-V8 for technical details but with the following differences:</div><div><div>Recording speed</div><div>Up to 50 images/s</div></div><div><div>Video inputs</div><div>16 x BNC (75 Ohm)</div></div><div><div>Alarm inputs/outputs</div><div>16/8</div></div><div><div>Hard disk capacity</div><div>240 GB</div></div></div>	2GF4815-8EB	
DVÜ2000-REV	<div><div>DVÜ revision station - Banks</div><div>Revision station for Digital video holdup camera and management system according to the accident prevention regulations (UVV) for banks (ORÜA, optical hall surveillance systems).</div><div><div>Software-Module</div><div>Revision software</div></div><div><div>Video outputs</div><div>1 x VGA, 1 x BNC (75 Ohm)</div></div><div><div>Interfaces</div><div>2 x RS232, 1 x Centronics, 1 x LAN, 4 x USB, optional ISDN</div></div><div><div>Resolution (H x V)</div><div>704 x 288 pixels</div></div><div><div>Compression</div><div>MJPEG</div></div><div><div>Hard disk capacity</div><div>40 GB</div></div><div><div>External recording media</div><div>CD writer (included)</div></div><div><div>Screen resolution</div><div>1024 x 768</div></div><div><div>Dimensions (W x H x D)</div><div>440 x 172 x 460 mm</div></div><div><div>Power requirements</div><div>110 - 230VAc</div></div></div>	2GF4815-8FA	

Type	Description / Technical data	Order No.	Datasheet No.
accessories digital recorders			
AXHDE-250	SISTORE AX hard disk expansion kit 250 Gb 250 GB hard disk expansion kit for Sistore AX4, AX9 and AX16.	2GF4816-8BA	
DVÜ2000-UVV	Software module UVV Kassen for DVÜ Software module for UVV recording.	2GF4810-8EF	
DVÜ2000-ROOM	Software module room for DVÜ2000 Software module for room recording.	2GF4810-8EG	
DVÜ2000-GAA	Software module ATM for DVÜ2000 Cash dispenser transaction data and archiving. Incl. enabling for connection of an SNI, IBM or NCR cash dispenser (only in conjunction with cash dispenser interface card).	2GF4810-8EH	
DVÜ2000-ACC	Software module EC Access for DVÜ EC access control and archiving.	2GF4810-8EK	
DVÜ2000-ACC-K	Software module EC Access for DVÜ KEBA EC access control and archiving. KEBA.	2GF4810-8ET	
GAA-CTRL	GAA interface module for DVÜ Provides connection to cash dispenser, for DVÜ2000-8B and DVÜ2000-16B.	2GF4811-8FA	
SWU 3.34	Software update SISTORE / DVÜ 3.34 Software update for SISTORE / DVÜ.	2GF4811-8AA	
HD120-IDE	Hard disk 120 GB IDE for SISTORE NT/DVÜ Additional IDE hard disk for digital recorders. Hard disk capacity 120 GB Compatible with SISTORE NT, DVÜ	2GF4811-8CA	
SCSI-CTRL	SCSI controller for SISTORE NT/DVÜ Allows the SISTORE NT/DVÜs to be connected to SCSI periphery.	2GF4810-8BR	
ISDN-A-CTRL	Active ISDN module for DVÜ/SISTORE NT For transmission over ISDN. Compatible with SISTORE NT, DVÜ	2GF4810-8CE	
ISDN-P-CTRL	Passive ISDN USB Modul for MX Pro For use with SISTORE MX Pro and in RemoteView for transmission over two ISDN B channels. Compatible with MX Pro	2GF4811-8FC	
			








product overview

Colour Monitors

	CMCC1020	CMCC1420	CMCC1525	CMCC1725	CMCC2120
					
	Colour	Colour	Colour	Colour	Colour
CRT Size	10" / 25 cm	14" / 36 cm	15" / 38 cm	17" / 44 cm	21" / 55 cm
Resolution with coax	300 TVL	350 TVL	700 TVL	700 TVL	400 TVL
Resolution with Y/C	350 TVL	450 TVL	800 TVL	800 TVL	450 TVL
Front panel controls	•	•		•	•
On screen display menu			•		
Video in / out	1	1	2	2	2
SVHS Y/C in / out	1	1	1	1	1
Audio in / out	1	1	2	2	2
Under/over scan switch			•		•
Metal case	•	•	•	•	•
Easy carry handles	•	•	•	•	•
TV Standard	PAL / NTSC 50 / 60 Hz	PAL / NTSC 50 / 60 Hz	PAL / NTSC 50 / 60 Hz	PAL / NTSC 50 / 60 Hz	PAL / NTSC 50 / 60 Hz
Power	100~240 Vac	100~240 Vac	100~240 Vac	100~240 Vac	100~240 Vac

Monochrome Monitors

	CMCB0920	CMCB1220	CMCB1420	CMCB1720	CMCB2020
					
	Mono	Mono	Mono	Mono	Mono
CRT Size	9" / 23 cm	12" / 32 cm	14" / 36 cm	17" / 44 cm	20" / 51 cm
Resolution with coax	900 TVL	1000 TVL	1000 TVL	1000 TVL	1000 TVL
Front panel controls	•	•	•	•	•
Video in / out	1	1	1	2	2
Audio in / out				2	2
Under/over scan switch					•
Metal case	•	•	•	•	•
Easy carry handles			•	•	•
TV Standard	CCIR / EIA 50 / 60 Hz	CCIR / EIA 50 / 60 Hz	CCIR / EIA 50 / 60 Hz	CCIR / EIA 50 / 60 Hz	CCIR / EIA 50 / 60 Hz
Power	100~240 Vac	100~240 Vac	100~240 Vac	100~240 Vac	100~240 Vac

monochrome monitors

Siemens

CMCB0920

**Monochrome monitor 23 cm (9") >900 Lines, CCIR/EIA**

2GF3031-8AA

Professional quality monitor, providing sharp, crisp images. Suitable for monitoring tasks where good picture quality and reliability are of prime importance. One video input and output. Sturdy, square format metal case for easy stacking. The user-friendly controls are all accessible from the front.

Video (in/out)	1 x Video IN (BNC), looped through
Resolution	>900 TV lines
Dimensions (W x H x D)	220 x 238 x 261 mm
Weight	4.6 kg
Power supply	100 ~ 240 VAC, 21 W



CMCB1220

**Monochrome monitor 32 cm (12") >1000 Lines, CCIR/EIA**

2GF3032-8AA

Professional quality monitor, providing sharp, crisp images. Suitable for monitoring tasks where good picture quality and reliability are of prime importance. One video input and output. Sturdy, square format metal case for easy stacking. The user-friendly controls are all accessible from the front.

Video (in/out)	1 x Video IN (BNC), looped through
Resolution	>1000 TV lines
Dimensions (W x H x D)	310 x 304 x 302 mm
Weight	7.6 kg
Power supply	100 ~ 240 VAC, 22 W



CMCB1420

**Monochrome monitor 36 cm (14") >1000 Lines, CCIR/EIA**

2GF3033-8AA

Professional quality monitor, providing sharp, crisp images. Suitable for monitoring tasks where good picture quality and reliability are of prime importance. One video input and output. Sturdy, square format metal case for easy stacking, including carry handles. The user-friendly controls are all accessible from the front.

Video (in/out)	1 x Video IN (BNC), looped through
Resolution	>1000 TV lines
Dimensions (W x H x D)	356 x 333 x 381 mm
Weight	10.5 kg
Power supply	100 ~ 240 VAC, 27 W



CMCB1720

**Monochrome monitor 44 cm (17") >1000 Lines, CCIR/EIA**

2GF3034-8AA

Professional quality monitor, providing sharp, crisp images. Suitable for monitoring tasks where reliability, good picture quality and audio is required. Two videos inputs, with looping outputs. Sturdy, square format metal case for easy stacking, including carry handles. The user-friendly controls are all accessible from the front, including switching inputs.

Video (in/out)	2 x Video IN (BNC), looped through
Resolution	>1000 TV lines
Audio	2 x Audio IN (RCA), looped through
Dimensions (W x H x D)	405 x 371 x 406 mm
Weight	14.4 kg
Power supply	100 ~ 240 VAC, 38 W



monitors, displays & mounts

Type

Description / Technical data

Order No.

Datasheet No.

CMCB2020

**Monochrome monitor 51 cm (20") >1000 Lines, CCIR/EIA**

Professional quality monitor, providing sharp, crisp images. Suitable for monitoring tasks where reliability, good picture quality and audio is required. Two videos inputs, with looping outputs. Sturdy, square metal case for easy stacking, including carry handles. The user-friendly controls are all accessible from the front, including switching inputs.

Video (in/out)	2 x Video IN (BNC), looped through
Resolution	>1000 TV lines
Audio	2 x Audio IN (RCA), looped through
Under/over scan switch	Yes
Dimensions (W x H x D)	480 x 440 x 462 mm
Weight	19 kg
Power supply	100 ~ 240 VAC, 45 W

2GF3035-8AA



colour monitors

Siemens

CMCC1020

**Colour monitor 25 cm (10") >300 Lines, PAL/NTSC**

Professional quality monitor, providing sharp, crisp images. Suitable for monitoring tasks where reliability, good picture quality and audio is required. Two video inputs (composite and S-VHS), with looping outputs. Sturdy, square format metal case for easy stacking, including carry handles. The user-friendly controls are all accessible from the front, including switching inputs.

Video (in/out)	1 x Video IN (BNC), looped through 1 x S-VHS IN (Y/C), looped through
Resolution	>300 TV lines, 350 TV lines with Y/C
Audio	1 x Audio IN (RCA), looped through
Dimensions (W x H x D)	260 x 281 x 297 mm
Weight	7.8 kg
Power supply	100 ~ 240 VAC, 50 W

2GF3131-8AA



CMCC1420

**Colour monitor 36 cm (14") >350 Lines, PAL/NTSC**

Professional quality monitor, providing sharp, crisp images. Suitable for monitoring tasks where reliability, good picture quality and audio is required. Two video inputs (composite and S-VHS), with looping outputs. Sturdy, square format metal case for easy stacking, including carry handles. The user-friendly controls are all accessible from the front, including switching inputs.

Video (in/out)	1 x Video IN (BNC), looped through 1 x S-VHS IN (Y/C), looped through
Resolution	>350 TV lines, 450 TV lines with Y/C
Audio	1 x Audio IN (RCA), looped through
Dimensions (W x H x D)	356 x 333 x 381 mm
Weight	13.2 kg
Power supply	100 ~ 240 VAC, 60 W

2GF3132-8AA



CMCC1525

**Colour monitor 38 cm (15") Hi-res, >700 Lines, OSD, PAL/NTSC**

Professional quality monitor, providing sharp, crisp images. Suitable for monitoring tasks where reliability, good picture quality and audio is required. Three video inputs (2 x composite and 1 x S-VHS), with looping outputs. Sturdy, square format metal case for easy stacking, including carry handles. Easy setup via OSD menus allows simple adjustment of all settings. The user-friendly controls are all accessible from the front, including switching inputs.

Video (in/out)	2 x Video IN (BNC), looped through 1 x S-VHS IN (Y/C), looped through
Resolution	>700 TV lines, 800 TV lines with Y/C
Audio	2 x Audio IN (RCA), looped through
Under/over scan switch	Yes
OSD	Yes
Dimensions (W x H x D)	356 x 333 x 381 mm
Weight	15.7 kg
Power supply	100 ~ 240 VAC, 75 W

2GF3133-8AA



monitors, displays & mounts

Type

Description / Technical data

Order No.

Datasheet No.

CMCC1725

**Colour monitor 44 cm (17") >700 Lines, PAL/NTSC**

High resolution quality monitor providing sharp, crisp images. Exceptionally suitable for all industrial monitoring tasks where high picture quality and reliability are of prime importance. Three video and two audio inputs and outputs. Sturdy, square format metal case for easy stacking.

Video (in/out)	2 x Video IN (BNC), looped through 1 x S-VHS IN (Y/C), looped through
Resolution	>700 TV lines, 800 TV lines with Y/C
Audio	2 x Audio IN (RCA), looped through
Dimensions (W x H x D)	405 x 371 x 406 mm
Weight	19.4 kg
Power supply	100 ~ 240 VAC, 78 W

2GF3134-8AA



CMCC2120

**Colour monitor 55 cm (21") >400 Lines, PAL/NTSC**

Standard resolution quality monitor providing sharp, crisp images. Exceptionally suitable for all industrial monitoring tasks where high picture quality and reliability are of prime importance. Three video and two audio inputs and outputs. Sturdy, square format metal case for easy stacking.

Video (in/out)	2 x Video IN (BNC), looped through 1 x S-VHS IN (Y/C), looped through
Resolution	>400 TV lines, 450 TV lines with Y/C
Audio	2 x Audio IN (RCA), looped through
Under/over scan	Yes
16:9	Yes
Dimensions (W x H x D)	480 x 462 x 439 mm
Weight	25.5 kg
Power supply	100 ~ 240 VAC, 70 W

2GF3135-8AA



CM25-5

Colour monitor 22 cm (9") >300 Lines, PAL/NTSC

The CM25-5 colour video monitor with high quality colour reproduction and high contrast is used for high-end projects and installations, e.g. industry, traffic, video production studios, medicine and research. - A built-in speaker means sound can be reproduced parallel to the video image. The desktop monitor comes with a sturdy metal housing which ensures a high level of electromagnetic compatibility (EMC). The user-friendly controls are all located at the front. Two BNC sockets are fitted for the video input, and another two for the video output.

Video (in/out)	2 x Video In (BNC), looped through
Resolution	>300 TV lines
Audio	1 x Audio IN (Cinch), looped through
Dimensions (W x H x D)	220 x 220 x 309 mm
Weight	6.5 kg
Power supply	220 ~ 240 VAC, 47 W

2GF3121-8BB A24205-A336-B732



CM37-5

Colour monitor 33.5 cm (13") >370 Lines, PAL/NTSC

The CM37-5 colour video monitor with high quality colour reproduction and high contrast is used for high-end projects and installations, e.g. industry, traffic, video production studios, medicine and research. - A built-in speaker means sound can be reproduced parallel to the video image. The desktop monitor comes with a sturdy metal housing which ensures a high level of electromagnetic compatibility (EMC). The user-friendly controls are all located at the front. Two BNC sockets are fitted for the video input, and an-other two for the video output.

Video (in/out)	2 x Video In (BNC), looped through
Resolution	>370 TV lines
Audio	1 x Audio IN (Cinch), looped through
Dimensions (W x H x D)	370 x 352 x 399 mm
Weight	13 kg
Power supply	220 ~ 240 VAC, 60 W

2GF3123-8AE A24205-A336-B730



monitors, displays & mounts

Type

Description / Technical data

Order No.

Datasheet No.

CM36-5

Colour monitor 36 cm (14") >750 Lines, PAL/NTSC

The CM36-5 colour video monitor with high quality colour reproduction and high contrast is used for high-end projects and installations, e.g. industry, traffic, video production studios, medicine and research.- Built-in audio amplifiers and speakers mean sound can be reproduced parallel to the video image. This desktop monitor comes with a sturdy metal housing which ensures a high level of electromagnetic compatibility. The control panel with essential controls is located at the front. OSD menu provides easy adjustment of all settings

Video (in/out)	2 x Video In (BNC), looped through 1 x S-video-input (Mini DIN), looped through
Resolution	>750 TV lines
Audio	1 x Audio IN (2x Cinch), looped through
OSD	Yes
Data ports	Yes (2 x RS-485, with termination selector)
Dimensions (W x H x D)	370 x 352 x 399 mm
Weight	15 kg
Power supply	220 ~ 240 VAC, 70 W

LCD-displays**Siemens**

RE-15LA30

LCD Colour Monitor 38 cm (15.1") >750 Lines

The high-resolution RE-15LA30 15.1" LCD monitor offers pin-sharp resolution, excellent clarity and accuracy. Additionally it is very modern and stylish. The TFT screen has built-in speakers. TV tuner and a remote control for all circumstances are included.

Video inputs	1 x S-video IN (Y/C) 1 x AV IN 1 x VGA IN 1 x Scart IN
Resolution	1024 x 768 pixels
Remote control	Yes
Dimensions (W x H x D)	388 x 385 x 174 mm
Weight	5.3 kg
Power supply	110 ~ 270 VAC, 30 W

2GF3123-8AD A24205-A336-B731**2GF3123-8CC A24205-A336-B609**

monitors, displays & mounts

Type Description / Technical data Order No. Datasheet No.

Siemens

monitor mounts

VMT900

Monitor hanger suitable for 12 ~ 15" monitors

GBQ:A538174

Attractive, easily adjusted, single tie-rod monitor hanger designed to safely grip monitors at the point of balance just behind the front facia. Strong, rubber-faced extruded aluminium corner-pieces securely hold the monitor without damaging the monitor case.

Minimum monitor size (W x H) 275 x 275 mm
Maximum monitor size (W x H) 377 x 377 mm
Load rating 25 kg



VMT902

Monitor hanger ceiling bracket

GBQ:A538213

Tubular support designed to enable monitors of all dimensions to be suspended from an appropriate ceiling structure. For use with both VMT900 and VMT910 monitor hangers.

Dimensions (Ø x H) 35 x 856 mm
Load rating 60 kg



VMT903

Monitor hanger ceiling bracket extension tube

GBQ:A557304

Tubular extension with lock-ring for insertion between VMT902 ceiling bracket and VMT900 and VMT910 monitor hangers.

Extension length 500 mm
Overall length 524 mm
Load rating 60 kg



VMT901

Monitor hanger wall bracket for 12 ~ 15" monitors

GBQ:A538190

Tubular support to hang monitors from an appropriate load-bearing wall or pillar. For use with VMT900 monitor hangers.

Span 420 mm
Height 480 mm
Drop 170 mm
Load rating 60 kg



VMT910

Monitor hanger suitable for 17 ~ 21" monitors

GBQ:A538187

Attractive, easily adjusted, dual tie-rod monitor hanger designed to safely grip monitors at the point of balance just behind the front facia. Strong, rubber-faced extruded aluminium corner-pieces securely hold the monitor without damaging the monitor case.

Minimum monitor size (W x H) 367 x 367 mm
Maximum monitor size (W x H) 532 x 532 mm
Load rating 35 kg



VMT911

Monitor hanger wall mount for 17 ~ 21" monitors

GBQ:A538200

As above except for the following differences.

Span 500 mm
Height 480 mm
Drop 170 mm
Load rating 60 kg

Siemens

software management systems

IVM video management system

IVM is the software package for operation, visualisation, parameterisation and control of all video components in a video control centre. The simple, intuitive operating and linking facilities for all Windows applications mean that IVM is an open system and suitable for integration.

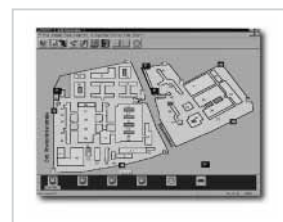
The software supports video cameras, TELEMAT video motion detection, SIMATRIX video matrix, TELSCAN digital video transmission system, SISTORE digital frame store and external systems.

- Uniform, user-friendly, graphical user interface
- Efficient video monitoring with event control
- Modular design - universal applicability
- Client/server architecture - single-user and multi-user systems
- High flexibility with multi-user systems resulting from user-specific access privileges and alarm management.

With standard IVM mode, provided a safe and proper operation up to the following stage of expansion:

- 3 x IVM clients or 3 terminal clients
- 5 x matrix switchers (max. 255 inputs in total)
- 1 x TELEMAT system (max. 30 channels)
- 50 x TELSCAN WEB Server
- 5 x digital recorders
- Max. 500 alarms per day

IVM licenses exceeding the above mentioned criteria are available upon request.



COIB0201	IVM basic license 16in/4out Including basic server license for IVM System and client with dongle for design systems up to 16 video inputs and 4 video outputs.	2GF9400-8FM	A24205-A336-B912
COIB0401	IVM basic license 32in/4out Including basic server license for IVM System and client with dongle for design systems up to 32 video inputs and 4 video outputs.	2GF9400-8FN	
COIB0801	IVM basic license 64in/8out Including basic server license for IVM System and client with dongle for design systems up to 64 video inputs and 8 video outputs.	2GF9400-8FA	
COIB1601	IVM basic license 128in/8out Including basic server license for IVM System and client with dongle for design systems up to 128 video inputs and 8 video outputs.	2GF9400-8FL	
COIB3202	IVM basic license 255in/16out Including basic server license for IVM System and client with dongle for design systems up to 255 video inputs and 16 video outputs.	2GF9400-8FB	
COIB3204	IVM basic license 255in/32out Including basic server license for IVM System and client with dongle for design systems up to 255 video inputs and 32 video outputs.	2GF9400-8FC	
COIB3208	IVM basic license 255in/64out Including basic server license for IVM System and client with dongle for design systems up to 255 video inputs and 64 video outputs.	2GF9400-8FD	
COIB3212	IVM basic license 255in/96out Including basic server license for IVM System and client with dongle for design systems up to 64 video inputs and 8 video outputs.	2GF9400-8FE	

management systems

Type	Description / Technical data	Order No.	Datasheet No.
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COIB3216	IVM basic license 255in/128out Including basic server license for IVM System and client with dongle for design systems up to 255 video inputs and 128 video outputs. IVM licenses for more than 255 inputs are available upon request.	2GF9400-8FF
COIS3001	IVM license TELEMAT IVM license for TELEMAT data concentrator medium.	2GF9400-8GA
COIR2001	IVM license for SISTORE Interface for the control and triggering of digital recording.	2GF9400-8GB
COIC1001	IVM license for client Client for expansion of an IVM system, incl. dongle.	2GF9400-8GC

accessories management systems

CRD1111	IVM video overlay card Video card for live on-screen display. With this card displaying analogue video signals on a VGA monitor is possible. IVM licenses for more than 255 inputs are available upon request.	2GF9400-8EA
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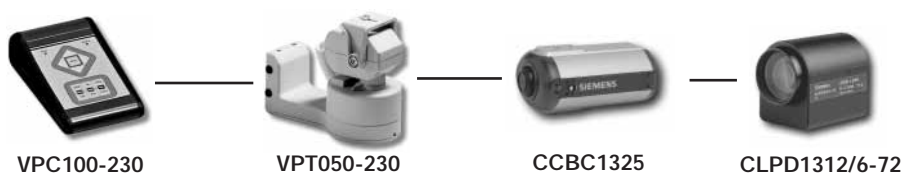


system diagrams

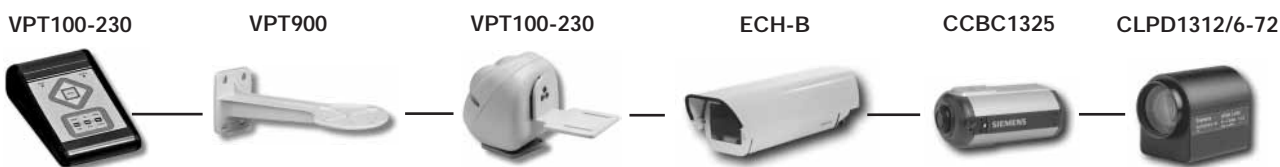
cables - for Siemens VRD telemetry systems

	Device	Cable Type	Characteristics	Max Distance	Device
Keyboards to telemetry receivers	VKB600	Twisted Pair	1 pair 0.22mm ² AWG24 (not shielded)	1500 m (current Loop)	VRD200-230 VRD100-24
Keyboards to telemetry receivers	VKB600	Twisted Pair	1 pair 0.22mm ² AWG24 (not shielded)	15 m (RS232)	VRD200-230 VRD100-24
Telemetry receivers to pan-tilts	VRD200-230	Multiple cable	7 x 0.56mm ² (AWG20)		Pan&Tilt 230V VPT100-230 VPT200-230 VPT050-230
Telemetry receivers to pan-tilts	VRD200-230 VRD100-24	Multiple cable	7 x 0.56mm ² (AWG20)		Pan&Tilt 24V VPT100-24 VPT200-24 VPT050-24
Telemetry receivers to lens	VRD200-230 VRD100-24	Multiple cable	6 x 0.34mm ² (AWG22)		Motorised Lens (Polarity Inversion)
Telemetry receivers to lens	VRD200-230 VRD100-24	Multiple cable	4 x 0.34mm ² (AWG22)		Motorised Lens (Common Wire)
Hardware controllers	VPC100-24	Multiple cable	7 x 0.56mm ² (AWG20)	100 m	Pan&Tilt 24V VPT100-24 VPT200-24 VPT050-24

pan & tilt - internal fixed speed hard wired



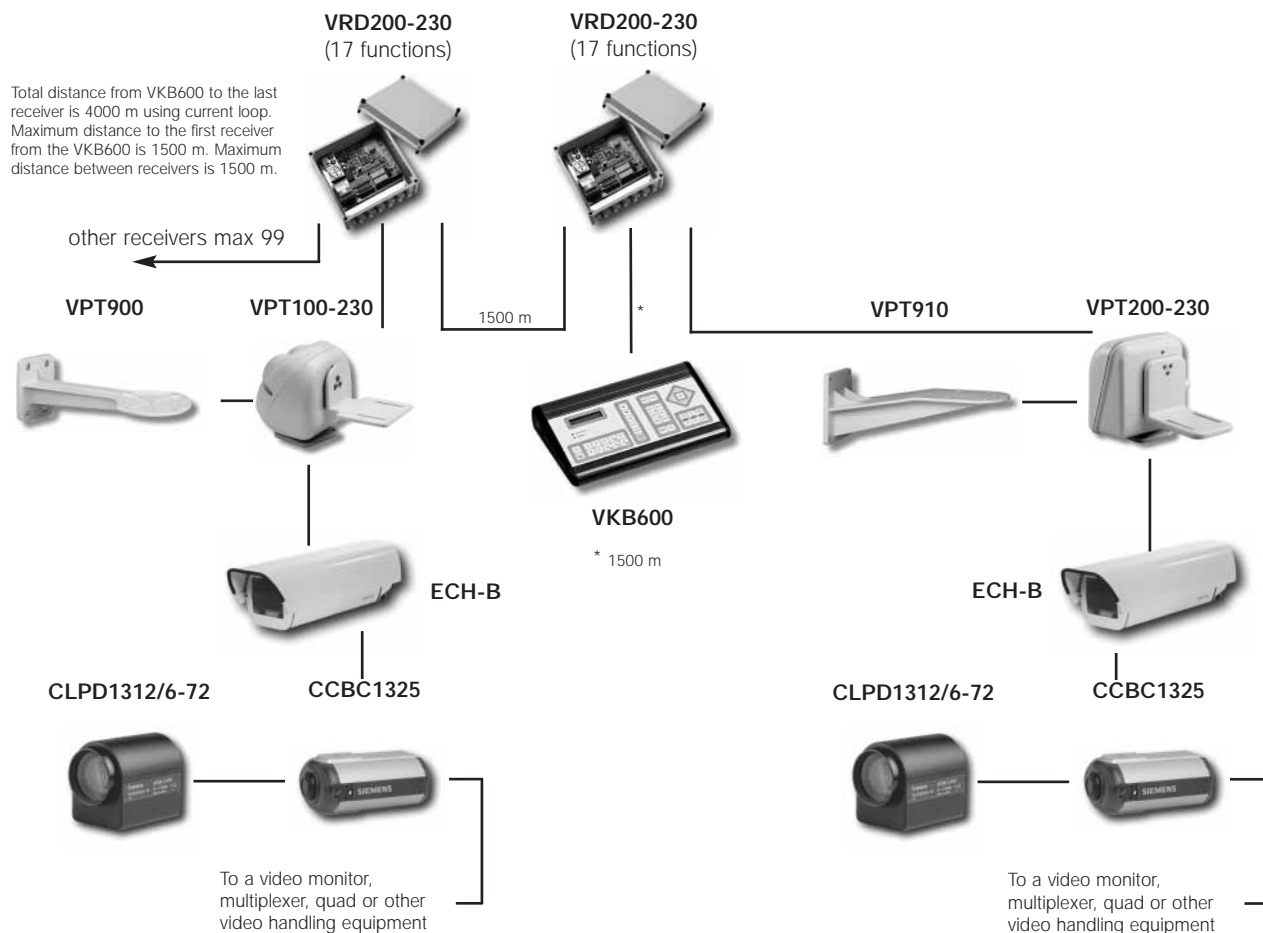
pan & tilt - external fixed speed hard wired 12 kg



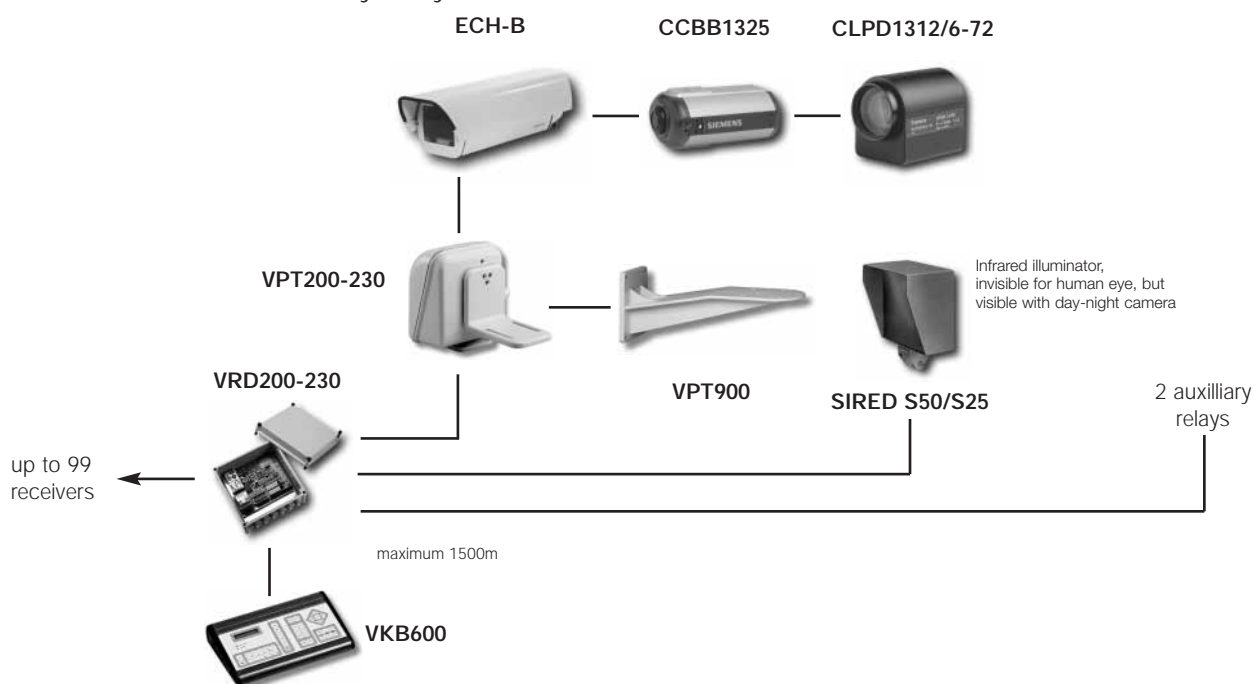
pan & tilt - external fixed speed hard wired 30 kg



pan & tilt system - fixed speed using VKB600 keyboard



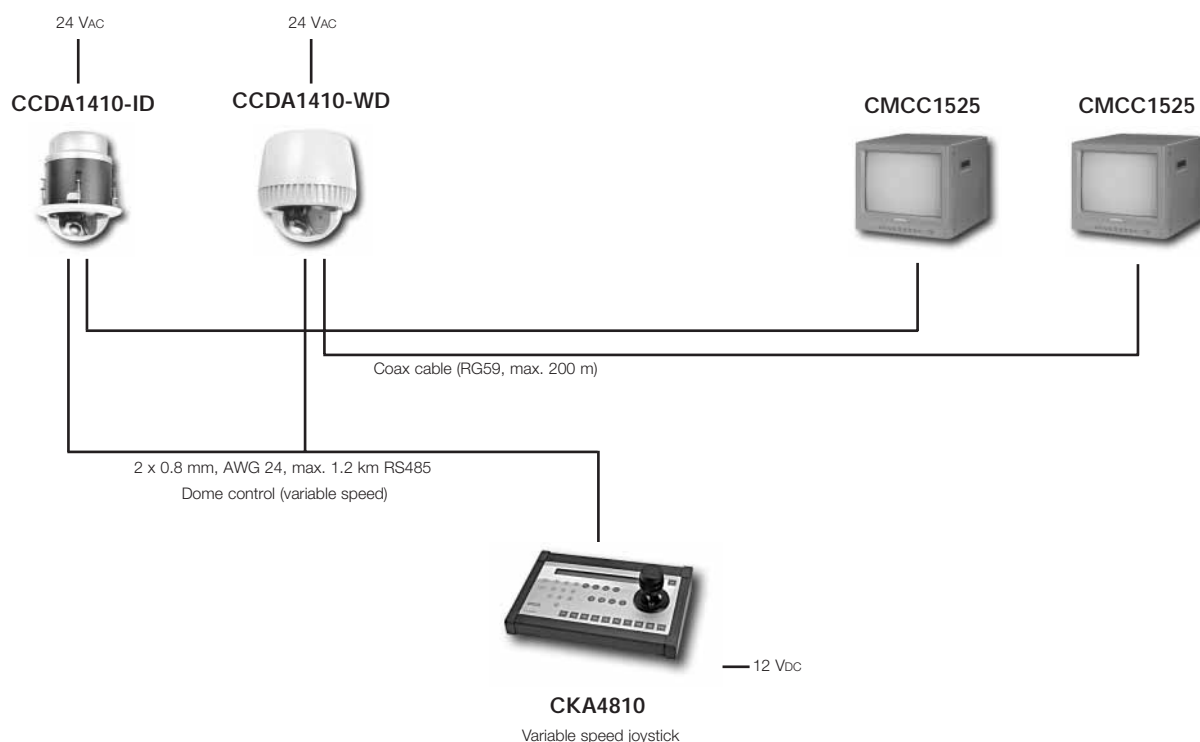
pan/tilt system - fixed speed with infra red and auxillary relays



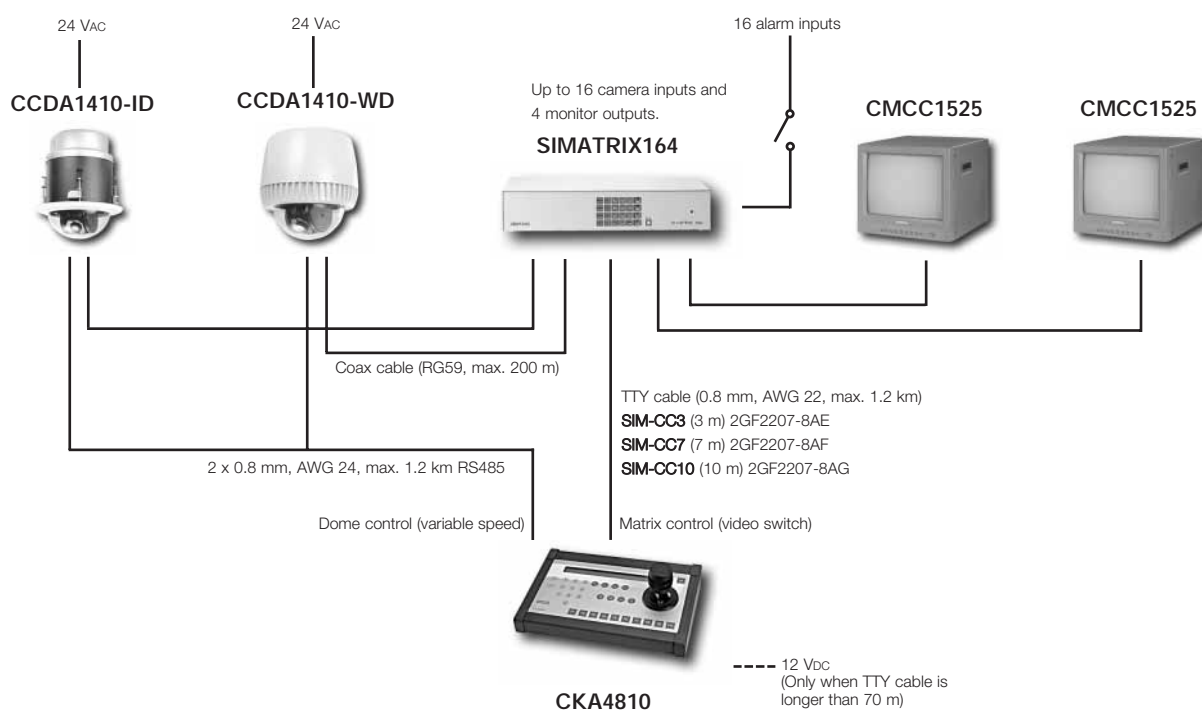


system diagrams

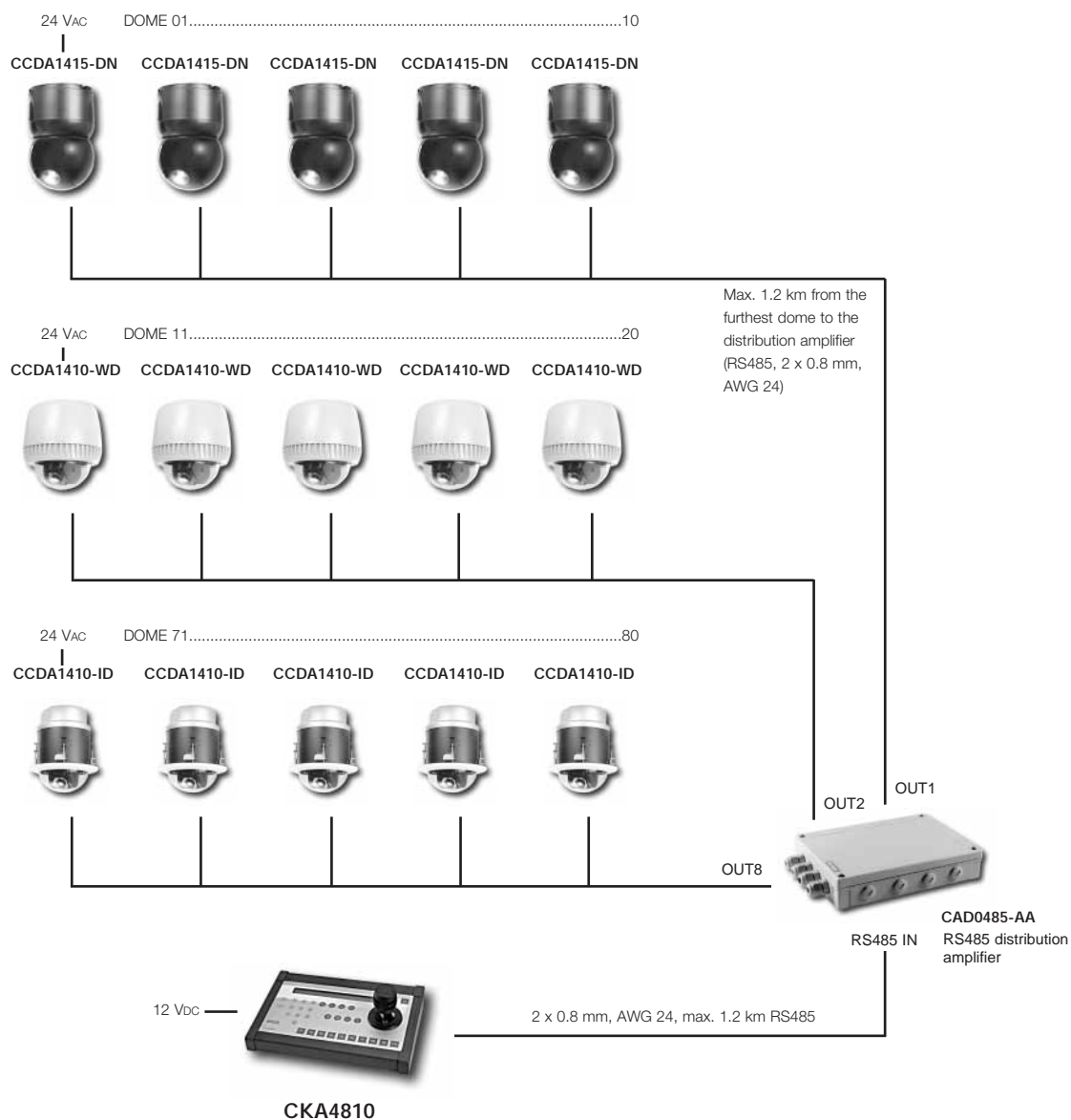
CCDA domes - with monitors and CKA4810 keyboard



CCDA-domes - with SIMATRIX and CKA4810 keyboard



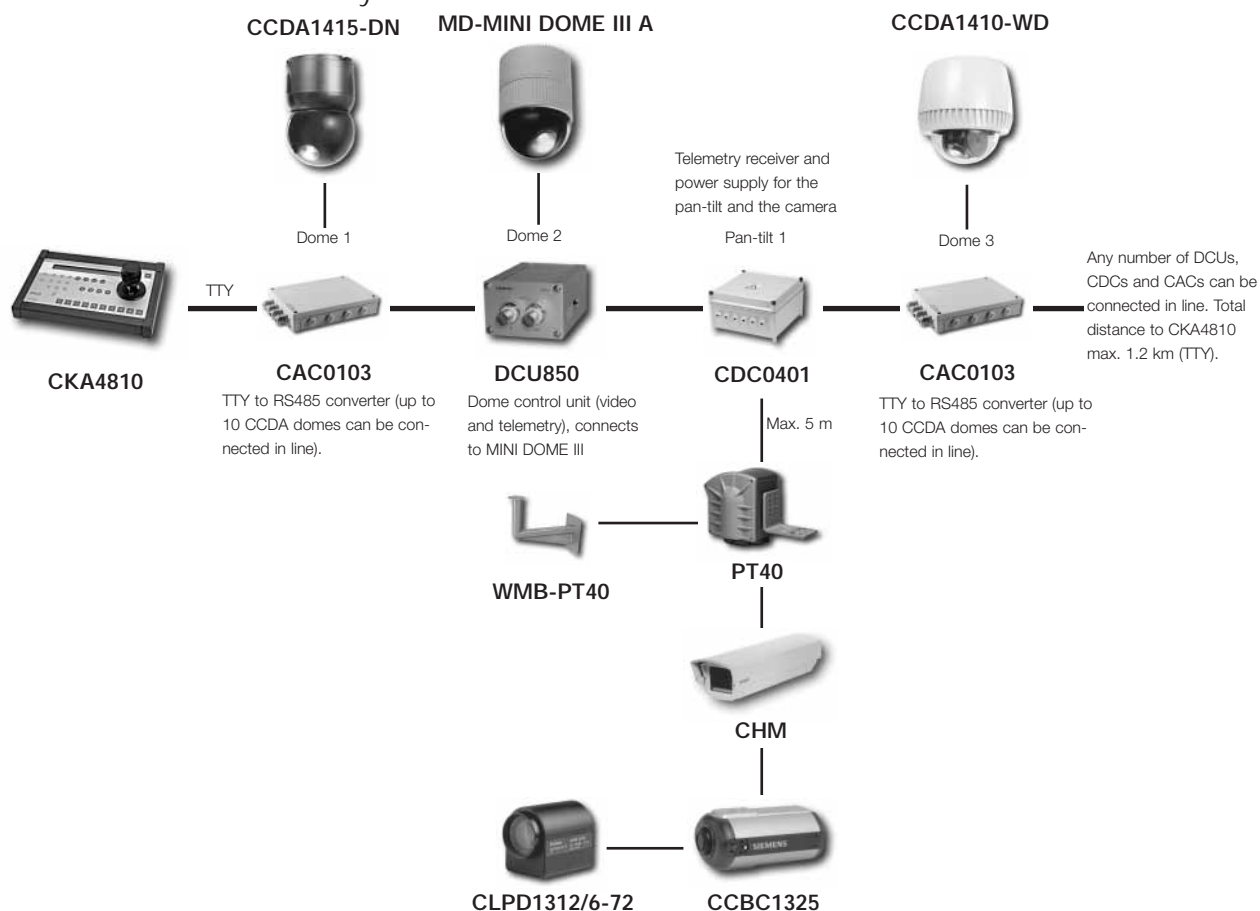
CCDA domes - with RS485 distribution amplifier & CKA4810 kbd



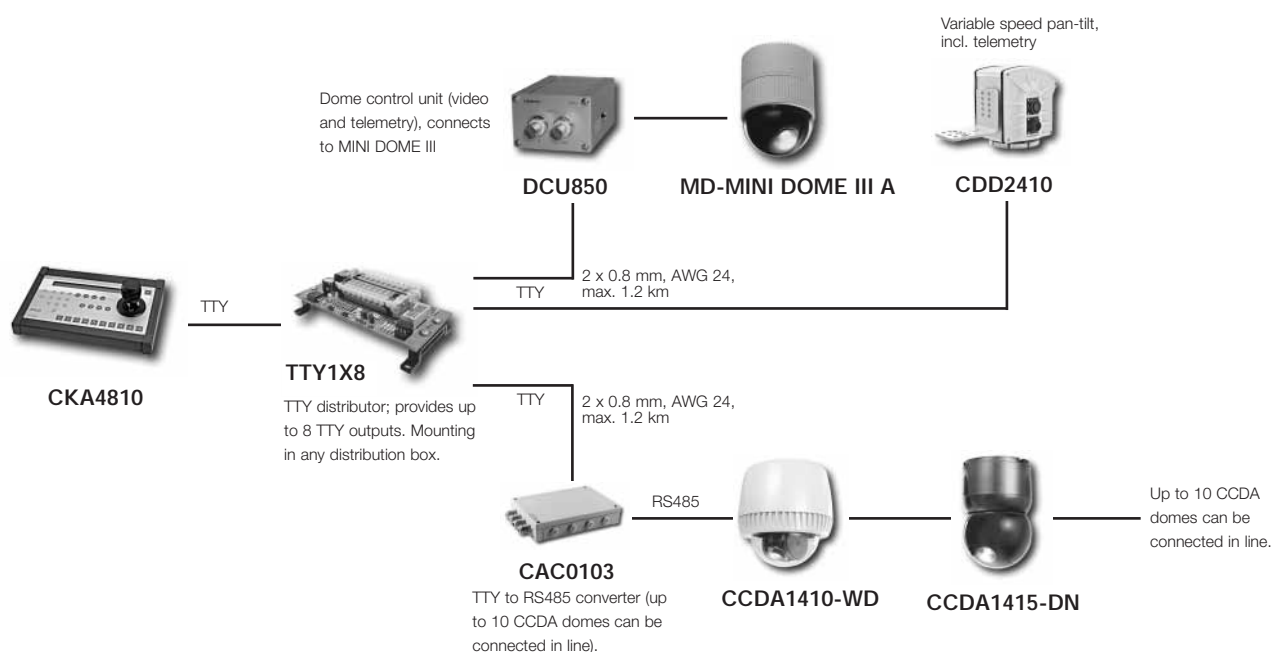


system diagrams

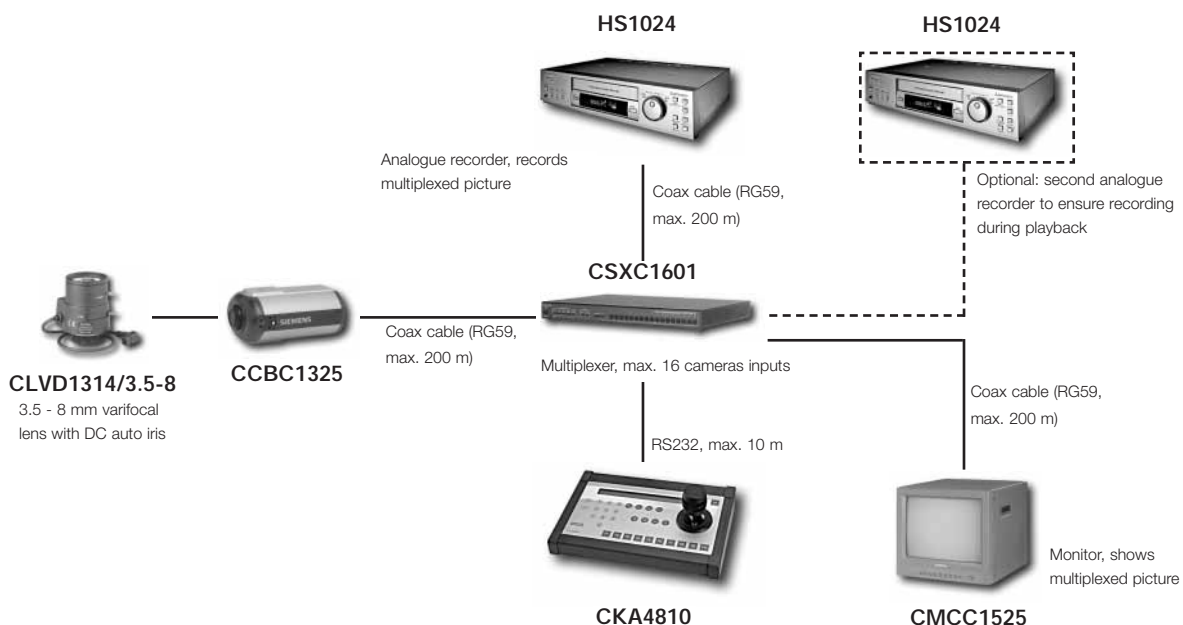
TTY telemetry - in series configuration with CKA4810 keyboard



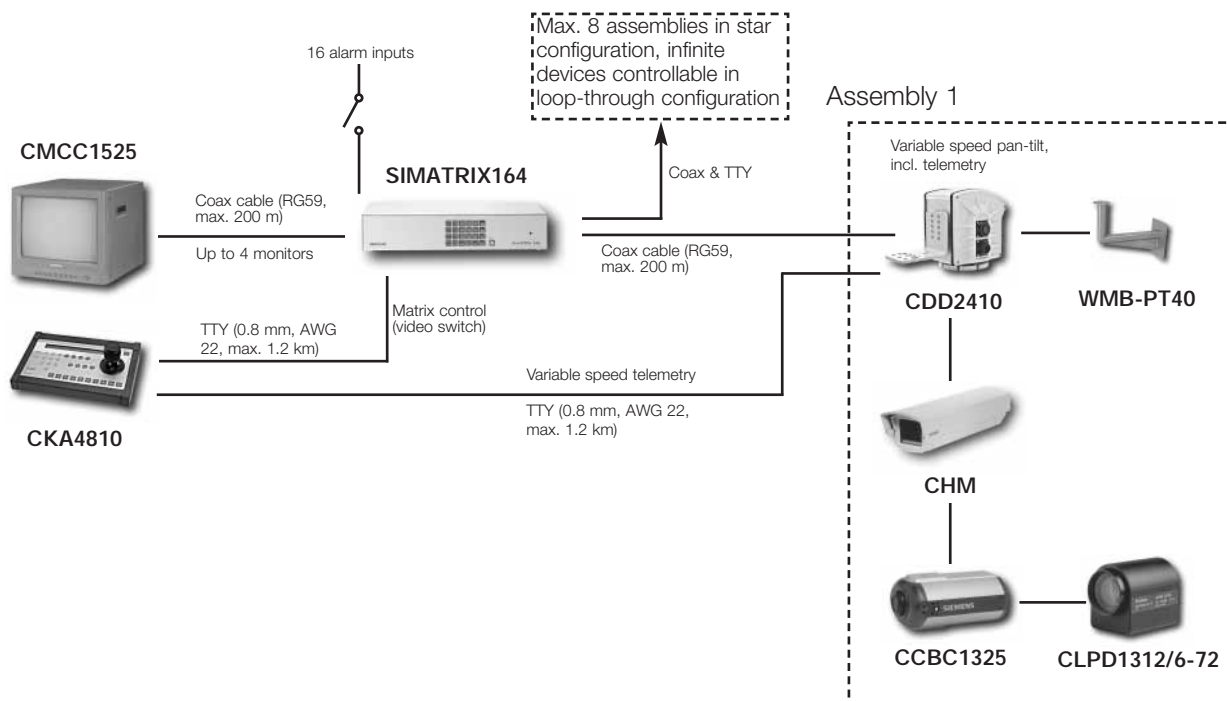
TTY telemetry - in star configuration with variable speed



CSXC1601-D multiplexer - controlled by CKA4810



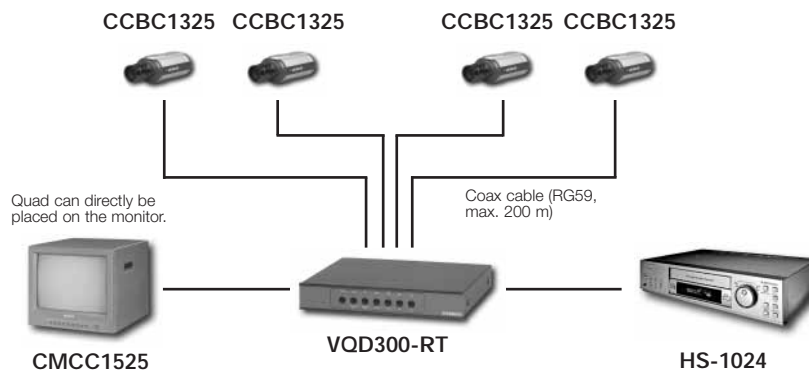
SIMATRIX - controlled by CKA4810



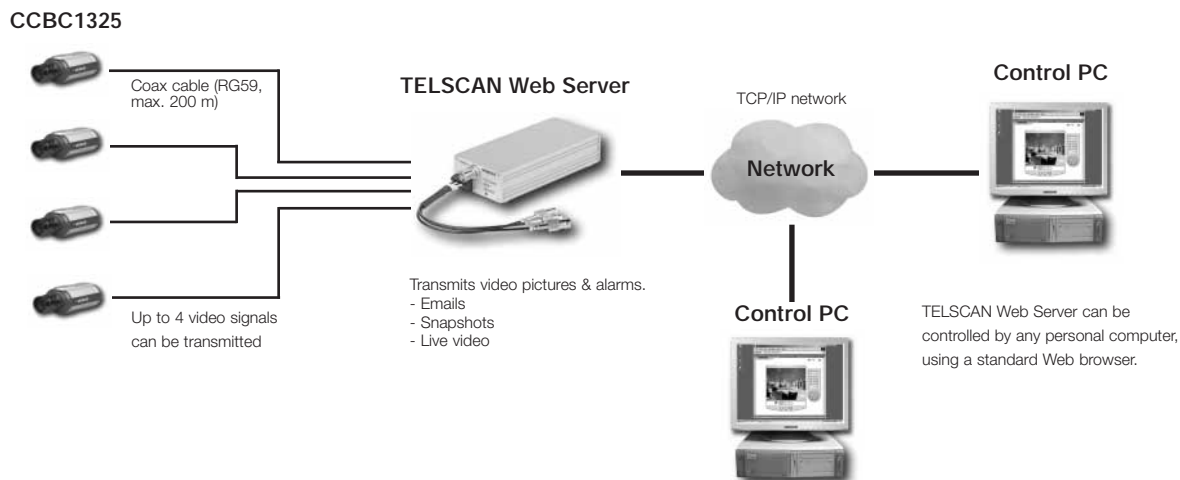


system diagrams

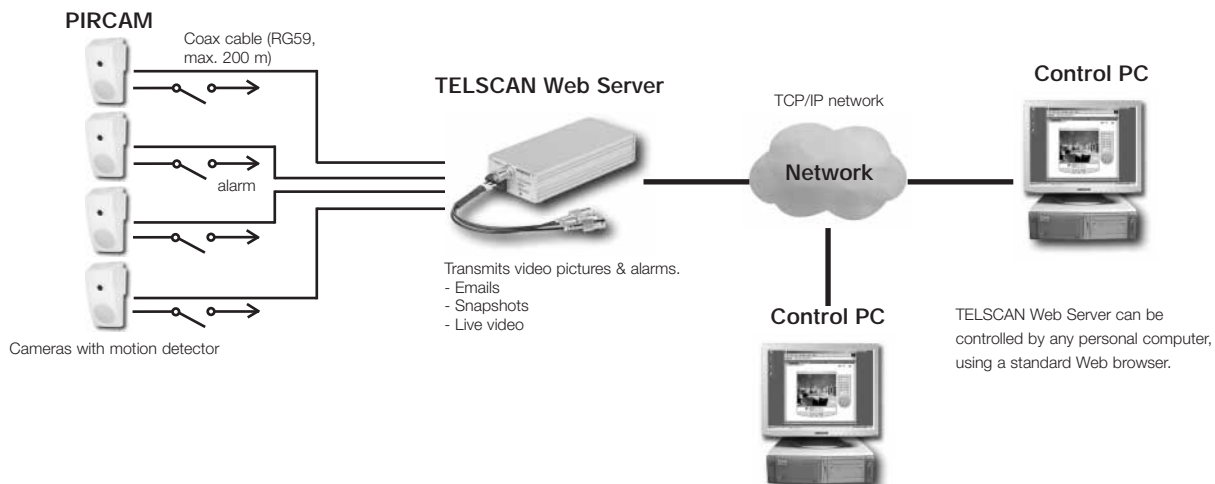
Quad - 4 cameras, monitor and VCR



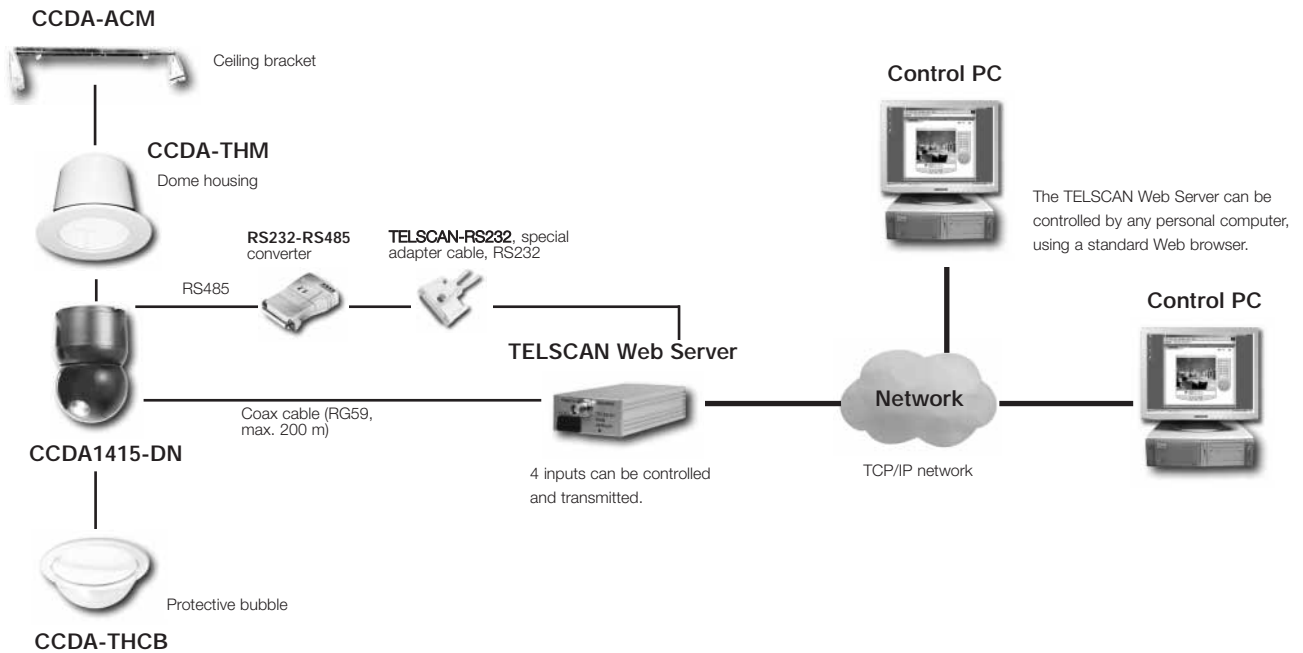
Webserver - 4 x camera transmission over ethernet



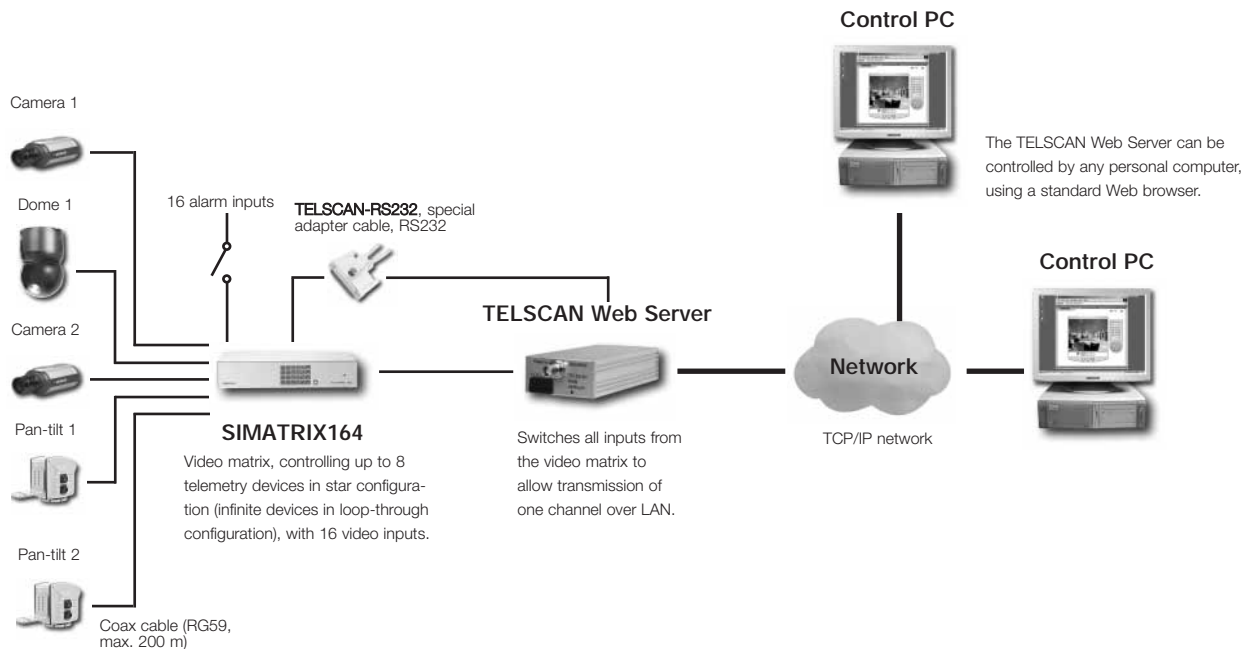
Webserver - 4 x PIRCAM alarm/video transmission over ethernet



Webserver - dome control over ethernet, plus video transmission



Webserver - SIMATRIX control & transmission over ethernet

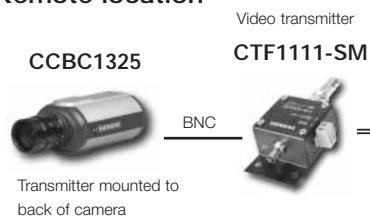




system diagrams

fibre optic - transmission for 1 camera

Remote location



1 fibre (50/125 or 62.5/125 μm , multi-mode), max. 4 km

Video receiver
CTF2111-SM

Video (coax)

Local viewing

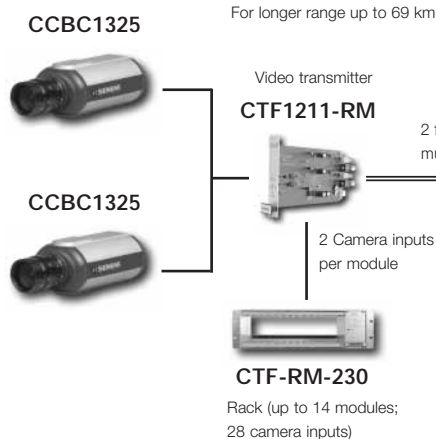


Quad, switcher or multiplexer can be connected here

For longer range up to 69 km please consider the Siemens 1300 nm fibre optic systems.

fibre optic - transmission for multiple cameras

Remote location



For longer range up to 69 km please consider the Siemens 1300 nm fibre optic systems.

2 fibres (50/125 or 62.5/125 μm , multi-mode), max. 4 km

Video receiver
CTF2211-RM

2 Video outputs per module



CTF-RM-230

Rack (up to 14 modules; 28 video outputs)

Coax cable (RG59, max. 200 m)

Local viewing

CMCC1525

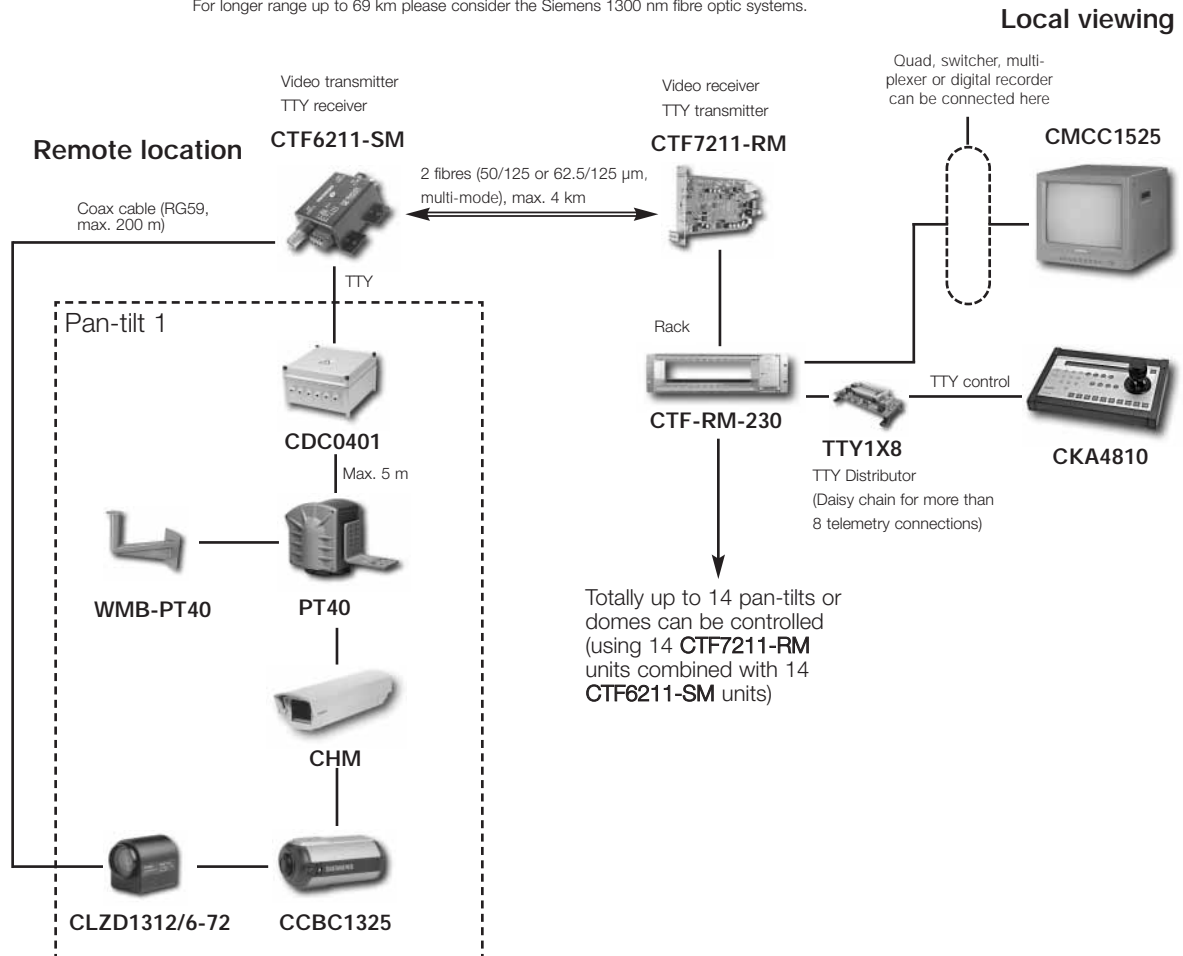


CMCC1525

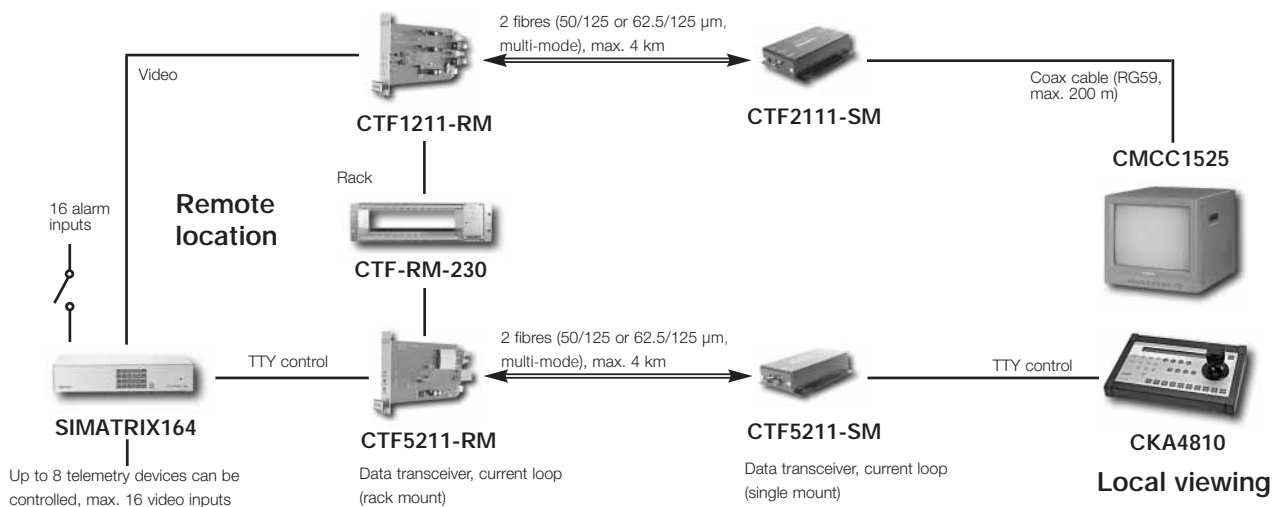
Quad, switcher, multiplexer or digital recorder can be connected here

fibre optic - telemetry and video transmission

For longer range up to 69 km please consider the Siemens 1300 nm fibre optic systems.



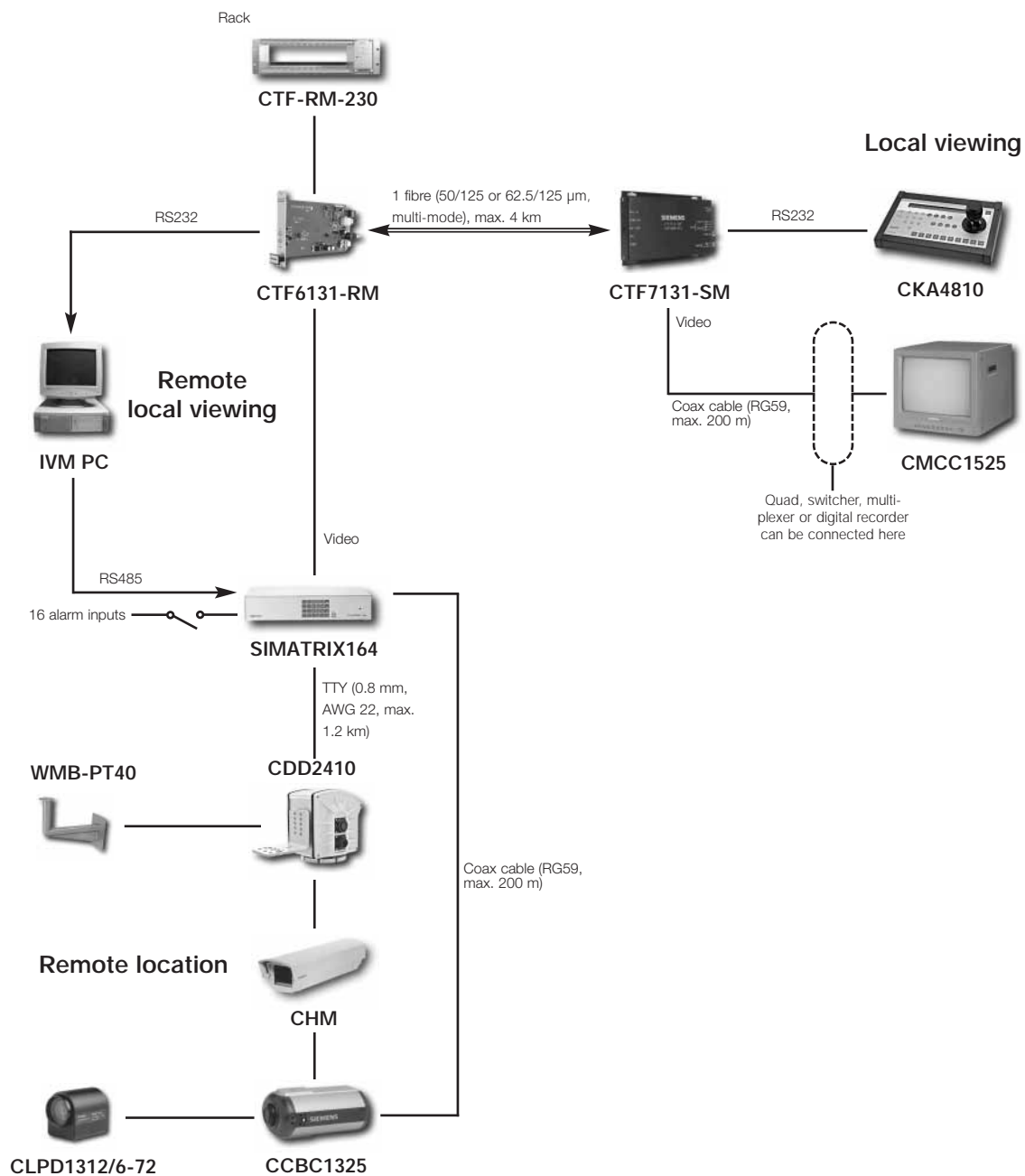
fibre optic - remote TTY data & video transmission for SIMATRIX



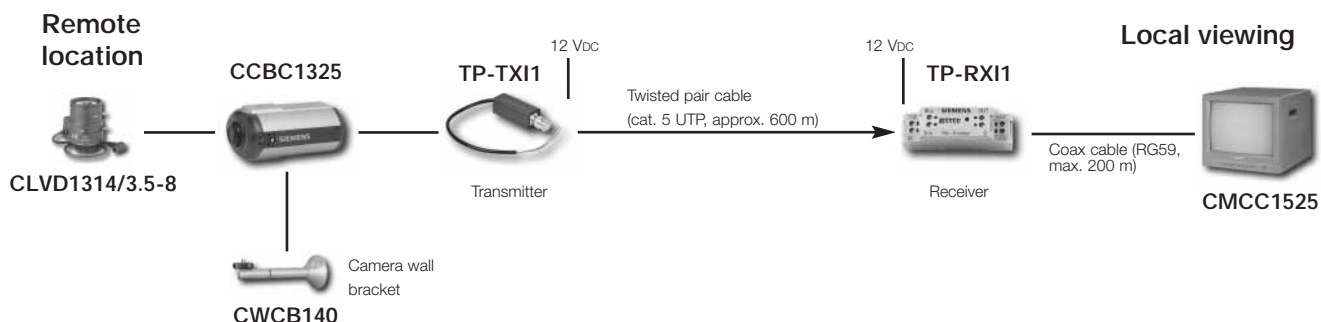


system diagrams

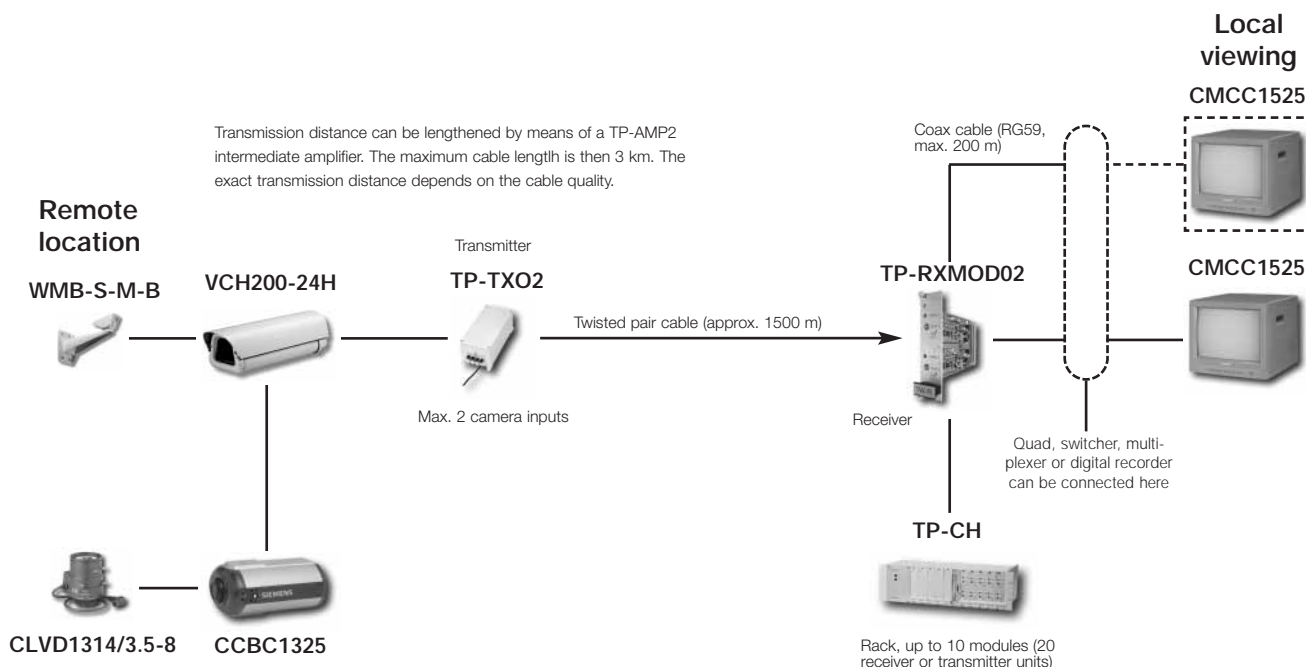
fibre optic - RS232/485 data & video
transmission & IVM control



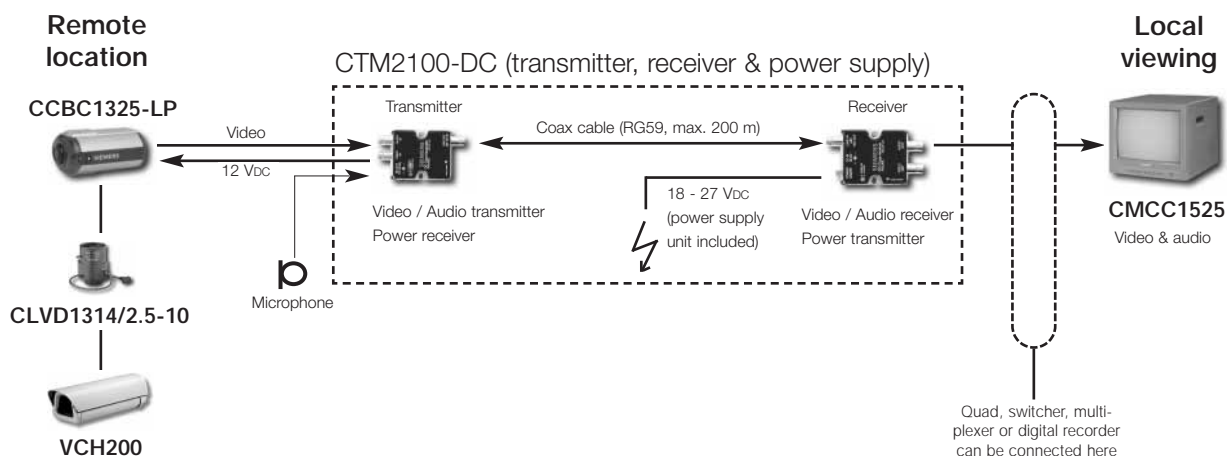
twisted pair - transmission for 1 camera, indoor



twisted pair - transmission system (Tx outdoor / Rx indoor)



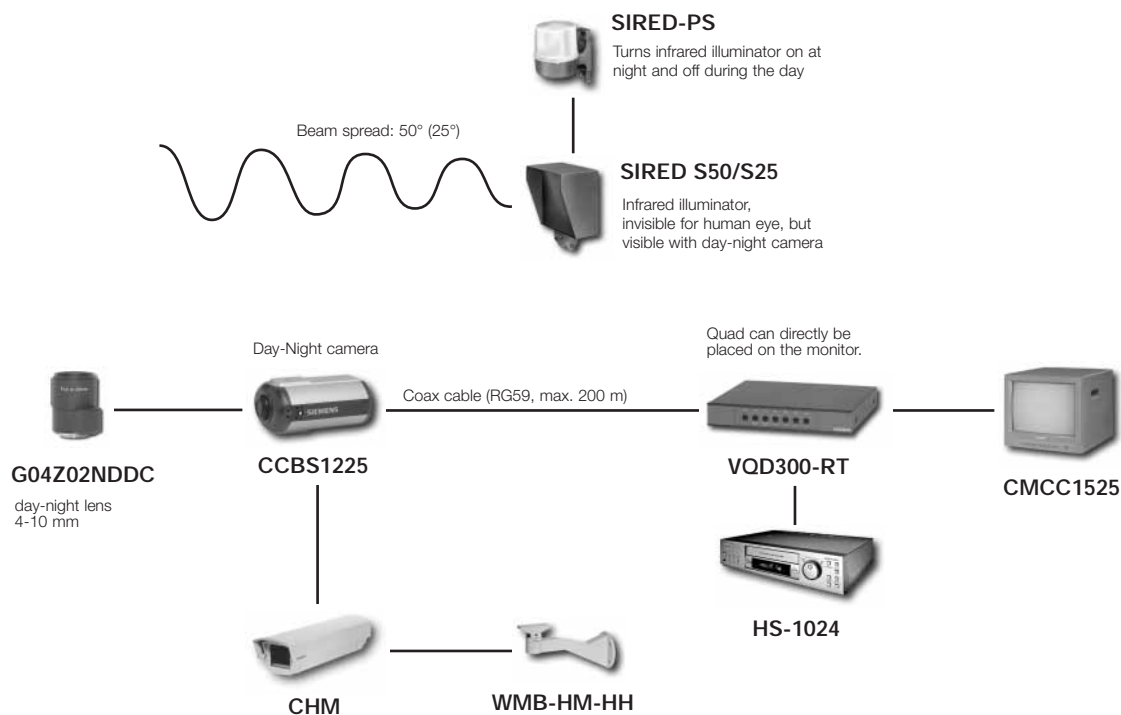
coaxial transmission - 1 camera audio & power



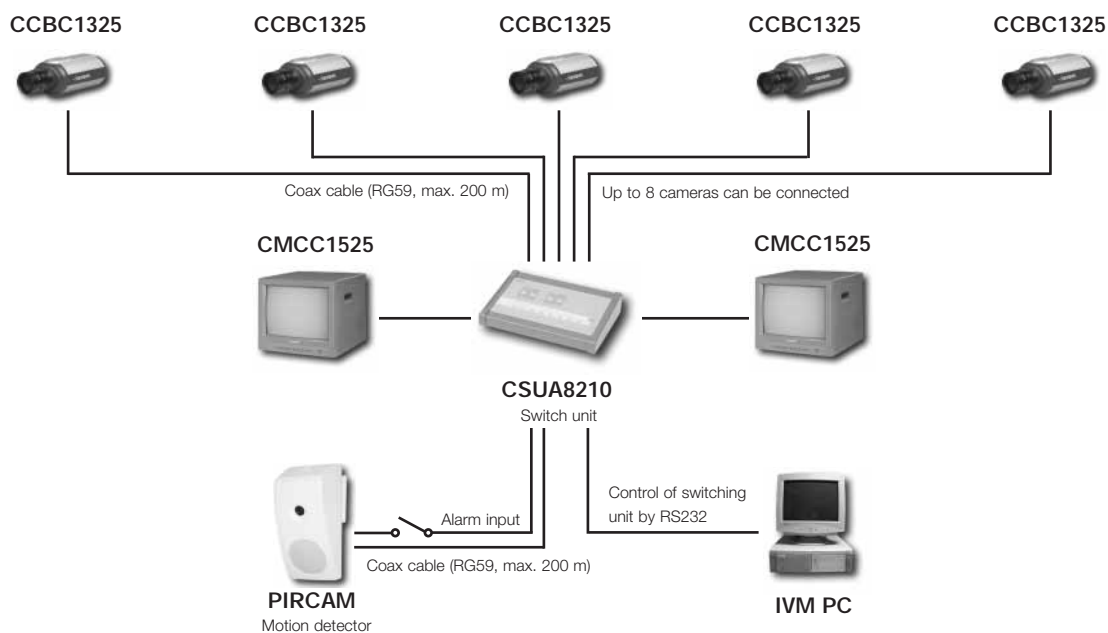


system diagrams

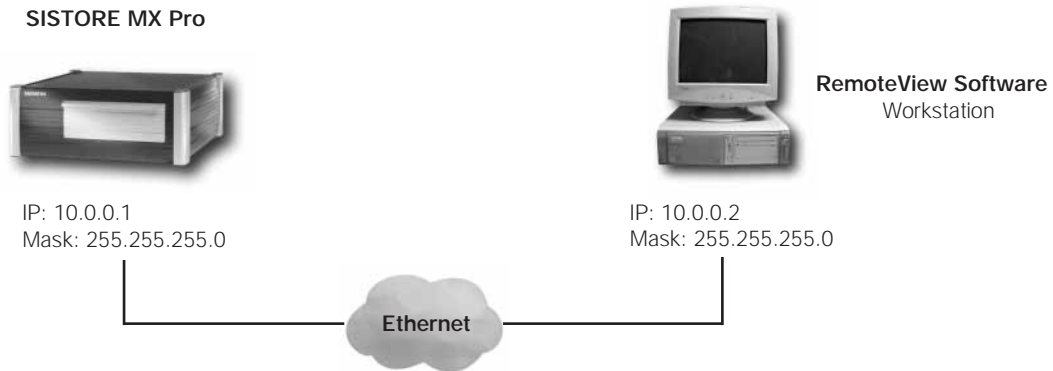
day-night camera - with infrared lighting & time-lapse recording



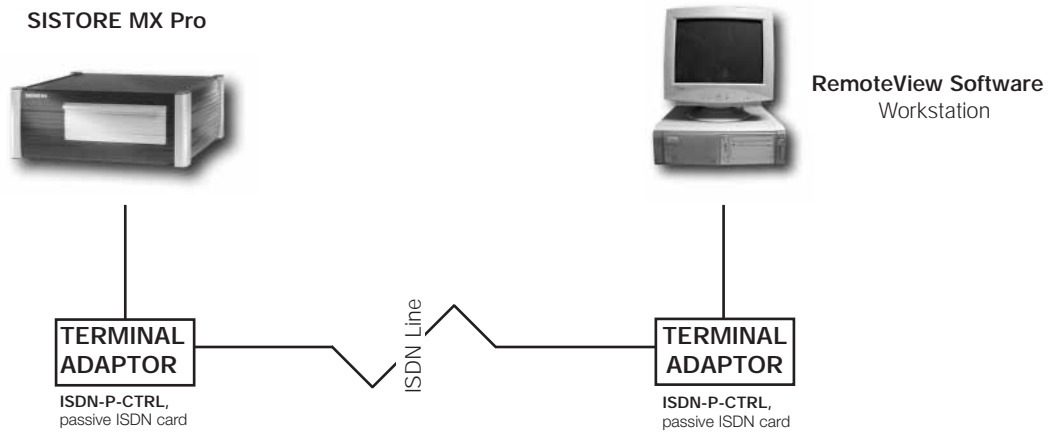
CSUA8210 8x2 switcher - with IVM remote control & PIRCAM



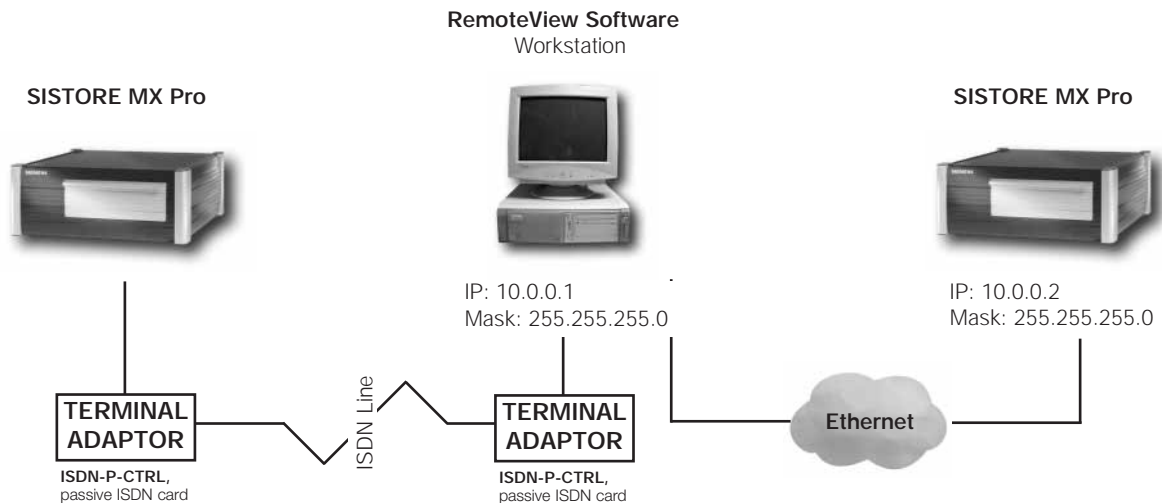
MX Pro - PC remote access over ethernet



MX Pro - PC remote access over ISDN



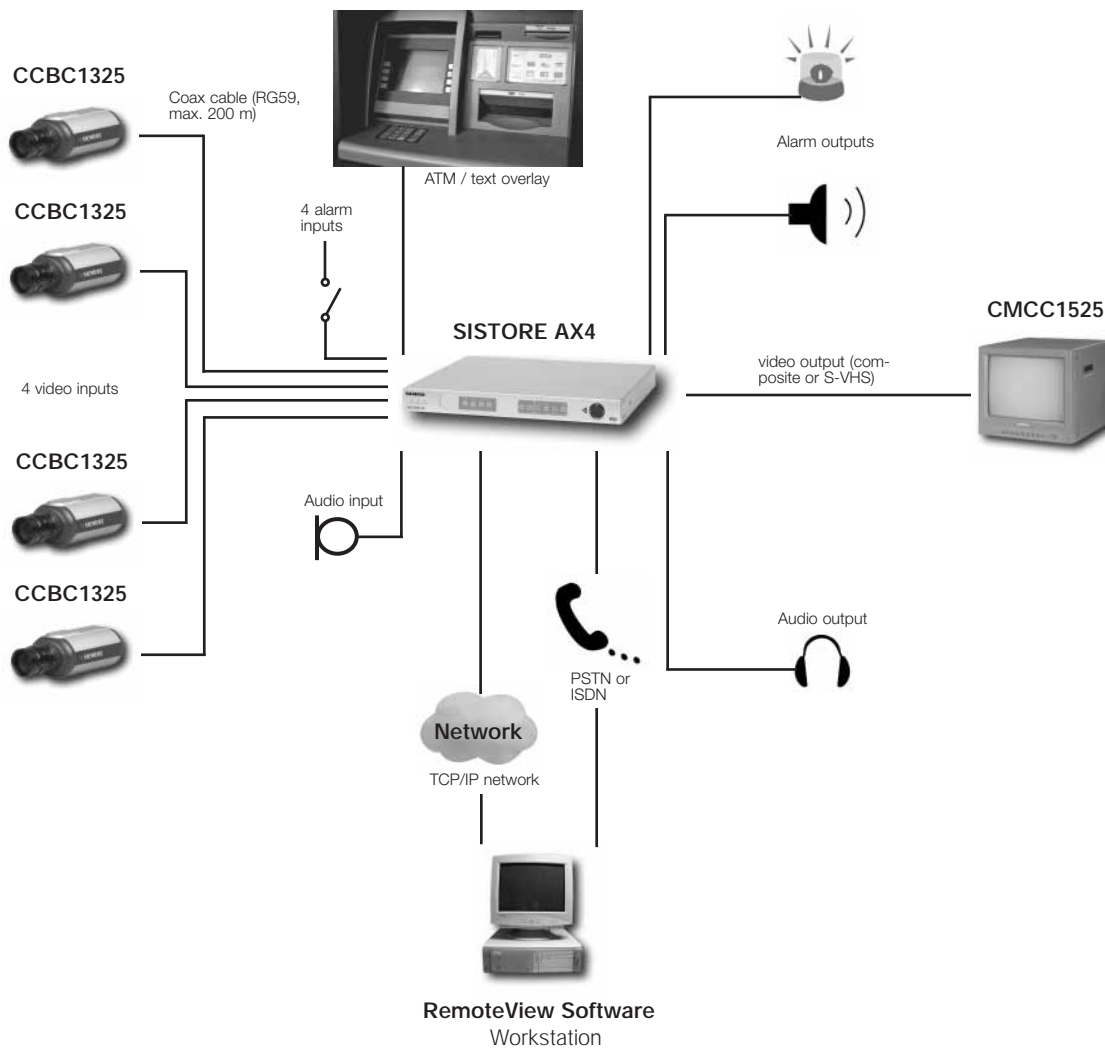
MX Pro - PC access via ISDN & ethernet to 2 x MX Pro systems





system diagrams

SISTORE AX4 - complete system



Why back focus?

When the lighting level falls, the auto iris opens and the depth of field changes. This can be seen when cameras that are in focus during good lighting conditions tend to "defocus" when the light level falls.

It is very simple problem to solve - always install the camera using a "Neutral Density (ND) filter". Placing these filters in front of the lens simulates conditions at very low light levels, such as dawn and dusk, this will allow for the correct setting of focus and back focus.

The objective is to open the lens iris to its maximum. The grading of ND filter will vary depending on the ambient light - on a very bright sunny day you will need a larger ND filter (number) than on a cloudy overcast day.

To select the correct ND filter, place it over the lens until you can just see the picture but are able to focus clearly.

Manual and fixed iris lenses

1. Set the camera to an object at a point in the distance (the target will appear very small on the monitor).
2. If the lens has a focus ring, set this to infinity.
3. Adjust the lens iris to the widest opening then place the appropriate ND over the lenses to simulate the low light.
4. Adjust the camera focus to achieve the sharpest (clearest) picture.
5. Remove the filter.

Focusing a fixed auto iris lens

1. Set the camera to an object at a point in the distance (the target will appear very small on the monitor).
2. If the lens has a focus ring, set this to infinity.
3. Adjust the lens iris to the widest opening. This is best done by placing the appropriate ND filter over the lenses to simulate the low light, which will naturally force the iris open.
4. Adjust the camera focus to achieve the sharpest (clearest) picture.
5. Adjust the Level and ALC controls on the lens for best performance.
6. Remove the ND filter.

Using International Protection (IP) ratings

IP rating is used in this catalogue for defining the weatherproof standard of CCTV products. This is mainly for outdoor product of prime importance. The following table shows the definition of the international protection ratings and helps you to select the proper equipment for you application.

First number: Protection against solid objects

- 0 = No protection
- 1 = Protected from solid objects up to 50 mm (e.g. accidental touch by hands)
- 2 = Protected from solid objects up to 12 mm (e.g. fingers)
- 3 = Protected from solid objects more than 2.5 mm (e.g. tools and small wires)
- 4 = Protected from solid objects more than 1 mm (e.g. small wires)
- 5 = Protected from dust; limited entrance (no harmful deposit)
- 6 = Totally protected from dust

Example: IP67 rated product:

The first number is the protection against solid objects:

6 = Totally protected from dust

The second number is the protection against liquids:

7 = Protected from the effects of immersion between 15cm and 1m

Focusing a zoom lens

1. Place the appropriate ND filter over the lens, this will force the iris open.
2. Set the focusing ring to "far" or wide angle.
3. Aim the camera at an object approximately 30-50 metres away. The object appears very small on the monitor.
4. Adjust the camera focus for maximum clarity.
5. Zoom the lens to an object nearby (close up).
6. Set the lens focus for maximum clarity.
7. Remove the ND filter. It should now be possible to zoom in and out over the field of view maintaining good focus.

Cleaning of lenses & CCD

Proper cleaning procedures will minimise the amount of time it takes to clean the surfaces of the lens and CCD imager.

To clean the front and rear surfaces of the lens,

1. Detach the lens from the camera.
 2. Before rubbing the surface area of either the lens or the CCD imager, blow any loose particles using a pressurized "air duster". (can be purchased from photographic supply dealers)
 3. Apply a minimum amount of alcohol to clean the surface areas of both the lens and the CCD imager, via a cotton swab. (recommended solvents would include 89-91% ETHANOL, or PROPANOL with a residue value after evaporation of maximum 0.001%).
 4. Rub lightly with a dry cotton swab after evaporation
- Blow again with the "air-duster" to remove remaining dirt or dust particles.

Do not use acetone, as this destroys plastic materials.

Second number: Protection against liquids

0 = No protection

1 = Protected from vertically-falling drops of water (e.g. condensation)

2 = Protected from direct sprays of water up to 15° from vertical

3 = Protected from direct sprays of water up to 60° from vertical

4 = Protected from water sprayed from all directions; limited entrance allowed

5 = Protected from low pressure jets of water from all directions; limited entrance allowed

6 = Protected from strong jets of water (e.g. for use on ship decks); limited entrance allowed

7 = Protected from the effects of immersion between 15 cm and 1m

8 = Protected from extended periods of immersion under pressure

Example: IP41 rated product:

The first number is the protection against solid objects: 4 =

Protected from solid objects more than 1 mm (e.g. small wires)

The second number is the protection against liquids: 1 = Protected from vertically-falling drops of water (e.g. condensation)



glossary of cctv terms

Aberration

Is a term from optics that refers to anything affecting the quality of the image in regards to the original scene.

Absorption

Parts of a video signal are absorbed by the material, e.g. by a fibre cable. Therefore the transmission distance is not infinite.

AC

Alternating current. - Mains power is alternating current. Current voltages are 24 VAC, 115 VAC or 230 VAC.

Activity Detection

Is a feature built into equipment for detecting movement within the camera field of view, which is then used to improve the cameras recording update rate.

ADC

Analogue to digital conversion is usually the first stage of an electronic device that processes signals into a digital format. The signal can be video, audio, control output or similar.

AES

Automatic electronic shutter - See "Shutter".

AGC

Automatic Gain Control is the electronic circuitry in a camera that is used to increase the video signal and becomes operational when the light level is low. This usually introduces 'noise' in the picture giving a grainy appearance.

AI

Automatic iris - See "Auto iris".

Alarm Input

Is a equipment connection, which allows external alarms like PIRs, reed switches, etc to be connected to CCTV equipment so that a nominated camera is switched on when an alarm input signal is received by the received.

ALC

Automatic Light Compensation is a setting in an auto iris lens to control the iris opening. It can be adjusted between peak and average to respond to the bright part of the scene (peak setting) or the average value of the video signal (average setting).

Algorithms

Are complex mathematical formulae or rules used to solve problems. In CCTV, they are used to achieve digital compression of a video picture.

Ampere

Unit symbol A. Is the unit to measure electric currents.

Amplitude

The amplitude refers to the level of the video signal at a point and is measured in volts.

Analogue Signal

In video, the analogue signal represents the camera scene in the form of varying voltage levels in the video signal, the voltage being directly proportional to the light level.

Angle of Refraction

The angle of refraction is the deflection of light when it travels from one medium into another.

Angle of View

Represents the area of the scene (maximum horizontal and vertical angle) that can be seen through a lens. It is measured in degrees.

Aperture

The lens aperture dictates the amount of light reaching the surface of the CCD. The size of the aperture is controlled by the iris adjustment, by increasing the f-stop number (F1.4, F1.8 etc) less light is passed by the lens to the CCD.

Archive

The term archive is used for long term off line storage. In digital systems, pictures are generally archived onto some form of hard disk.

ASCII

This is an internationally acknowledged character set standard.

Aspect Ratio

This is the ratio between the horizontal and the vertical lengths of the image. The aspect ratio for NTSC and PAL systems is 4:3, which means 4 horizontal units by 3 vertical units.

Aspherical Lens

Using an aspherical surface these types of lenses are more difficult and more expensive to manufacturer. They are, however, fewer lens aberrations to correct for with an aspherical lens.

Asynchronous data transmission

Stands for a transmission technique that uses control bits in the video line to ensure correct transmission.

Attenuation

The decrease or loss in magnitude of a wave, or a signal, as it travels through a medium or an electrical system. Attenuation is measured in decibels (dB).

Auto Balance

Is a system of detecting and automatically correcting errors in the amplitude of colour signals.

Auto Iris (AI)

A lens with an auto iris can automatically adjust to correct the amount of light that is passed to CCD of a camera. There is a tiny motor and amplifier built into the lens body, which receives a control signal from the camera to maintain a constant one volt peak to peak video level. There are two manual controls on the lens to compensate for varying conditions of 'peak' and 'average' light.

Auto pan

Is a feature of a pan tilt or pan only head which allows the head to continuously move (pan) left and right between two fixed points. These fixed points can be set by adjusting the limit switches in the head.

Average Video Signal

Represents the average light level of the whole picture used to open or close the automatic iris in the lens.

AVG

Alphanumeric Video Generator is a device for providing additional information, normally superimposed on the picture being displayed. This can range from one or two characters to full screen alphanumeric text. Such generators use the incoming video signal sync pulses as a reference point for the text insertion position, which means if the video signal is of poor quality, the text will also be of poor quality.

Backlight compensation

Special feature of video cameras. Prevents the effect that everything appears dark in front of a bright object (e.g. a window).

Back Focus

The back focus is a procedure of fine mechanical adjustment in the camera, which moves the CCD or the lens mount to compensate for different back focal lengths of different lenses.

Backlash

An error present in a pan and tilt head due to the play in the mechanical components like gears, pulleys etc. This results in the Pan Tilt head not stopping instantaneously. This error is critical in pre-set PTZ cameras and is measured in degrees.

Back Porch

The back porch is the portion of a video signal that occurs during blanking from the end of the horizontal sync to the beginning of active video. It is also the blanking signal portion that lies between the trailing edge of a horizontal sync pulse and the trailing edge of the corresponding blanking pulse. The colour burst is located on the back porch.

Balanced Signal

In CCTV this refers to the transmission of a video signal through a twisted pair cable. It is called balanced because the signal travels through both cables, using opposing polarities to help reduce any losses due to interference.

Balun

A balun is a device used to match or transform an unbalanced coaxial cable to a balanced twisted pair system.

Bandwidth

Is the range of frequencies which pass through an electronic amplifying, processing or transmission equipment without attenuation or loss.

Barrel Distortion

Is a distortion in the monitor due to non uniform scanning which causes the image to bulge outward like a barrel.

Baud

The term baud is used to express the data exchange rate, typically the baud settings of two devices must match if the devices are to communicate with one another.

Beam Angle

Is the angular beam width of a conical beam of light and is measured in degrees.

Bifurcator

An adapter used to split a loose tube containing two optical fibres into two single fibre cables.

B-ISDN

Broadband Integrated Services Digital Network. An improved ISDN composed of an intelligent combination of more ISDN channels into one that can transmit more data per second.

Bitmap

A bitmap is a pixel by pixel description of an image each pixel is a separate element.

BlackBurst

A composite colour video signal. The signal has composite sync, reference burst and a black video signal, which is usually at a level of 7.5 (50mV) above the blanking level.

Black Level

It electronically represents the black part of an image corresponding to approximately 0.3 volts.

Blanking Pulse

Is a black pulse added during the fly back period to make the video signal invisible on the screen.

BNC Connector

Is a type of connector used to interconnect two coaxial cables or connect a cable with other CCTV components.

Bridging Switcher

Is a type of sequential switcher which has two outputs. The sequencing output sequences all the camera inputs whereas the other output is a spot output where any camera can be called up for extended viewing.

Brightness

Represents the intensity of illumination of the reproduced picture.

Brightness Control

Is a control in the monitor which does not change the amplitude of the video signal but increases or decreases the illumination of the phosphors on the screen.

Broadcasting Camera

Is a high quality camera using three CCD chips. It is used extensively in the Broadcasting professional industry.

C-mount

Is a lens mount with 17.526mm back flange. The back flange is the distance between the lens mounting surface and the CCD chip. Cameras with CS-mount need a special adapter ring to be used with C-mounted lenses (supplied with every camera).

Cable Compensated Amplifier

High frequency video signals are attenuated when transmitted through cables. A cable compensated amplifier boosts the high frequency signals depending upon the cable distance. This ensures minimum video loss.

Cable Core

Is the central part of the cable which actually carries the video, control or power signals. It can be made up of a single conductor (solid core) or a number of electrical wires.

Cable Jacket

Is the outer protective coating which covers the core of the cable.

Cable Tray

Is a long tray installed in many sites which allows cables to be economically laid out.

Camera

Is an electronic device which converts light into an electrical signal.

Camera Controller

Controls the different functions of a pan & tilt head and the zoom lens. It is also known as the PTZ controller.

Candela

Is a new unit which replaces the candle and is a measurement of luminous intensity.

Cathode Ray Tube (CRT)

Is a tube in the monitor containing a heated cathode which emits a beam of electrons focused on a phosphor coated surface. The surface glows depending upon the intensity of the beam. The deflection circuitry in the tube controls the movement of the beam.

CCD

Charge Coupled Device is a solid state device in a camera that converts light falling on it into an electrical signal.

CCD Iris

Is a feature in modern CCD cameras by which the iris function is performed by the CCD chip itself. This eliminates the need for an auto iris lens. The CCD iris can handle minor light fluctuations only and therefore is not recommended for most outdoor applications.

CCIR

International Radio Consultative Committee recommends a format of 625 lines per frame and a transmission speed of 25 frames per second.

CCTV

Closed circuit television

Channel Separation

When signals are multiplexed at different frequencies for transmission, then the separation between these frequencies is called channel separation. Poor separation can lead to cross talk.

Chassis

Is used as a carrier for a certain number of slide-in modules. A power supply in the chassis ensures power for the modules. The CCTV chassis fit the industry 19" standard.



glossary of cctv terms

Chromatic Aberration

Is an error in lenses which causes the focal point to be scattered. This occurs because different wavelengths of light bend differently through a lens. A combination of lenses are required to minimise this error.

Chrominance Signal

Is that part of the video signal which contains the colour information. In S-VHS, this signal is transmitted along a separate cable. In a composite video signal, the chrominance signal is multiplexed at a higher frequency and sent along the same cable.

Colour Stripe Filter

This type of filter is placed in front of a colour CCD chip. It breaks up light into the basic colours - red, green and blue which are then directed to separate pixels in the CCD chip.

Common Sync

Is a device used to synchronise cameras. It generates synchronising pulses that are sent to all cameras connected to it by coaxial cable.

Generator

Composite video is a standard signal format in CCTV which contains the video signal, the horizontal and vertical sync pulses and the blanking pulses.

Concave

Is a type of optical lens in which the light rays passing through it are made to diverge by the inward bulge of the glass surface.

Conduit

Is a plastic or metallic tube which is used to conceal, protect or secure cables.

Connector

Is a device used to interconnect cables or connect cables to various equipment.

Contrast

Is the difference in the intensity between the black parts and white parts of the picture on the monitor.

Contrast Control

Is a control in the monitor which changes the contrast by increasing or decreasing the amplitude of the video signal.

Covert

Is a mode of CCTV surveillance in which the camera and lens are hidden and cannot be seen.

Convex

Is a type of optical lens in which the light rays passing through it are made to converge by the outward bulge of the glass surface.

Crimping

Is a process of connecting a cable to a connector without screwing or soldering using a special tool. In crimping a BNC connector, the centre pin of the connector is uniformly pressed against the cable core. To ensure a proper connection, a good crimping tool is needed.

Cross Talk

Is the noise generated by the interference between adjacent (in terms of signal frequency) video, audio or data channels in a multiplexed signal.

CS-Mount

Is a lens mount with 12.5mm back flange. The back flange is the distance between the lens mounting surface and the CCD chip. Cameras with CS-mount need a special adapter ring to be used with C-mounted lenses (supplied with every camera).

DC

Direct current

Decibels

Is a logarithmic ratio used to compare characteristics of electrical signals.

De-multiplexing

Is the process of separating the different video, audio or data channels which were multiplexed at the source.

Depth of Field

Is the distance between the nearest and furthest points of the scene which appear in sharp focus. It is dictated by the F-stop and focal length of the lens.

Dielectric

Is a material which insulates the solid centre core of a coaxial cable from the screen. The thickness of the dielectric affects the impedance of the cable.

Dome

Is a type of camera kit, inside a housing made of smoked or tinted plastic. It is excellent for discreet surveillance and is supplied with inbuilt pan tilt heads and zoom lens mechanisms.

DSP Chip Digital Signal Processing Chip

Is a solid state device which converts an analogue video signal into a digital video signal. It is used in digital cameras and also in computers to digitise video images.

Duplex

Is a system which can handle simultaneously two channels of video, audio or data signals.

Dwell Time

Is a feature in a switcher. It is the time period a picture from a given camera remains on the monitor before being replaced by a picture from the next camera. Switchers may have fixed or programmable dwell times.

EASS Electronic Surveillance System

It is used in retail shops to electronically tag the article merchandise to prevent shop thefts. A CCTV system can be interfaced with an EASS system so that the appropriate camera is switched on when an offence occurs.

EIA

Is a scanning method specified by the Electrical Industry Association. RS-170 is the standard for monochrome and RS-170A is the standard for colour.

Electrical Filter

Is a type of electrical circuitry designed to limit transmission of certain frequencies.

Electron Beam

Is a concentrated flow of electrons in a nominated direction.

Electronic Shutter Speed

See Shutter Speed.

Shutter Speed

Is the speed at which the charge is read out from the CCD chip. The factory setting is 1/50 sec (PAL) or 1/60 sec (NTSC) and can be increased up to 1/100,000 sec depending upon the camera brand. It can be changed by using dip switches or in some cases by the inbuilt menu in the camera.

EMI Electro Magnetic Interference

Is interference which is usually caused by any electrical equipment radiating electro magnetic frequencies.

Ergonomics

Is the study of man, machine and the environment to achieve maximum efficiency.

Event Recorder

Is a type of recorder that is normally maintained in pause mode and starts recording only when activated by an alarm.

Extruded Aluminium

Is aluminium processed through a die and shaped for use to construct housings for CCTV applications.

Extruded Plastic

Is a process in which smoked or tinted plastic is processed and shaped to construct dome housings.

F-stop

Is the ratio between the focal length of the lens and the effective diameter of the iris opening. It indicates the light gathering ability of the lens.

Fence Protection System

Is a type of sensor installed on or around the perimeter fence in a site to detect any intrusion. There are many types of fence protection systems available. In CCTV it can be interfaced with a switcher or similar piece of equipment to switch a nominated camera for extended viewing.

Fibre Optics

Is a method of modulating video, audio or data with a light beam and transmitting it along a glass core.

Field

Is one half of a frame and consists of 312.5 (PAL) and 262.5 (NTSC) lines. Odd and even fields are combined to form a single frame.

Field of View

Is the height and width of the view that can be seen through a lens.

Fixed Lens

Is a lens with a fixed focal length. A wide range of fixed lens are available to suit different applications eg 2.6mm, 4.8mm, 8mm, 16mm, 25mm and 75mm etc.

Flexible Conduit

Is a flexible PVC conduit which is used at the camera point to enclose loose cables between the camera and the junction box or wall.

Fluorescent Lamp

Is a type of artificial light source in which the mercury vapour generated by a low wattage arc strikes the phosphor material to emit light. It is popular in indoor applications.

Fly Back Period

Is the time taken to move from the end of a field, frame or line to the start of the next field, frame or line. It is also called the retrace period.

Focal Length

Is the distance between the optical centre of a lens and the point of focus. It is usually measured in mm.

Focus Ring

Is a ring on a lens which is rotated to obtain correct focus.

Frame Interline Chip

Is a type of CCD chip which is expensive to manufacture and is currently used in broadcasting video cameras. It overcomes many shortcomings of the existing CCD chips used in CCTV cameras.

Frame Switching

Is a process used in multiplexers or multi-recorders in which a frame is picked up from each camera in turn.

Frame Store

Is an electronic device used to capture and digitally store a video image. It can be an independent unit or inbuilt in other equipment like fast scan video transmitters or video motion detectors.

Frame Transfer Chip

Is a type of CCD chip in which the pixels have a dual role of sensing the light and transferring the charge. This causes picture smearing, a major shortcoming of this chip.

Frame

Is the basic unit of a moving picture. A frame contains 625 lines (PAL) or 525 lines (NTSC).

FSK

Frequency shift keying - Technology to transmit digital information over a telephone line. The information is translated into an audible signal.

Galvanometer

Is a type of auto iris lens in which the DC motor drive is contained in the camera rather than in the lens. This lens is cheaper but it cannot be used with cameras which do not have this inbuilt DC motor drive.

Gamma Correction

Is a correction built into the camera to adjust for the brightness characteristics of the monitor. The gamma value ranges from 0.45 to 1.0.

Geometric Distortion

Is an error which causes the reproduced picture to be geometrically different from the original picture.

Ground Loop Current

Is an AC current produced in a video cable when the two ends of the cable do not have the same ground potential.

Ground Loop Insulator

Is an isolation transformer which can eliminate ground loop currents by removing any direct connection between the inputs and outputs.

GUI Graphical User Interface

Interfaces the computer with the matrix switcher. Hot areas on the computer screen can be programmed to activate a matrix switcher, VCR etc. It helps in making the CCTV system more user friendly.

Halogen Lamp

Is a type of incandescent lamp with a good spectral response. It is used in flood lighting of sports stadiums.

Hertz

Is a unit of measuring frequency. 1 Hertz = 1 cycle per second.

Horizontal Resolution

Is the number of vertical lines which can be resolved in a picture. It depends upon the number of pixels in a chip.

Horizontal Shift Register

Is a part of the CCD chip to which the charge from the pixels is transferred line by line. This charge is then converted into an analogue video signal.

Illuminance

Is the amount of luminous flux falling on a surface area and is measured in lux.

Image Intensified Camera

Is a type of camera coupled with an image intensified tube which generates additional photons. This tube allows the camera to be used in low light areas.

Image Intensifier

Is a device which intensifies light by using light sensitive phosphor screens. It is used to improve camera performance under low light conditions.

Impedance

Is the input and output characteristic of any electrical system and is measured in ohms. For maximum signal transfer, the input and output impedance should be the same. CCTV systems have a 75 ohm impedance.

Incandescent Light

Is a type of artificial light source invented by Thomas Edison in 1862. It has a good spectral response but low life and efficiency.

Index of Refraction

Is a ratio between the angle of incidence to the angle of refraction of light. It depends upon the density of a medium. A denser medium will have a higher index of refraction and will also bend the light more.



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Infrared Detector

Can be used in conjunction with a CCTV system to switch the relevant camera on to the monitor in event of an activation

Infrared Link

Transmission medium in which video, data or audio are modulated with infrared light and then transmitted via free space to a receiver in a remote location.

Infrared Radiation

Is electromagnetic radiation with a wavelength of more than 750 nanometers. It is not visible to the human eye.

Interference

Is external energy which interferes with an electrical signal causing picture distortions.

Interlacing

Is the process of combining even and odd fields to form a frame.

Interline Transfer Chip

Is a type of chip used in most of the current CCTV cameras as the charge read out method is more efficient than a frame transfer CCD chip. Vertical streaking and small pixel size are some of the shortcomings.

Iris

The part of a lens that can be adjusted to vary the amount of light passing through the lens and falling on the CCD chip.

Iris Plug

Push in connector which connects the camera to an auto iris lens to provide power to the iris motor and to send the video signal which controls the iris opening.

ISDN

Integrated Services Digital Network is a type of telephone network which is used to connect networks remotely.

Joystick Controller

Is a control device in the form of a stick in a PTZ controller used to control the pan, tilt and zoom movement of a pan tilt head or dome.

Junction box

Empty box (mostly weatherproof) to be mounted close to the electronic device. Simplifies cabling and may contain a twisted pair transmitter, PSU etc.

LAN

Local Area Network connects different computers so that they can communicate with each other. Different connection protocols are possible.

LD

Laser diode is a type of light source which generates a single frequency in the high end of the infrared spectrum and has a bandwidth of 1000 MHz. It is used in fibre optics and infrared links.

LED

Light Emitting Diode is a type of light source which generates an infrared frequency when stimulated by electricity. It is used in fibre optics, infrared links and as an infrared light source for monochrome cameras.

Lens Calculator

Is a calculator provided by many lens manufacturers to help calculate the focal length of the lens that will provide the required image.

Lens Hunting

Is a problem where the iris is continually opening and closing. Using the ALC adjustment in the lens, this should rectify the problem.

Lens Mount

See C-mount or CS-mount.

Light

Is electromagnetic radiation between 400 nm and 750 nm which is detectable by the human eye.

Light Sensor (photocell)

Is a device which is activated by a present amount of light falling on it. It can be used to switch infrared illuminators On/Off.

Limit Switch

Is a device placed inside or outside the Pan Tilt head and used to limit the angles of pan and tilt.

Line

Is the basic unit of a frame or field containing the charge which is proportional to the light falling at various points on the scanning line.

Looping Switcher

Is a type of switcher with looping outputs. These outputs allow the camera to be connected to another device without affecting the usage of the switcher.

Lumen

Is a measurement of light which indicates the amount of light radiated by a one candela light source.

Luminance Signal

Is that part of the video signal which contains the information on the brightness of the picture.

Lux

Is an international unit of illumination. It is the amount of uniform light falling on an area of 1 square metre and is measured in lumen per sq metre.

Magnification Ratio

Is the ratio between the focal length of a lens and the focal length of a standard angle lens. It indicates the magnification of the image on the monitor as compared to the image seen by a standard angle lens.

Matrix Switcher

Is a type of switcher which allows a single input to be switched to many outputs. Matrix switchers are used in large CCTV systems and have many powerful features.

Mercury Vapour Lamp

Is a popular type of artificial light source which emits a blue-white light. Used extensively for commercial lighting.

Microwave Links

Is a type of transmission medium in which video, data or audio is modulated with a microwave frequency and then transmitted to a receiver in a remote location over free space.

Mimic Panel

Is a panel which shows the layout of a site with the camera positions highlighted. By interfacing it with a CCTV system, the operator can switch any camera to the monitors from the mimic panel itself.

Minimum Scene Illumination

Is a specification shown in most camera data sheets and indicates the minimum light required at the scene to provide a reasonable picture on the monitor.

Modem

Is derived from the term 'modulator -demodulator' and is used to convert a digital signal into an analogue signal so that it can be transmitted via the PSTN telephone network.

Modulate

A method in which a signal to be transmitted is mixed with a high frequency carrier signal.

Motorised Controlled Iris

Is a type of iris control in which the iris motor is controlled from a remote location, usually in a zoom lens.

Multi Core Cable

Is a type of cable which has many cores enclosed in one outer jacket. In CCTV it is normally used to transmit control signals.



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Multimode Cable

Is a cheaper type of fibre optic cable which allows a light beam to travel by more than one path thus causing transmission distortion.

Multiplexing

Is a process whereby many cameras are switched frame by frame. This frame switching can be used in applications like multi-viewing, multi-recording etc.

Neutral Density Filter

Is a type of filter used with lenses which reduces light of all wavelengths equally.

Noise

Is an unwanted signal generated by every electronic component. The noise in a video signal causes a grainy or snowy effect on the image.

NTSC

National Television System Committee is a colour television system and the standard used in the USA and Japan. NTSC has 525 horizontal scanning lines and 60 fields per sec.

Ohms

Is a unit for measuring resistance or impedance of any electrical device.

Omni Directional Transmitter

Is a transmitter which sends the signal in all directions.

Optical Filter

Is a type of filter used in optics which selectively allows light of different frequencies to pass through.

Oscilloscope

Is a device which visually displays the wave form of any electrical signal on a screen. In CCTV, it is used in trouble shooting and making adjustments of various components.

PAL

Phase Alternating Line is a colour television system and the standard used in Western Europe, Australia, parts of Africa and Asia. PAL has 625 horizontal scanning lines and 50 fields per sec.

Persistence of Vision

The retina of the human eye retains an image for 40ms. This characteristic is called "persistence of vision" and is used to make a picture appear continuous by flashing images on the retina at a rate faster than 24 images per sec.

Phase Adjustment

Is a camera adjustment used to synchronise all the cameras in the system by altering the phase of the power supply.

Phase Angle

Is the angle at any point of the sine wave of an AC power supply and varies between 0 to 360 deg over a cycle.

Phosphor

Is a material which is capable of emitting light. It is used in fluorescent lamps, monitors etc. The duration of the emission depends on the type of phosphor.

Picture Tearing

Occurs when the horizontal sync pulses are distorted or lost and the monitor is unable to latch on to them causing the horizontal lines to be displaced in a random manner. This is seen as a tearing of the picture on the monitor.

Pincushion Distortion

Is a type of distortion caused due to non uniform scanning in the monitor which makes the picture to bulge inward.

Pinhole Lens

Is a lens with a small diameter used for covert surveillance.

Pixel

(picture element) is the basic unit of a CCD chip which accumulates charge depending upon the amount of light falling upon it. A typical CCD chip has over 300,000+ pixels.

Polarizing Filter

Is a type of filter which reduces glare by intercepting reflected light from surfaces like water, glass etc.

Polycarbonate

Is a type of toughened glass which can be used in housings for use in areas of high vandalism.

Polyethylene

Is a type of plastic used to make outer jackets for cables.

Potentiometer

Is an electronic component in which the resistance can be changed by a movable contact point. It is used in pan tilt heads and zoom lenses to record preset positions.

Power Line Interference

Is a type of interference caused by main power lines and usually seen as horizontal bands on the monitor.

Preamplifier

Is a type of amplifier used to increase the output of a low level source allowing the signal to be processed by other devices.

Preset

Is a term used in CCTV to define pre determined position of a pan and tilt head and zoom lens.

Primary Colour

Is a colour which cannot be obtained by mixing other colours. Red, green and blue are the three primary colours which can be mixed to produce other colours.

PSTN

Public Switched Telephone Network is an analogue telephone network currently in use all over the world.

PTZ Controller

Is a device used to control the movement of the pan tilt head and zoom lens from a remote location.

Quad

Is a device which used to display pictures from 4 cameras on a single monitor.

Read Out Time

Is the time taken to read the charge from the pixels in a CCD chip.

Real Time Video

Is a picture with more than 24 frames per sec and therefore looks continuous.

Receiver Driver

Placed at the camera point and connected by either a coaxial or twisted twisted pair cable. It is used to decode the incoming control signals for the Pan, Tilt and Zoom functions.

Reed Switch

An alarm is activated when the reed switch is opened or closed. It is widely used with doors, windows, roller shutters etc and can be used to activate equipment to bring the nominated camera up for extended viewing.

Regulated Power Supply

DC power supply in which the ripple factor is minimal.

Remote Head Camera

In this type of camera, the CCD chip is separated from the camera body by cable. It is used in applications where the amount of space available to fit the camera is limited.

Resolution

A measure of picture definition and clarity and is represented by the number of lines. Greater the number of lines, higher the resolution.



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RG-11

Coaxial cable with a thicker centre core and used for transmission of video signals up to 500m.

RG-59

Coaxial cable used for transmission of video signals up to 250m. It is probably the most popular cable used in CCTV.

Ripple Factor

Is the amplitude variation present in a DC power supply due to insufficient filtering. A large variation can damage a DC camera.

RS-232

Is a communication protocol used for communication between microprocessor based devices.

S-VHS

Super VHS is a type of video format in which the illuminance and chrominance signals are sent separately resulting in improved picture quality.

Salvo Switching

Is a feature in matrix switchers. On command from the matrix switcher or an alarm event, a group of cameras can be switched simultaneously onto a group of monitors.

Screen

Is a copper braid which covers the dielectric and centre core of a coaxial cable.

SECAM

Sequential Couleur A'Memorie, a colour television system used in France and few other countries.

Sensitivity of a Camera

Is the minimum light level required at the CCD chip which will generate a usable video picture. It is measured in lux.

Sequential Switcher

A type of switcher that allows multiple cameras to be displayed or recorded in full screen one at a time.

Shield

Is a copper braid which covers the dielectric and centre core of a coaxial cable. It protects the video signal from EMI.

Signal Loss

Is a reduction in signal strength expressed in decibels.

Signal to Noise Ratio

It is the ratio between the signal voltage and the noise voltage generated by an electronic circuit. It is measured in decibels (db).

Simplex

A description of a system which can handle only one channel of video, audio or data signal. In CCTV the term is used for multiplexers, where only one function can be performed eg recording multiplexed images, but displaying only in full screen.

Single Mode Cable

An expensive type of fibre optic cable with a narrow glass core which allows only a single path for signal transmission.

Silicon Wafer

Is a semiconductor material on which the CCD chips are etched.

Snow

Appears as small dots on the monitor and is caused by noise in the video signal.

Sodium Vapour Lamp

Is an artificial light source which is very efficient and uses sodium vapour to produce a yellow-orange light.

Spectral Response

Is the sensitivity of a device to different light frequencies.

Standard Angle Lens

This type of lens which provides a view which has the same proportions as seen by the human eye. It has a magnification ration of 1.

Step Down Transformer

This transformer is used in power supplies to step down or lower the main line voltage. The ratio between the number of turns of the primary coil to the secondary coil determines the step down voltage.

Stranded Cable

A type of cable in which a number of wires enclosed in an outer jacket are used to transmit the electrical signal.

Sunshield

A movable accessory placed on top of outdoor housings to prevent direct light falling on the camera.

Sync Generator

Is a device which generates sync pulses which are then used to synchronise cameras.

Synchronisation

A process which ensures that the formation of frames in a multi camera system start at the same time. There are different ways to achieve camera synchronisation.

Synchronous data transmission

Stands for a transmission technique that uses a control line to transmit control bits for correct transmission.

Telephoto Lens

This type of lens can be used to view far away objects. It has a magnification ration >1 .

Terminal Strip

Screw connection for interconnecting cables, various current ratings.

Test Pattern Generator

A device which generates a test pattern to be used to adjust and test a CCTV monitor.

Thermal Paper

Is a special type of paper used in video printers.

Time Based Switching

Is a feature in matrix switchers which allows various programmed camera sequences to be initiated at various times.

Time Lapse VCR

A type of video cassette recorder especially designed for CCTV. It allows more recording time on a single video tape by not recording all the frames.

Time/Date Generator

A device which generates time and date and superimposes it on the video signal.

Touch Screen

Is a type of modern monitor screen. Action can be initiated by touching the relevant point on the monitor screen. Sometimes referred to as a GUI (Graphical User Interface).

Trapezoidal Distortion

Is a type of distortion in the monitor caused due to non uniform scanning which makes the scanning lines look wider at the top than at the bottom of the monitor.

Triaxial Cable

Is a type of coaxial cable which has two layers of shield to provide better protection against EMI.

Twisted Pair Cable

Is a type of balanced cable in which a pair of cables are twisted and the signal is divided between them.

Two Speed Recorder

Is a domestic VCR which has two speeds of recording/playback, standard and long play. The long play mode doubles the recording time of a standard tape.

Ultraviolet

Is electromagnetic radiation with a wavelength of less than 400 nm and is not visible to the human eye.

Unbalanced Cable

Is a type of cable in which the ends of the shields are grounded to different equipment with possibly varying ground potential. This unbalanced set up can give rise to ground loop currents and EMI induction.

UPS

Uninterruptible Power Supply stores electricity and supplies power to a CCTV system during a power failure.

Usable Video

Is the minimum video signal specified in the camera data sheet to generate an acceptable picture on the monitor. It is usually measured as a percentage of the full video.

Varifocal Lens

Is a type of manual zoom lens with a small zoom ratio (ranging between 3.5mm to 70mm depending on brand). It is used when the focal length of the lens needs to be fine tuned to meet the requirements of the actual scene.

Video Head

An internal part of a VCR which rotates very rapidly and writes the video signal on to the video tape during recording while reading the video signal from the tape during playback.

Vertical Resolution

Is the number of horizontal lines which can be resolved in a picture. It is limited by the television scanning method - NTSC, PAL etc.

Vertical Shift Register

Is a part of the interline transfer of a CCD chip, it is placed in between every column of the pixels. At the end of each frame the charge from the pixels are sent to the vertical shift register (VSR) and then row by row to the horizontal shift register.

Vertical Streaking

This type of picture distortion occurs due to overloading of the pixels in an interline transfer chip. It appears as vertical streaks above and below the bright part of the picture.

VHS

Video Home System is a type of popular recording format used in video cassette recorders.

Video Amplifier

Is used to boost the strength of a video signal.

Video Cassette Recorder

Is a device which can record (or playback) video and audio signals on a magnetic tape housed in a cassette.

Video Distribution Amplifier

The video distribution amplifier is used not only to boost the strength but also create multiple outputs of the video input signal.

Video Intercom

Is a door entry system which uses both audio and video to communicate and/or control movement of people.

Video Monitoring

Is an application which uses video to monitor remote sites in any part of the world. The video images are transmitted through the telephone network.

Video Motion Detection

Is a means which can detect change in the pixelation or movement in the picture and then generate an alarm.

Wattage

Is a unit of power measured in watts (W).

Wave Length

Is the distance travelled by an electro magnetic wave during one cycle.

Wide Angle Lens

A type of lens which gives a wide view of the scene and has a magnification ratio of less than 1.

Wide Dynamic Range

A camera with wide dynamic range is able to improve the image quality. It corrects too bright and too dark areas of the scene.

Zoom Lens

A type of lens with a variable focal length ranging from wide angle to telephoto.

Zoom Ratio

Is the ratio between the maximum and minimum focal length of a zooms lens.



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