CCTV

Products & Accessories Catalogue 2008

Building Technologies

SIEMENS

Siemens: one brand, one partner – one system ...for all your security & fire safety requirements

Access Control · CCTV · Fire Safety · Intruder Detection

Every day small sized applications or "standalone" operation – small convenience store or petrol station shop

CCTV products for this example:

Monofocal fixed domes, to surveil the shop

High resolution DIP switch colour camera monitoring customers paying and forecourt

15" high resolution public display monitor

SISTORE AX4 Lite, 4 camera digital recorder, operating in a standalone mode

Medium sized applications with local area networking (LAN) – large supermarket with warehouse

CCTV products for this example:

Speed domes, to surveil all the aisles

High resolution IP cameras monitoring "sale items" on end of aisles for Marketing purposes

CKA keyboard to control speed domes & SISTORE AX

17" TFT display monitor

SISTORE AX16, 16 camera digital recorder, with LAN connection to head office

SISTORE CX, digital video codec for IP transmission & recording of warehouse cameras

High risk applications with wide area networking (WAN) – commercial bank

CCTV products for this example:

Vandal resistant domes monitoring public floor areas for the highest protection

High resolution colour cameras monitoring customers being served

High resolution wide dynamic cameras monitoring customers entering through glass doors to the bank

19" TFT display monitor

SISTORE MX hybrid recorder, with WAN connection to security office

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Attractive, powerful cameras for any area of application...

Only a camera optimally adjusted to prevailing light conditions can deliver clear, crisp images. Siemens has met this challenge at the highest level and created a range of cameras and fixed domes to cover all customer needs. The cameras have been designed to meet every application, for indoor and outdoor, from simple monochrome cameras to high-performance colour cameras, as well as specialised Wide Dynamic day-night cameras. Cameras by Siemens can be used for monitoring in public areas, for traffic monitoring, in tunnels, casinos, train stations, airports and many other applications. With their uniformly attractive design, the cameras offer the sharpest image in any environment.

- Cameras for all applications
- Complete range of fixed domes
- Models include 1/4”, 1/3” and 1/2” cameras
- Remote software setup available on selected models
- Day-night, colour and monochrome models

Cameras Overview

	CCBS1225	CCBC1225	CCBB1225	CCWC1335	CCBS1337
	Day-Night Wide Dynamic	Colour Wide Dynamic	Monochrome Wide Dynamic	Day-Night Wide Dynamic	Day-Night
Image sensor	1/2″ CCD	1/2″ CCD	1/2″ CCD	1/3″ CCD	1/3″ CCD
TV lines	480	480	580	480	540
Resolution	High resolution	High resolution	High resolution	High resolution	Super high resolution
CMOS Pixim® Technology					
TV standard	PAL	PAL	CCIR	PAL or NTSC*	PAL or NTSC*
Power supply 12 V DC / 24 V AC dual 110 ~ 240 V AC	■	■	■	■ ■	■ ■
Min. illumination (@ 50 IRE)	0.045 Lux (colour) 0.008 Lux (mono) (@ F1.2)	0.11 Lux (colour) (@ F1.2)	0.0037 Lux (@ F1.2)	0.4 Lux (colour) 0.08 Lux (mono) (@ F1.4)	0.4 Lux (colour) 0.08 Lux (mono) (@ F1.4)
Slow shutter	■	■	■	■	
Programmable shutter speed	■	■	■	■	■
S/N ratio	> 50 dB	> 50 dB	> 50 dB	> 50 dB	> 50 dB
Dynamic noise reduction (DNR)					■
Automatic gain control (AGC)	Auto or manually adjustable max. 39 dB	Auto or manually adjustable max. 39 dB	Auto or manually adjustable max. 39 dB	OFF, Normal, Turbo, max. 30 dB	OFF, Normal, Turbo, max. 30 dB
On-screen display menu	■	■	■	■	■
Camera title overlay	24 characters	24 characters	24 characters	16 characters	16 characters
Colour / Monochrome switchable	■			■	■
Infrared cut filter	■			■	■
Peak-white inversion	■	■	■		
Automatic white balance	■	■		■	■
Back-light compensation	49 zones (7 x 7)	49 zones (7 x 7)	49 zones (7 x 7)	6 zones	6 zones
Wide Dynamic	■	■	■	■	
Quick-connect	■	■	■	■	■
Cable management	■	■	■	■	■
One screw easy back focus	■	■	■	■	■
Line-lock synchronisation	■	■	■	■	■
Digital picture storage in camera	4 images	4 images	4 images		
Privacy zones				8	8
RS485 remote programming	■	■	■	■	■
Interface with ID	■	■	■	■	■
Alarm input / output	■	■	■	■	■
S-VHS Y/C output	■	■	■	■	■
Twisted pair video output					
Activity detection (motion)					

*Model available on request.

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CCBC1337	CCBC1325	CCWC1345	CCBS1345	CCBC1345	CCBB1345
Colour	Colour	Colour Wide Dynamic	Day-Night	Colour	Monochrome
1/3″ CCD	1/3″ CCD	1/3″ CMOS	1/3″ CCD	1/3″ CCD	1/3″ CCD
540	480	500	480	480	580
Super high resolution	High resolution	High resolution	High resolution	High resolution	High resolution
		■			
PAL or NTSC*	PAL or NTSC*	PAL and NTSC*	PAL or NTSC*	PAL or NTSC*	CCIR or EIA*
■ ■	■ ■	■ ■	■ ■	■ ■	■ ■
0.5 Lux (colour) (@ F1.4)	0.6 Lux (@ F1.2)	0.5 Lux (@ F1.4)	0.3 Lux (colour) 0.08 Lux (mono) (@ F1.4)	0.6 Lux (@ F1.2)	0.15 Lux (@ F1.2)
		■			
	■	■			
> 50 dB	> 50 dB	> 50 dB	> 50 dB	> 50 dB	> 50 dB
		■			
ON / OFF max. 30 dB	OFF / 12 dB / 18 dB 24 dB / 30 dB / 38 dB	OFF / 6 dB / 12 dB 18 dB / 24 dB / 30 dB	ON / OFF max. 30 dB	ON / OFF max. 38 dB	ON / OFF max. 38 dB
	■	■			
	16 characters	24 characters			
	■	■	■		
			■		
■	■	■	■	■	
6 zones	6 zones	6 zones	1 zone	1 zone	1 zone
		■			
■	■	■	■	■	■
■	■	■	■	■	■
■	■	■	■	■	■
■	■	■	■	■	■
		1			
		■			
		■			
		■	1 x input		
■		■			
		■	■		
		■			

*Model available on request.

Type		Order No.
CCBB1225-LC	**1/2" DSP Monochrome Wide Dynamic OSD Camera 580 TVL, CCIR, 12 V DC / 24 V AC**	**2GF1081-8EA**

High resolution 1/2" monochrome camera including all features of the newest camera and chip technology with improved infrared sensitivity. Advanced features include 49-zone programmable back-light compensation, wide dynamic, peak-white inversion 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 remotely accessible. Supplied with operation and parameterisation software.

Television standard	CCIR: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	752 (H) x 582 (V)
Synchronisation	Internal: crystal External: line-lock, video - or HD/VD
Horizontal resolution	580 TV lines
Minimum illumination	0.0037 Lux (F1.2, AGC 39 dB) at 50 IRE
S/N ratio	> 50 dB
Dynamic range	60 dB
Gain control	Selectable (ON/OFF), gain (up to 36 dB)
Electronic shutter	Automatic: 1/50 s - 1/100000 s Fixed: 8 s - 1/30000 s Off: 1/50 s
Infrared sensitive	Up to 880 nm
Back-light compensation	Selectable (ON/OFF); up to 49 windows
Camera titles	24 characters
Lens mount	CS (C-mount adapter supplied)
Auto-iris lens control	Direct drive or Video drive
Dimensions (W x H x D)	74 x 60 x 125 mm
Power requirements	12 V DC / 24 V AC, 50 Hz
Power consumption	5 W
Weight	0.40 kg

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Type		Order No.
CCBB1345..	**1/3" DSP Monochrome DIP Switch Camera 580 TVL**	**2GF1081-8EA**

CCBB1345 is a high resolution monchrome 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. Setup is via DIP switches.

Television standard	CCIR: 625 lines, 50 fields/s, 50 Hz (vertically), 15.625 Hz (horizontally)
Synchronisation	Internal: crystal External: line-lock
Pixels	752 (H) x 582 (V)
Horizontal resolution	580 TV lines
Minimum illumination	0.15 Lux (F1.2, AGC 38 dB) at 50 IRE
S/N ratio	> 50 dB
Gain control	Max. 38 dB
Infrared sensitive	Up to 880 nm
Back-light compensation	Selectable (ON/OFF)
Lens mount	CS (C-mount adapter supplied)
Auto-iris lens control	Direct drive or Video drive
Electronic shutter	Automatic: 1/50 s - 1/100000 s Off: 1/50 s
Dimensions (W x H x D)	72 x 63 x 122 mm
Power consumption	3 W
Weight	0.45 kg

CCBB1345-LC	**1/3" DSP Monochrome DIP Switch Camera 580 TVL, CCIR, 12 V DC / 24 V AC**	**2GF1083-8GA**

As CCBB1345.. for technical details, but with the following differences:

Power requirements	12 V DC / 24 V AC, 50 Hz
Weight	0.45 kg

CCBB1345-MC	**1/3" DSP Monochrome DIP Switch Camera 580 TVL, CCIR, 90 – 260 V AC**	**2GF1083-8GA**

As CCBB1345.. for technical details, but with the following differences:

Power requirements	90 V AC – 260 V AC, 50 Hz
Weight	0.55 kg

CCBB1345-LE	**1/3" DSP Monochrome DIP Switch Camera 580 TVL, EIA, 12 V DC / 24 V AC**	**2GF1083-8GC**

As CCBB1345.. for technical details, but with the following differences:

Television standard	EIA: 525 lines, 60 fields, 60 Hz (vertically), 15.734 Hz (horizontally)
Pixels	768 (H) x 494 (V)
Electronic shutter	Automatic: 1/60 s - 1/100000 s Off: 1/60 s
Power requirements	12 V DC / 24 V AC, 60 Hz
Weight	0.45 kg

Type		Order No.
CCBC1225-LP	**1/2" DSP Colour Wide Dynamic OSD Camera 480 TVL, PAL, 12 V DC / 24 V AC**	**2GF1181-8EA**

High resolution 1/2" colour camera with advanced features including 49-zone programmable back-light compensation, wide dynamic, peak-white inversion 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 remotely accessible. Supplied with operation and parameterisation software.

Television standard	PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	752 (H) x 582 (V)
Synchronisation	Internal: crystal External: line-lock, video - or HD/VD
Horizontal resolution	480 TV lines
Minimum illumination	0.11 Lux (F1.2, AGC 39 dB) at 50 IRE
S/N ratio	> 50 dB
Dynamic range	60 dB
Gain control	Selectable (ON/OFF), gain (up to 36 dB)
Electronic shutter	Automatic: 1/50 s - 1/100000 s Fixed: 8 s - 1/30000 s Off: 1/50 s
Back-light compensation	Selectable (ON/OFF), up to 49 windows
Camera titles	24 characters
Lens mount	CS (C-mount adapter supplied)
Auto-iris lens control	Direct drive or Video drive
Dimensions (W x H x D)	74 x 60 x 125 mm
Power requirements	12 V DC / 24 V AC, 50 Hz
Power consumption	5 W
Weight	0.45 kg

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Type		Order No.
CCBC1320..	**1/3" DSP Colour OSD Camera 330 TVL**	**CCBC1320..**

CCBC1320 is a cost effective standard resolution 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.

Television standard	PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Synchronisation	Internal: crystal External: Line-lock
Pixels	500 (H) x 582 (V)
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 levels selectable: OFF / 12 dB / 18 dB / 24 dB / 30 dB / 38 dB (sens-up)
White balance control	Auto, 2500~9500° K, 2000~18,000° K
Back-light compensation	6 zones selectable
Camera titles	16 characters
Lens mount	CS (C-mount adapter supplied)
Auto-iris lens control	Direct drive or Video drive
Electronic shutter	Manual: 1 of 8 steps 1/50 to 1/10,000 s, Auto: AES 1/50 to 1/100,000 s
Dimensions (W x H x D)	70 x 58 x 117
Power consumption	3.8 W

CCBC1320-LP	**1/3" DSP Colour OSD Camera 330 TVL, PAL, 12 V DC / 24 V AC**	**2GF1183-8AA**

As CCBC1320.. for technical details, but with the following differences:

Power requirements	12 V DC / 24 V AC, 50 Hz
Weight	0.60 kg

CCBC1320-MP	**1/3" DSP Colour OSD Camera 330 TVL, PAL, 90 V AC – 260 V AC**	**2GF1183-8CA**

As CCBC1320.. for technical details, but with the following differences:

Power requirements	90 V AC – 260 V AC, 50 Hz
Weight	0.70 kg

Type		Order No.
CCBC1320-LN	**1/3" DSP Colour OSD Camera 330 TVL, NTSC, 12 V DC / 24 V AC** As CCBC1320.. for technical details, but with the following differences: Television standard: NTSC: 525 lines, 60 fields, 60 Hz (vertically), 15.734 Hz (horizontally) Pixels: 510 (H) x 492 (V) Electronic shutter: Manual: 1 of 8 steps 1/60 to 1/10,000 s, Auto: AES 1/60 to 1/100,000 s Power requirements: 12 V DC / 24 V AC, 60 Hz Weight: 0.41 kg	**2GF1183-8AB**
CCBC1325.. 	**1/3" DSP Colour OSD Camera 480 TVL** CCBC1325 is a full-featured high resolution 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. Television standard: PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally) Synchronisation: Internal: crystal External: Line-lock 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 levels selectable: OFF / 12 dB / 18 dB / 24 dB / 30 dB / 38 dB (sens-up) White balance control: Auto, 2500~9500° K, 2000~18,000° K Back-light compensation: 6 zones selectable Camera titles: 16 characters Lens mount: CS (C-mount adapter supplied) Auto-iris lens control: Direct drive or Video drive Electronic shutter: Manual: 1 of 8 steps 1/50 to 1/10,000 s, Auto: AES 1/50 to 1/100,000 s Dimensions (W x H x D): 70 x 58 x 117 mm Power consumption: 3.8 W	**CCBC1325..**
CCBC1325-LP	**1/3" DSP Colour OSD Camera 480 TVL, PAL, 12 V DC / 24 V AC** As CCBC1325.. for technical details, but with the following differences: Power requirements: 12 V DC / 24 V AC, 50 Hz Weight: 0.60 kg	**2GF1183-8BA**
CCBC1325-MP	**1/3" DSP Colour OSD Camera 480 TVL, PAL, 90 V AC – 260 V AC** As CCBC1325.. for technical details, but with the following differences: Power requirements: 90 V AC – 260 V AC, 50 Hz Weight: 0.70 kg	**2GF1183-8DA**

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Type		Order No.
CCBC1325-LN	**1/3" DSP Colour OSD Camera 480 TVL, NTSC, 12 V DC / 24 V AC** As CCBC1325.. for technical details, but with the following differences: Television standard: NTSC: 525 lines, 60 fields, 60 Hz (vertically), 15.734 Hz (horizontally) Pixels: 768 (H) x 492 (V) Electronic shutter: Manual: 1 of 8 steps 1/60 to 1/10,000 s, Auto: AES 1/60 to 1/100,000 s Power requirements: 12 V DC / 24 V AC, 60 Hz Weight: 0.41 kg	**2GF1183-8BB**
CCBC1337..	**1/3" DSP Colour DIP Switch Camera 540 TVL** CCBC1337 is a super high resolution colour camera using the latest CCD technology and advanced digital signal processing techniques to provide crisp, aperture corrected images for surveillance applications requiring the highest resolution images. All camera adjustments are performed via easy-to-use DIP switches located behind a discrete side panel. Television standard: PAL: 625 lines, 50 fields/s, 50 Hz (vertically), 15.625 Hz (horizontally) Synchronisation: Internal: crystal External: Line-lock Pixels: 752 (H) x 582 (V) Horizontal resolution: 540 TV lines Minimum illumination: 0.5 Lux (F1.4, AGC 30 dB) at 50 IRE S/N ratio: > 50 dB Gain control: normal / 30 dB (TURBO) White balance control: Auto Back-light compensation: 6 windows selectable: center 1, center 2, up half, low half, door low, door high Lens mount: CS (C-mount adapter supplied) Auto-iris lens control: Direct drive or Video drive Electronic shutter: Automatic: 1/50 s - 1/100000 s Off: 1/50 s Dimensions (W x H x D): 72 x 63 x 122 mm	**CCBC1337..**
CCBC1337-LP	**1/3" DSP Colour DIP Switch Camera 540 TVL, PAL, 12 V DC / 24 V AC** As CCBC1337.. for technical details, but with the following differences: Power requirements: 12 V DC / 24 V AC, 50 Hz Power consumption: 3.5 W Weight: 0.45 kg	**2GF1183-8EC**
CCBC1337-MP	**1/3" DSP Colour DIP Switch Camera 540 TVL, PAL, 90 V AC – 260 V AC** As CCBC1337.. for technical details, but with the following differences: Power requirements: 90 V AC – 260 V AC, 50 Hz Power consumption: 4.5 W Weight: 0.55 kg	**2GF1183-8EB**

Colour Cameras

Type		Order No.
CCBC1345..	**1/3" DSP Colour DIP Switch Camera 480 TVL**	**CCBC1345..**

CCBC1345 is a high resolution 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. Setup is via DIP switches.

Television standard	PAL: 625 lines, 50 fields/s, 50 Hz (vertically), 15.625 Hz (horizontally)
Synchronisation	Internal: crystal External: Line-lock
Pixels	752 (H) x 582 (V)
Horizontal resolution	480 TV lines
Minimum illumination	0.6 Lux (F1.2, AGC 38 dB) at 50 IRE
S/N ratio	> 50 dB
Gain control	Max 38 dB
White balance control	Auto
Back-light compensation	Selectable (ON/OFF)
Lens mount	CS (C-mount adapter supplied)
Auto-iris lens control	Direct drive or Video drive
Electronic shutter	Automatic: 1/50 s - 1/100000 s Off: 1/50 s
Dimensions (W x H x D)	72 x 63 x 122 mm
Power consumption	4 W

CCBC1345-LP	**1/3" DSP Colour DIP Switch Camera 480 TVL, PAL, 12 V DC / 24 V AC**	**2GF1183-8GA**

As CCBC1345.. for technical details, but with the following differences:

Power requirements	12 V DC / 24 V AC, 50 Hz
Weight	0.45 kg

CCBC1345-MP	**1/3" DSP Colour DIP Switch Camera 480 TVL, PAL, 90 V AC – 260 V AC**	**2GF1183-8GB**

As CCBC1345.. for technical details, but with the following differences:

Power requirements	90 V AC / 24 V AC, 50 Hz
Weight	0.55 kg

CCBC1345-LN	**1/3" DSP Colour DIP Switch Camera 480 TVL, NTSC, 12 V DC / 24 V AC**	**2GF1183-8GC**

As CCBC1345.. for technical details, but with the following differences:

Television standard	NTSC: 525 lines, 60 fields, 60 Hz (vertically), 15,734 Hz (horizontally)
Pixels	768 (H) x 494 (V)
Electronic shutter	Automatic: 1/60 s - 1/100000 s Off: 1/60 s
Power requirements	12 V DC / 24 V AC, 60 Hz
Weight	0.45 kg

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Type		Order No.
CCWC1345..	**1/3" CMOS PIXIM Ultra Wide Dynamic Colour OSD Camera**	**CCWC1345..**

CCWC1345 is a 500 TVL high resolution colour camera using the latest CMOS Image sensor and 32 Bit DPS (Digital Pixel System, PIXIM D2500) techniques to provide crisp, aperture corrected images for surveillance applications requiring detailed images even under extreme or difficult illumination conditions.

Television standard	PAL: 2:1 interlace V: 50 Hz, H: 15.625 Hz NTSC: 2:1 interlace V: 59.94 Hz, H: 15.734 Hz
Image sensor	1/3" CMOS, PIXIM* D2500, 720 x 540 active pixels
Synchronisation	Internal/line lock selectable (AC only)
Horizontal resolution	> 500 TV lines (horizontal) @ Y/C TV lines
Minimum illumination	0.5 lux @F=1.4 (AGC 30 dB, 50 IRE video output)
S/N ratio	> 50 dB
Dynamic range	120 dB
Gain control	Selectable 0, 6, 12, 18, 24 up to 30 dB
White balance control	AUTO: range depending on preset mode. Manual: 40 steps by push button for R and B
Back-light compensation	6 areas selectable
Operating temperature range	-10° C to +55° C
Dimensions (W x H x D)	72 x 63 x 122 mm

CCWC1345-LX	**1/3" CMOS PIXIM Ultra Wide Dynamic OSD Colour Camera, 500 TVL, PAL/NTSC, 12 V DC / 24 V AC**	**2GF1183-8HA**

As CCWC1345.. for technical details, but with the following differences:

Power requirements	12 V DC / 24 V AC
Power consumption	4 W
Weight	0.55 kg

CCWC1345-MX	**1/3" CMOS PIXIM Ultra Wide Dynamic OSD Colour Camera, 500 TVL, PAL/NTSC, 90 – 260 V AC**	**2GF1183-8HB**

As CCWC1345.. for technical details, but with the following differences:

Power requirements	100 – 240 V AC ± 10%, 50/60 Hz
Power consumption	4.5 W
Weight	0.55 kg

Type		Order No.
CCAC1415-LPI	**1/4" CCD High Resolution Colour OSD Camera PAL, Indoor Use, 480 TVL, 22x Optical Zoom, Auto-focus, 12 V DC / 24 V AC**	**2GF1182-8AD**

The CCAC1415-LPI is a high resolution colour camera with built-in auto focus zoom lens with max. 242 x zoom. The camera is designed for indoor use under variable lighting conditions.

Television standard	PAL: 625 lines, 50 fields/s, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	795 (H) x 596 (V)
Image sensor	1/4" SONY Super HAD CCD
Synchronisation	Internal/external (line lock)
Horizontal resolution	480 TV lines
Minimum illumination	1.0 lux @ F=1.6 (AGC on, 30 IRE video output) / Slow-Shutter: 0.02 lux
Zoom	Optical zoom x22, digital zoom x11 (video AF)
Focal length	3.9 – 85.8 mm
Maximum relative aperture	F1.6 (wide) – F3.7 (tele)
Slow speed shutter	x2 – x60
S/N ratio	52 dB (AGC off)
Operating temperature range	-10° C to +50° C
Dimensions (W x H x D)	72 x 74 x 121.4 mm
Power consumption	6.5 W
Weight	0.40 kg

CCAC1415-LPO	**1/4" CCD High Resolution Colour OSD Camera PAL, Outdoor Use, 480 TVL, 22x Optical Zoom, Auto-focus, 12 V DC / 24 V AC**	**2GF1182-8AF**

The CCAC1415-LPO is a high resolution colour camera with built-in auto focus zoom lens with max. 242 x zoom. The camera is designed for outdoor use under variable lighting conditions.

Television standard	PAL: 625 lines, 50 fields/s, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	795 (H) x 596 (V)
Image sensor	1/4" SONY Super HAD CCD
Synchronisation	Internal/external (line lock)
Horizontal resolution	480 TV lines
Minimum illumination	1.0 lux @ F=1.6 (AGC on, 30 IRE video output) / Slow-Shutter: 0.02 lux
Zoom	Optical zoom x22, digital zoom x11 (video AF)
Focal length	3.9 – 85.8 mm
Maximum relative aperture	F1.6 (wide) – F3.7 (tele)
Slow speed shutter	x2 – x60
S/N ratio	52 dB (AGC off)
Operating temperature range	-10° C to +50° C
Power consumption	6.5 W
Dimensions (W x H x D)	120 x 120 x 185 mm
Weight	1.50 kg

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Camera features...

Slow / fast shutter speed

SHUTTER	1/50
BLC	ON
SYNC	INT
LEVEL	IRIS LEVEL
CONFIGURE	
CAM TITLE	TITLE
WHITE BAL	ATW/MTW/SET

EXIT CANCEL DEFAULT

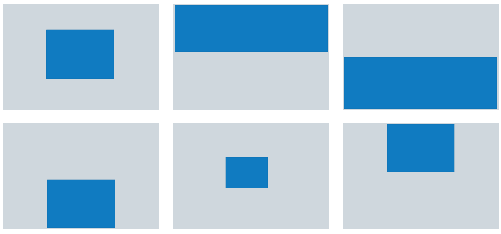
On-screen display menu

Too bright

Too dark

Perfect view with
Wide Dynamic On

One screw easy back focus adjustment



Menu allows programming of six different modes of back-light compensation

Lens cable tray included top and bottom

...for all applications.

Type		Order No.
CCBS1225-LP	**1/2" DSP Day-Night Wide Dynamic OSD Camera 480 TVL, PAL, 12 V DC / 24 V AC**	**2GF1118-8EA**

High resolution day-night camera with mechanical infrared cut filter, providing crisp aperture corrected and low-smear images 24 hours a day. In night mode the camera is infrared sensitive and can be used with infrared illumination. In night mode the camera is infrared sensitive and can be used with infrared illumination. Advanced features include 49-zone programmable back-light compensation, wide dynamic, peak-white inversion 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 remotely accessible. Supplied with operation and parameterisation software.

Television standard	PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	752 (H) x 582 (V)
Synchronisation	Internal: crystal External: line-lock, video - or HD/VD
Horizontal resolution	480 TV lines
Minimum illumination	Colour mode: 0.045 Lux (F1.2, AGC 39 dB) at 50 IRE Mono: 0.008 Lux (F1.2, AGC 39 dB) at 50 IRE
S/N ratio	>50 dB
Dynamic range	60 dB
Gain control	Selectable (ON/OFF), gain (up to 36 dB)
White balance control	Manual / auto
Back-light compensation	Selectable (ON/OFF); up to 49 windows
Infrared sensitive	880 nm, monochrome mode
Camera titles	24 characters
Lens mount	CS (C-mount adapter supplied)
Auto-iris lens control	Direct drive or Video drive
Dimensions (W x H x D)	74 x 60 x 125 mm
Power requirements	12 V DC / 24 V AC, 50 Hz
Power consumption	5 W
Weight	0.45 kg

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Type		Order No.
CCBS1337..	**1/3" DSP Day-Night OSD Camera 540 TVL**	**CCBS1337..**

CCBS1337 is a super high resolution day-night camera using the latest CCD technology and advanced digital signal processing techniques to provide crisp, aperture corrected images for surveillance applications requiring the highest resolution images. This camera has a mechanical infrared cut filter, providing crisp aperture corrected and low-smear images 24 hours a day. In night mode the camera is infrared sensitive and can be used with infrared illumination.

Television standard	PAL: 625 lines, 50 fields/s, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	752 (H) x 582 (V)
Horizontal resolution	540 TV lines
Minimum illumination	Colour mode: 0.4 Lux (F1.4, AGC 30 dB) at 50 IRE Mono: 0.08 Lux (F1.4, AGC 30 dB) at 50 IRE
S/N ratio	> 50 dB
Gain control	Selectable (ON/TURBO/OFF), gain up to 30 dB
Electronic shutter	Automatic: 1/50 s - 1/100000 s Manual: 1/50 s ... 1 / 10000 s selectable Off: 1/50 s
White balance control	Manual / auto / one push
Back-light compensation	6 windows selectable: center 1, center 2, up half, low half, door low, door high
Camera titles	16 characters
Infrared sensitive	880 nm, monochrome mode
Lens mount	CS (C-mount adapter supplied)
Auto-iris lens control	Direct drive or Video drive
Gamma	0.45 / 1.0 selectable
Image sensor	1/3-inch interline CCD
Tripod thread	A(1/4), 1/4 inch on bottom and top
Dimensions (W x H x D)	72 x 63 x 122 mm
Power consumption	5 W, 8 W (incl. IR-cut filter movement)

CCBS1337-LP	**1/3" DSP Day-Night OSD Camera 540 TVL, PAL, 12 V DC / 24 V AC**	**2GF1118-8FA**

As CCBS1337.. for technical details, but with the following differences:

Power requirements	12 V DC / 24 V AC, 50 Hz
Weight	0.45 kg

CCBS1337-MP	**1/3" DSP Day-Night OSD Camera 540 TVL, PAL, 90 V AC – 260 V AC**	**2GF1118-8FB**

As CCBS1337.. for technical details, but with the following differences:

Power requirements	90 V AC – 260 V AC, 50 Hz
Weight	0.55 kg

Type		Order No.
CCWC1335..	**1/3" DSP Day-Night, Wide Dynamic OSD Camera 480 TVL**	**CCWC1335..**

CCWC1337 is a high resolution Wide Dynamic colour camera using the latest CCD technology and advanced digital signal processing techniques to provide crisp, aperture corrected images for surveillance applications requiring the highest resolution images. The use of wide dynamic technology ensures clear viewing in any bright back-lit scenes. This camera has a mechanical infrared cut filter, providing crisp aperture corrected, low-smear images 24 hours a day. In night mode the camera is infrared sensitive and should be used with infrared illumination.

Television standard	PAL: 625 lines, 50 fields/s, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	752 (H) x 582 (V)
Horizontal resolution	> 480 TV lines
Minimum illumination	Colour: 0.4 Lux (F1.4, AGC 30 dB) at 50 IRE Mono: 0.08 Lux (F1.4, AGC 30 dB) at 50 IRE
S/N ratio	> 50 dB
Dynamic range	60 dB
Gain control	Selectable (ON/TURBO/OFF), gain up to 30 dB
Electronic shutter	Automatic: between 1/50 and 1/100,000 sec Manual: 1/50s, 1/120, 1/250, 1/400, 1/1K, 1/2K, 1/5K, 1/10K
White balance control	Manual / auto / one push
Back-light compensation	6 windows selectable: center 1, center 2, up half, low half, door low, door high
Camera titles	16 characters
Infrared sensitive	880 nm, monochrome mode
Lens mount	CS (C-mount adapter supplied)
Auto-iris lens control	Direct drive or Video drive
Gamma	0.45 / 1.0 selectable
Image sensor	1/3-inch interline CCD
Tripod thread	A(1/4), 1/4 inch on bottom and top
Dimensions (W x H x D)	72 x 63 x 122 mm
Power consumption	5 W, 8 W (incl. IR-cut filter movement)

CCWC1335-LP	**1/3" DSP Day-Night, Wide Dynamic OSD Camera 480 TVL, 12 V DC / 24 V AC**	**2GF1183-8FC**

As CCWC1335.. for technical details, but with the following differences:

Power requirements	12 V DC / 24 V AC, 50 Hz
Weight	0.45 kg

CCWC1335-MP	**1/3" DSP Day-Night, Wide Dynamic OSD Camera 480 TVL, 90 V AC – 260 V AC**	**2GF1183-8FB**

As CCWC1335.. for technical details, but with the following differences:

Power requirements	90 V AC to 260 V AC, 50 Hz
Weight	0.55 kg

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Type		Order No.
CCBS1345..	**1/3" DSP High Resolution DIP Switch Day-Night Camera**	**CCBS1345..**

CCBS1345 is equipped with a mechanical IR filter that provides good picture quality 24 hours a day in colour and monochrome mode. The switch-over from colour to monochrome can be performed automatically depending on ambient light conditions (3 levels selectable) or by an external signal using the switch input of the camera.

Television standard	PAL: 625 lines, 50 fields/s, 50 Hz (vertically), 15.625 Hz (horizontally)
Horizontal resolution	480 TVL colour / 540 TVL Mono TV lines
Minimum illumination	Colour: 0.3 Lux @ F=1.4 (AGC 30 dB, 50IRE Video Output) Mono: 0.08 Lux @ F=1.4 (AGC 30 dB, 50IRE Video Output)
S/N ratio	> 50 dB
Electronic shutter	On: Automatic between 1/50 and 1/100,000 sec Off: 1/50 s
Back-light compensation	Selectable (ON/OFF)
Gamma	0.45
Image sensor	1/3-inch interline CCD, 752 x 582 active pixels
Tripod thread	A (1/4); 1/4 inch on bottom and top
Dimensions (W x H x D)	72 x 63 x 122 mm

CCBS1345-LP	**1/3" DSP High Resolution DIP Switch Day-Night Camera, 480 TVL, PAL, 12 V DC / 24 V AC, 50 Hz**	**2GF1118-8GA**

As CCBS1345.. for technical details, but with the following differences:

Power requirements	12 V DC / 24 V AC
Power consumption	4 W
Weight	0.45 kg

CCBS1345-MP	**1/3" DSP High Resolution DIP Switch Day-Night Camera, 480 TVL, PAL, 90 – 260 V AC, 50 Hz**	**2GF1118-8GB**

As CCBS1345.. for technical details, but with the following differences:

Power requirements	100 – 240 V AC ± 10%
Power consumption	4.5 W
Weight	0.55 kg

Type		Order No.
CCAS1415-LPO	**1/4" CCD High Resolution Day-Night OSD Camera PAL, Outdoor Use, 480 TVL, 22x Optical Zoom, Auto Focus, 12 V DC / 24 V AC**	**2GF1182-8AJ**

The CCAS1415-LPO is a high resolution (480/530 TVL) day-night camera with built-in auto focus zoom lens with max. 242 x zoom. The camera is designed for outdoor use under variable lighting conditions. It is built into a compact and attractively styled weatherproof housing with sunshade incorporated. As a result of the day-night function, the camera offers optimum picture quality both under varying daylight conditions and also when used at night with infrared light.

Television standard	PAL: 625 lines, 50 fields/s, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	795 (H) x 596 (V)
Image sensor	1/4" SONY Super HAD CCD
Synchronisation	Internal/external (Line Lock)
Horizontal resolution	480 TV lines
Minimum illumination	Colour: 0.5 lux @ F=1.6 (AGC on, 50 IRE video output) Mono: 0.5 lux Slow-Shutter: 0.001 lux
Zoom	Optical zoom x22, digital zoom x11 (video AF)
Focal length	3.9 – 85.8 mm
Maximum relative aperture	F1.6 (wide) – F3.7 (tele)
Slow speed shutter	x 2 – x 60
S/N ratio	52 dB (AGC off)
Operating temperature range	-10° C to +50° C
Dimensions (W x H x D)	120 x 120 x 185 mm
Power consumption	9 W
Weight	1.50 kg

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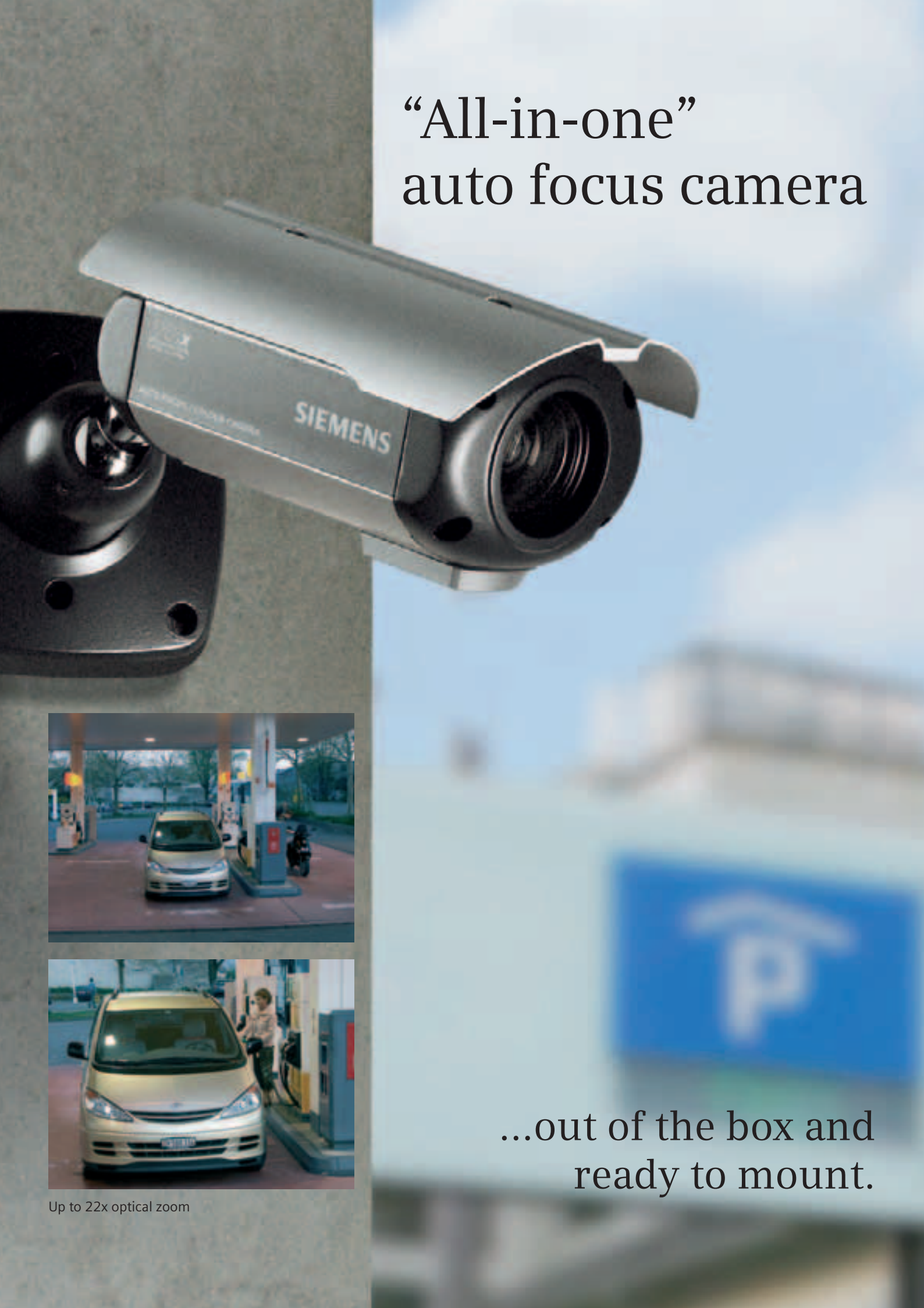
“All-in-one” auto focus camera



...out of the box and ready to mount.

Up to 22x optical zoom

Camera Mounts

Type		Order No.
CWCB140	**Universal Camera Mount 140 mm** Easily adjusted, universal camera mount suitable for wall or ceiling mounting of cameras Installation: Wall or ceiling Colour: Silver (RAL9006) Loading capacity: Approx. 2 kg Dimensions (dia. x l): 56 x 140 mm Weight: 0.12 kg	**2GF1710-8BC**
CWCB210	**Universal Camera Mount 210 mm** Easily adjusted, universal camera mount suitable for wall or ceiling mounting of cameras Installation: Wall or ceiling Colour: Grey (RAL7032) Loading capacity: Approx. 2 kg Dimensions (dia. x l): 54 x 210 mm Weight: 0.16 kg	**2GF1710-8AP**
CWCB210-310	**Universal Camera Mount 210-310 mm** Easily adjusted, universal camera mount suitable for wall or ceiling mounting of cameras Installation: Wall or ceiling Colour: Grey (RAL7032) Loading capacity: Approx. 2 kg Dimensions (dia. x l): 54 x 210-310 mm Weight: 0.21 kg	**2GF1710-8AQ**
CCCB210	**Ceiling Camera Bracket 210 mm** Easily adjusted, universal camera mount suitable for ceiling mounting of cameras Installation: Ceilling Colour: Grey (RAL7032) Loading capacity: Approx. 2 kg Dimensions (dia. x l): 54 x 210 mm Weight: 0.44 kg	**2GF1710-8AR**
CCCB210-310	**Ceiling Camera Bracket 210-310 mm** For installation of a camera without protective housing on a ceiling. Colour: Grey (RAL7032) Loading capacity: Approx. 2 kg Dimensions (dia. x l): 54 x 210-310 mm Weight: 0.44 kg	**2GF1710-8AS**

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Type		Order No.
CAB1420	**Universal Camera Mount 140 mm** Easily adjusted, universal camera mount suitable for wall, ceiling or shelf mounting of cameras. Installation: Wall or ceiling Colour: Silver and black Finish: Epoxy powder-coat Dimensions (dia. x l): 56 x 140 mm Weight: 0.25 kg	**2GF1710-8BD**
CAB1920	**Universal Camera Mount 190 mm** Easily adjusted, universal camera mount suitable for wall, ceiling or shelf mounting of cameras. Installation: Wall or ceiling Colour: Silver and black Finish: Epoxy powder-coat Dimensions (dia. x l): 56 x 190 mm Weight: 0.24 kg	**2GF1710-8BE**
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. Colour: Off-white (RAL9002) Installation: Wall or ceiling Load rating: 5 kg Arm length: 170 mm Weight: 0.20 kg	**GBQ:A5571550001**

Fixed dome overview

	Monofocal, fixed dome cameras			
	CFFC1315	CFFC1310	CFFB1315	CFFB1310
	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
Lens type	Manual iris 3.7 mm	Manual iris 3.7 mm	Manual iris 3.7 mm	Manual iris 3.7 mm
Horizontal angle of view	70°	70°	70°	70°
Min. illumination (at 50 IRE)	0.56 Lux (F2.0)	0.31 Lux (F2.0)	0.2 Lux (F2.0)	0.13 Lux (F2.0)
Dual power 12 V DC/24 V AC	■	■	■	■
TV standard	PAL or NTSC	PAL or NTSC	CCIR or EIA	CCIR or EIA
S/N-ratio	> 50 dB	> 50 dB	> 50 dB	> 50 dB
Back-light compensation (BLC)	■	■	■	■
Colour/mono switchover				
Infrared cut filter				
Automatic gain control (AGC)	■	■	■	■
Electronic shutter	auto / 1/50~1/100000 s	auto / 1/50~1/100000 s	auto / 1/50~1/100000 s	auto / 1/50~1/100000 s
Phase locking synchronisation	■	■	■	■
Remote programming	■	■		
RS232 interface	■	■		
Local service monitor connector	■	■	■	■
Wall or ceiling mount	■	■	■	■
Vandal protection rating				

Options

	CFFA-TD	CFFA-CD	CFFA-IC29	CFFA-IC37	CFFA-IC60	CFFA-IC12	CFFA-RS
	Tinted bubble	Clear bubble	2,9 mm lens	3,7 mm lens	6 mm lens	12 mm lens	Remote setup kit
CFFC1315	■	■	■	■	■	■	■
CFFC1310	■	■	■	■	■	■	■
CFFB1315	■	■	■	■	■	■	
CFFB1310	■	■	■	■	■	■	
CFVS1415	■	■					delivered with product
CFVC1415	■	■					■
CFVB1415	■	■					
CVVS1415							delivered with product
CVVC1315							delivered with product
CVVB1315							delivered with product

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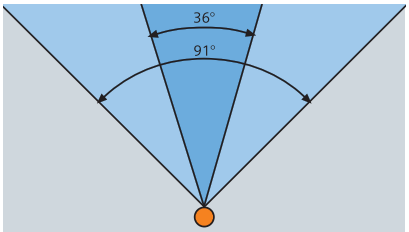
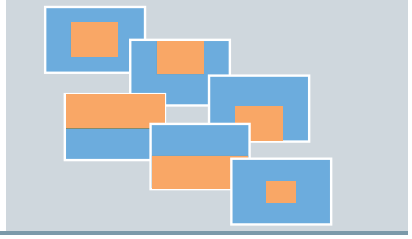
Varifocal, fixed dome cameras			Vandal-resistant, varifocal, fixed dome cameras		
CFVS1415	CFVC1415	CFVB1415	CVVS1415	CVVC1315	CVVB1315
Day-Night	Colour	Mono	Day-Night	Colour	Mono
1/4"	1/4"	1/4"	1/4"	1/3"	1/3"
480	480	580	480	480	580
High	High	High	High	High	High
Auto-iris 2.8 mm ~ 5.8 mm	Auto-iris 2.8 mm ~ 5.8 mm	Auto-iris 2.8 mm ~ 5.8 mm	Auto-iris 2.8 mm ~ 5.8 mm	Auto-iris 3 mm ~ 8 mm	Auto-iris 3 mm ~ 8 mm
35.9° ~ 74.7°	38.2° ~ 76.7°	38.2° ~ 76.7°	35.9° ~ 74.7°	36° ~ 91°	36° ~ 91°
0.34 Lux (F1.4)	0.6 Lux (F1.4)	0.2 Lux (F1.4)	0.34 Lux (F1.4)	0.47 Lux (F1.0)	0.05 Lux (F1.0)
■	■	■	■	■	■
PAL or NTSC	PAL or NTSC	CCIR or EIA	PAL or NTSC	PAL or NTSC	CCIR or EIA
> 50 dB	> 50 dB	> 50 dB	> 50 dB	> 50 dB	> 50 dB
■	■	■	■	■	■
■			■		■
mechanical			mechanical		
■	■	■	■	■	■
auto / 1/50~1/100000 s	auto / 1/50~1/100000 s	auto / 1/50~1/100000 s	auto / 1/50~1/100000 s	auto / 1/50~1/100000 s	auto / 1/50~1/100000 s
■	■	■	■	■	■
■	■		■	■	
■	■		■	■	
■	■	■	■	■	■
■	■	■	■	■	■
			IP66, 1000 kg	IP66, 1000 kg	IP66, 1000 kg

Greater viewing angle for colour and mono models



Software allows programming of six different modes of back-light compensation



CVVA-FMIP	CVVA-CD	CVVA-WMIP	CFVA-BA	CFVA-IP	CVVA-IP
Flush mount kit	Clear bubble (vandal)	Wall mount bracket	Indoor dome base	IP module (fixed dome cameras)	IP module (vandal resistant dome cameras)
■			■	■	
■			■	■	
■			■	■	
■			■	■	
■			■	■	
■			■	■	
■			■	■	
■	■	■			■
■	■	■			■
■	■	■			■

Vandal-resistant models mounting options

- Ceiling mount

- Wall mount

- Flush mount kit

- Wall mount bracket

Fixed Domes

Type		Order No.
CFFB1310..	**1/3" CCD 3.7 mm Monochrome Fixed Dome**	**CFFB1310..**

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.

Horizontal resolution	400 TV lines
Minimum illumination	0.13 Lux (F2.0 @50IRE)
Gain control	AGC (ON/OFF)
S/N ratio	> 50 dB
Lens	3.7 mm, F2.0
Electronic shutter (AES)	Autom 1/50 to 1/100K s
Horizontal angle of view	70°
Minimum object distance	0.2 m
Bubble type	Clear
Backlight compensation	(ON/OFF)
Local service monitor connector	2-pin (1 m BNC cable included)
Dimensions (Ø x H)	112 x 97.5 mm
Power requirements	12 V DC / 24 V AC
Power consumption	3 W
Weight	0.29 kg

CFFB1310-LC	**1/3" CCD 3.7 mm Monochrome Fixed Dome 400 TVL, CCIR**	**2GF1084-8AC**

As CFFB1310.. for technical details, but with the following differences:

Television standard	CCIR: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	500 (H) x 582 (V)

CFFB1310-LE	**1/3" CCD 3.7 mm Monochrome Fixed Dome 400 TVL, EIA**	**2GF1084-8AD**

As CFFB1310.. for technical details, but with the following differences:

Television standard	EIA: 525 lines, 60 fields, 60 Hz (vertically), 15.734 Hz (horizontally)
Pixels	510 (H) x 492 (V)

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Type		Order No.
CFFB1315..	**1/3" Monochrome Fixed Dome 580 TVL, 12 V DC / 24 V AC** 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. Horizontal resolution: 580 TV lines Minimum illumination: 0.2 Lux (F2.0 @50IRE) Gain control: AGC (ON/OFF) S/N ratio: > 50 dB Lens: 3.7 mm, F2.0 Electronic shutter (AES): Autom 1/50 to 1/100K s Horizontal angle of view: 70° Minimum object distance: 0.2 m Bubble type: Clear Backlight compensation: (ON/OFF) Local service monitor connector: 2-pin (1 m cable included) Dimensions (Ø x H): 112 x 97.5 mm Power requirements: 12 V DC / 24 V AC Power consumption: 3 W Weight: 0.29 kg	**CFFB1315..**
CFFB1315-LC	**1/3" Monochrome Fixed Dome 580 TVL, CCIR, 12 V DC / 24 V AC** As CFFB1315.. for technical details, but with the following differences: Television standard: CCIR: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally) Pixels: 752 (H) x 582 (V)	**2GF1084-8AA**
CFFB1315-LE	**1/3" CCD 3.7 mm Monochrome Fixed Dome 580 TVL, EIA, 12 V DC / 24 V AC** As CFFB1315.. for technical details, but with the following differences: Television standard: EIA: 525 lines, 60 fields, 60 Hz (vertically), 15.734 Hz (horizontally) Pixels: 768 (H) x 494 (V)	**2GF1084-8AB**

Type		Order No.
CFFC1310..	**1/3" CCD 3.7 mm Colour Fixed Dome 330 TVL**	**CFFC1310..**

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.

Horizontal resolution	330 TV lines
Minimum illumination	0.31 Lux (F2.0 @50IRE)
Gain control	AGC (ON/OFF)
S/N ratio	> 50 dB
Lens	3.7 mm, F2.0
Electronic shutter (AES)	Autom 1/50 to 1/100K s
Horizontal angle of view	70°
Minimum object distance	0.2 m
Bubble type	Clear
Backlight compensation	(ON/OFF)
Local service monitor connector	2-pin (1 m cable included)
Dimensions (Ø x H)	112 x 97.5 mm
Power requirements	12 V DC / 24 V AC
Power consumption	3.5 W
Weight	0.29 kg

CFFC1310-LP	**1/3" CCD 3.7 mm Colour Fixed Dome 330 TVL, PAL**	**2GF1184-8AC**

As CFFC1310.. for technical details, but with the following differences:

Pixels	500 (H) x 582 (V)
Television standard	PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)

CFFC1310-LN	**1/3" CCD 3.7 mm Colour Fixed Dome 330 TVL, NTSC**	**2GF1184-8AD**

As CFFC1310.. for technical details, but with the following differences:

Pixels	510 (H) x 492 (V)
Television standard	NTSC: 525 lines, 60 fields, 60 Hz (vertically), 15.734 Hz (horizontally)

CFFC1315..	**1/3" CCD 3.7 mm Colour Fixed Dome 480 TVL**	**CFFC1315..**

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.

Horizontal resolution	480 TV lines
Minimum illumination	0.56 Lux (F2.0 @50IRE)
Gain control	AGC (ON/OFF)
Electronic shutter (AES)	Autom 1/50 to 1/100K s
Bubble type	Clear
Backlight compensation	(ON/OFF)
Local service monitor connector	2-pin (1 m cable included)
S/N ratio	> 50 dB
White balance control	Auto
Dimensions (Ø x H)	112 x 97.5 mm
Power requirements	12 V DC / 24 V AC
Power consumption	3.5 W
Weight	0.29 kg

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Type		Order No.
CFFC1315-LP	**1/3" CCD 3.7 mm Colour Fixed Dome 480 TVL, PAL** As CFFC1315.. for technical details, but with the following differences: Television standard: PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally) Pixels: 752 (H) x 582 (V)	**2GF1184-8AA**
CFFC1315-LN	**1/3" CCD 3.7 mm Colour Fixed Dome 480 TVL, NTSC** As CFFC1315.. for technical details, but with the following differences: Television standard: NTSC: 525 lines, 60 fields, 60 Hz (vertically), 15.734 Hz (horizontally) Pixels: 768 (H) x 494 (V)	**2GF1184-8AB**
CFVB1415..	**1/4" CCD 2.8-5.8 mm Monochrome Varifocal Dome 580 TVL, 12 V DC / 24 V AC** Attractive, 1/4" high resolution, ceiling-mount monochrome, varifocal dome camera complete with tinted protective bubble. Includes service monitor connection and cable for local, easy setup. Designed for indoor applications where discreet, unobtrusive surveillance is demanded. Horizontal resolution: 580 TV lines Minimum illumination: 0.2 Lux (F1.4 @50IRE) Gain control: AGC (ON/OFF) S/N ratio: > 50 dB Lens: 2.8 – 5.8 mm, DD auto-iris Electronic shutter (AES): Autom 1/50 to 1/100K s Horizontal angle of view: 38.2 – 76.7° Minimum object distance: 0.2 m Bubble type: Tinted Backlight compensation: (ON/OFF) Local service monitor connector: 2-pin (1 m cable included) Dimensions (Ø x H): 112 x 97.5 mm Power requirements: 12 V DC / 24 V AC Power consumption: 3 W Weight: 0.29 kg	**CFVB1415..**
CFVB1415-LC	**1/4" CCD 2.8-5.8 mm Monochrome Varifocal Dome 580 TVL, CCIR, 12 V DC / 24 V AC** As CFVB1415.. for technical details, but with the following differences: Television standard: CCIR: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally) Pixels: 752 (H) x 582 (V)	**2GF1184-8AG**
CFVB1415-LE	**1/4" CCD 2.8-5.8 mm Monochrome Varifocal Dome 580 TVL, EIA, 12 V DC / 24 V AC** As CFVB1415.. for technical details, but with the following differences: Television standard: EIA: 525 lines, 60 fields, 60 Hz (vertically), 15.734 Hz (horizontally) Pixels: 768 (H) x 494 (V)	**2GF1184-8AH**

Type		Order No.
CFVC1415..	**1/4" CCD 2.8-5.8 mm Colour Varifocal Dome 480 TVL, 12 V DC / 24 V AC**	**CFVC1415..**

Attractive, 1/4" high resolution, ceiling-mount colour, varifocal dome camera complete with tinted protective bubble. Includes service monitor connection and cable for local, easy setup. Designed for indoor applications where discreet, unobtrusive surveillance is demanded.

Horizontal resolution	480 TV lines
Minimum illumination	0.6 Lux (F1.4 @50IRE)
Gain control	AGC (ON/OFF)
S/N ratio	> 50 dB
Lens	2.8 – 5.8 mm, DD auto-iris
Electronic shutter (AES)	Autom 1/50 to 1/100K s
Horizontal angle of view	38.2 – 76.7°
Minimum object distance	0.2 m
Bubble type	Tinted
Backlight compensation	(ON/OFF)
Local service monitor connector	2-pin (1 m cable included)
Dimensions (Ø x H)	112 x 97.5 mm
Power consumption	3.5 W
Power requirements	12 V DC / 24 V AC
Weight	0.29 kg

CFVC1415-LP	**1/4" CCD 2.8-5.8 mm Colour Varifocal Dome 480 TVL, PAL, 12 V DC / 24 V AC**	**2GF1184-8AE**

As CFVC1415.. for technical details, but with the following differences:

Television standard	PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	752 (H) x 582 (V)

CFVC1415-LN	**1/4" CCD 2.8-5.8 mm Colour Varifocal Dome 480 TVL, NTSC, 12 V DC / 24 V AC**	**2GF1184-8AF**

As CFVC1415.. for technical details, but with the following differences:

Television standard	NTSC: 525 lines, 60 fields, 60 Hz (vertically), 15.734 Hz (horizontally)
Pixels	752 (H) x 582 (V)

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Type		Order No.
CFVS1415..	**1/4" CCD 2.8-5.8 mm, Day-Night Varifocal Dome, 480 TVL, 12 V DC / 24 V AC**	**CFVS1415..**

Attractive, 1/4" high resolution, ceiling-mount day-night, varifocal dome camera complete with tinted protective bubble. Includes service monitor connection and cable for local, easy setup. Designed for indoor applications where discreet, unobtrusive surveillance is demanded.

Horizontal resolution	480 TV lines
Minimum illumination	Colour: 0.34 Lux (F1.4 @50IRE) Mono: 0.15 Lux (F1.4 @50IRE)
Gain control	AGC (ON/OFF)
S/N ratio	> 50 dB
Lens	2.8 – 5.8 mm, DD auto-iris
Electronic shutter (AES)	Autom 1/50 to 1/100K s
Horizontal angle of view	35.9 – 74.7°
Minimum object distance	0.2 m
Bubble type	Tinted
Backlight compensation	(ON/OFF)
Local service monitor connector	2-pin (1 m cable included)
Dimensions (Ø x H)	112 x 97.5 mm
Power consumption	3.5 W
Power requirements	12 V DC / 24 V AC
Weight	0.29 kg

CFVS1415-LP	**1/4" CCD 2.8-5.8 mm, Day-Night Varifocal Dome, 480L, PAL, 12 V DC / 24 V AC**	**2GF1184-8AJ**

As CFVS1415.. for technical details, but with the following differences:

Television standard	PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	752 (H) x 582 (V)

CFVS1415-LN	**1/4" CCD 2.8-5.8 mm, Day-Night Varifocal Dome, 480L, NTSC, 12 V DC / 24 V AC**	**2GF1184-8AK**

As CFVS1415.. for technical details, but with the following differences:

Television standard	NTSC: 525 lines, 60 fields, 60 Hz (vertically), 15.734 Hz (horizontally)
Pixels	768 (H) x 494 (V)

Type		Order No.
CVVB1315..	**1/3" CCD 3-8 mm Monochrome Vandal Resistant Varifocal Dome, 580 TVL, 12 V DC / 24 V AC**	**CVVB1315..**

Attractive, vandal resistant, high resolution, monochrome camera with IP66 protection rating, 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.

Horizontal resolution	580 TV lines
Minimum illumination	0.05 Lux (F1.0 @50IRE)
Gain control	AGC (ON/OFF)
S/N ratio	> 50 dB
Lens	3 – 8 mm, DD auto-iris, aspherical
Electronic shutter (AES)	Autom 1/50 to 1/100K s
Horizontal angle of view	36 – 91°
Minimum object distance	0.2 m
Bubble type	Tinted
Backlight compensation	(ON/OFF)
Local service monitor connector	2-pin (1 m cable included)
Dimensions (W x H)	140 x 112 mm
Power consumption	3.5 W
Power requirements	12 V DC / 24 V AC
Weight	1.7 kg

CVVB1315-LC	**1/3" CCD 3-8 mm Monochrome Vandal Resistant Varifocal Dome, 580 TVL, CCIR, 12 V DC / 24 V AC**	**2GF1085-8AC**

As CVVB1315.. for technical details, but with the following differences:

Television standard	CCIR: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	752 (H) x 582 (V)

CVVB1315-LE	**1/3" CCD 3-8 mm Monochrome Vandal Resistant Varifocal Dome, 580 TVL, EIA, 12 V DC / 24 V AC**	**2GF1085-8AD**

As CVVB1315.. for technical details, but with the following differences:

Television standard	EIA: 525 lines, 60 fields, 60 Hz (vertically), 15.734 Hz (horizontally)
Pixels	768 (H) x 494 (V)

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Type		Order No.
CVVC1315..	**1/3" CCD 3-8 mm Colour Vandal Resistant Varifocal Dome, 480 TVL, 12 V DC / 24 V AC**	**CVVC1315..**

Attractive, vandal resistant, high resolution colour camera with IP66 protection rating, 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.

Horizontal resolution	480 TV lines
Minimum illumination	0.47 Lux (F1.0 @50IRE)
Gain control	AGC (ON/OFF)
S/N ratio	> 50 dB
Lens	3 – 8 mm, DD auto-iris, aspherical
Electronic shutter (AES)	Autom 1/50 to 1/100K s
Horizontal angle of view	36 – 91°
Minimum object distance	0.2 m
Bubble type	Tinted
Backlight compensation	(ON/OFF)
Local service monitor connector	2-pin (1 m cable included)
Dimensions (W x H)	140 x 112 mm
Power consumption	3.5 W
Power requirements	12 V DC / 24 V AC
Weight	1.7 kg

CVVC1315-LP	**1/3" CCD Colour Vandal Resistant Varifocal Dome, 480 TVL PAL, 12 V DC / 24 V AC**	**2GF1185-8AA**

As CVVC1315.. for technical details, but with the following differences:

Television standard	PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	752 (H) x 582 (V)

CVVC1315-LN	**1/3" CCD Colour Vandal Resistant Varifocal Dome, 480 TVL NTSC, 12 V DC / 24 V AC**	**2GF1185-8AB**

As CVVC1315.. for technical details, but with the following differences:

Television standard	NTSC: 525 lines, 60 fields, 60 Hz (vertically), 15.734 Hz (horizontally)
Pixels	768 (H) x 494 (V)

Type		Order No.
CVVS1415..	**1/4" CCD 3-8 mm Day-Night Vandal Resistant Varifocal Dome 480 TVL, 12 V DC / 24 V AC** Attractive, vandal resistant, high resolution, day-night camera including mechanical IR cut filter with IP66 protection rating, 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. Horizontal resolution: 480 TV lines Minimum illumination: Colour: 0.34 Lux (F1.4 @50IRE) Mono: 0.15 Lux (F1.4 @50IRE) Gain control: AGC (ON/OFF) S/N ratio: > 50 dB Lens: 2.8 – 5.8 mm, DD auto-iris Electronic shutter (AES): Autom 1/50 to 1/100K s Horizontal angle of view: 35.9 – 74.7^0 Minimum object distance: 0.2 m Maximum relative aperture: F1.4 ~360 Bubble type: Tinted Backlight compensation: (ON/OFF) Local service monitor connector: 2-pin (1 m cable included) Remote setup: 10-pin for PC connection (cable & software included) Protection rating: IP66 White balance control: Auto Dimensions (W x H): 140 x 112 mm Power consumption: 3.5 W Power requirements: 12 V DC / 24 V AC Weight: 1.70 kg	**CVVS1415..**
CVVS1415-LP	**1/4" CCD 3-8 mm Day-Night Vandal Resistant Varifocal Dome 480 TVL, PAL, 12 V DC / 24 V AC** As CCDA1435.. for technical details, but with the following differences: Television standard: PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally) Pixels: 752 (H) x 582 (V)	**2GF1185-8AE**
CVVS1415-LN	**1/4" CCD 3-8 mm Day-Night Vandal Resistant Varifocal Dome 480 TVL, NTSC, 12 V DC / 24 V AC** As CCDA1435.. for technical details, but with the following differences: Television standard: NTSC: 525 lines, 60 fields, 60 Hz (vertically), 15.734 Hz (horizontally) Pixels: 768 (H) x 494 (V)	**2GF1185-8AF**

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Type		Order No.
CVAC1415	**High Resolution, Auto-focus Colour Dome Camera with 22x Optical Zoom, in Vandal-Resistant Housing**	**2GF1182-8AM**

The CVAC1415 is a high resolution colour camera with built-in auto-focus zoom lens with max. 242x zoom. The camera is designed for out-door use under variable lighting conditions. It is built into a compact and attractively styled vandal-resistant housing.

Pixels	795 (H) x 596 (V)
Image sensor	1/4" SONY Super HAD CCD
Synchronisation	Internal: crystal/external: Line Lock
Minimum illumination	1.0 lux @ F=1.6 (AGC on, 50 IRE video output) 0.02 lux (Mono)
Slow speed shutter	x2 – x60
S/N ratio	> 50 dB (AGC off)
Operating temperature range	-10° C to +50° C
Dimensions (Ø x H)	140.5 x 112.0 mm
Power requirements	12 V DC / 24 V AC
Power consumption	6 W
Weight	1.10 kg

CVAS1415	**High Resolution, Auto-focus Day-Night Dome Camera with 22x Optical Zoom, in Vandal-Resistant Housing**	**2GF1182-8AN**

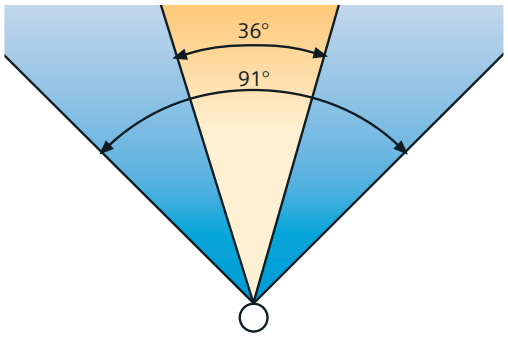
The CVAS1415 is a high resolution day-night camera with built-in auto-focus zoom lens with max. 242x zoom. The camera is designed for out-door use under variable lighting conditions. It is built into a compact and attractively styled vandal resitant dome housing.

Pixels	795 (H) x 596 (V)
Image sensor	1/4" SONY Super HAD CCD
Synchronisation	Internal: crystal/external: Line Lock
Minimum illumination	0.5 lux (colour) @ F=1.6 (AGC on, 50 IRE video output), 0.05 lux (B/W), 0.001 lux (slow shutter)
Slow speed shutter	x2 – x60
S/N ratio	> 50 dB (AGC off)
Operating temperature range	-10° C to +50° C
Dimensions (Ø x H)	140.5 x 112.0 mm
Power requirements	12 V DC / 24 V AC
Power consumption	6 W
Weight	1.10 kg

Vandal dome features...

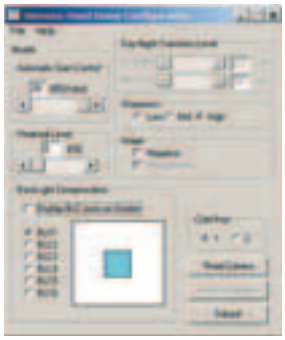
Day-night model automatically changes from colour pictures by day, to monochrome images at night – true 24 hour surveillance!

F1.0 offers twice the amount of light available than F1.4, available on both colour and mono models

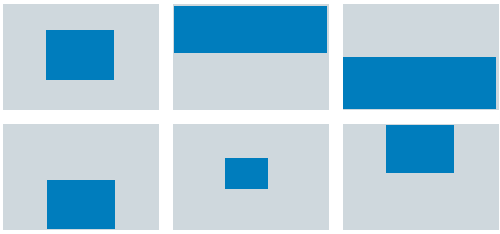


Greater viewing angle for colour and mono models

1000 kg impact resistant and IP66 protection rating



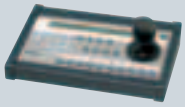
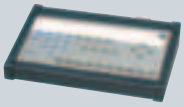
Remote setup for both day-night and colour models



Software allows programming of six different modes of back-light compensation

...for varying applications.

	CCDA1435-ST	CCDA1435-LL	CCDA1435-DN	CCDA1435-DNX
Domes				
CCD size	1/4″	1/4″	1/4″	1/4″
TV Lines	480 lines	480 lines	480 lines	480 lines
Resolution	High resolution	High resolution	High resolution	High resolution
Type	Colour	Low-light colour	Day-night	Day-night
Optical zoom	18x	18x	18x	26x
Digital zoom	12x	12x	12x	12x
Total zoom	216x	216x	216x	312x
TV Standard	PAL	PAL	PAL	PAL
Minimum illumination	1.0 Lux (F1.4)	0.7 Lux (F1.4,1/50s) 0.05 Lux (F1.4, 1/3s)	0.7 Lux (F1.4,1/50s) 0.01 Lux (F1.4, 1/3s, night mode)	1.0 Lux (F1.6,1/50s) 0.01 Lux (F1.6, 1/3s, night mode)
S/N Ration	50 dB	50 dB	50 dB	50 dB
Lens focal length	4.1 – 73.8 mm	4.1 – 73.8 mm	4.1 – 73.8 mm	3.5 – 91 mm
Mechanical IR cut filter			■	■
On-screen display menu	■	■	■	■
Manual pan-tilt speed	0.1 – 90°/s	0.1 – 90°/s	0.1 – 90°/s	0.1 – 90°/s
Preset pan-tilt speed	300°/s	300°/s	300°/s	400°/s
Presets	64	64	64	64
Tours	4	4	4	4
Privacy zones	8	8	8	8
Password protection	■	■	■	■
Preset title naming	■	■	■	■
Alarm inputs	4	4	4	4
Alarm output	1	1	1	1
Power	24 V AC, 20 VA	24 V AC, 20 VA	24 V AC, 20 VA	24 V AC, 20 VA

	CKA4820 2GF2400-8EC	CKA3210 2GF2400-8EA
Controllers		
Variable speed joystick	Yes	No
Fixed speed control	Yes	Yes
LCD display	Yes	No
SISTORE AX remote control	Yes	No
Power	12 V DC	12 V DC

Type		Order No.
CCDA1435..	**1/4" CCD High-Speed Dome, Indoor 24 V AC**	**CCDA1435..**

The CCDA1435 dome range 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 flush mount ceiling brackets, wall mount brackets and different bubble colours. As The dome contains all the necessary installation components, so 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 installation and service. The dome accommodates a variety of protocols, including the Siemens protocol. The dome is available as a simple colour camera, light-sensitive low-light camera or flexible, day-night camera with 18 x and 26 x optical zoom and 480 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.

Television standard	PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	752 (H) x 582 (V)
Synchronisation	Internal / Line-Lock; phase adjustable
Horizontal resolution	480 TV lines
Iris control	Auto
S/N ratio	> 50 dB
Electronic shutter	Auto: 1/1-1/10.000 s Manual: 22 steps
On-screen display menus (OSD)	English
Alarms	4 Alarm in
Gain control	AGC
Pan speed	0.1-90°/s 0.1°/s: max. digital zoom 0.4°/s: max. optical zoom
Tilt speed	0.1-45°/s 0.1°/s: max. digital zoom 0.4°/s: max. optical zoom
Preset Speed	Pan: max. 400°/s Tilt: max. 200°/ s
Pan travel	Continuous
Tilt travel	Indoor: 85° Outdoor: 92°
Password protection	Alphanumerical Dome OSD setup protection
White balance control	ATW (2000-10.000° K), auto (3000-7500° K); one push
Television standard	PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Presets	64
Privacy zones	8
Programmable patterns	4
Zoom	18 x optical, 12 x digital
Lens	4.1-73.8 mm, auto focus
Dimensions (Ø x H)	134 x 219.9 mm
Power requirements	20 W
Weight	1.75 kg

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Type			Order No.
CCDA1435-ST	**1/4" CCD High-Speed Colour Dome, 480 TVL, PAL, Indoor 24 V AC**		**2GF1193-8AA**
	As CCDA1435.. for technical details, but with the following differences:		
	Minimum illumination	1.0 lux (F1.4, 1/50s)	
CCDA1435-LL	**1/4" CCD High-Speed Low-Light Colour Dome, 480 TVL, PAL, Indoor 24 V AC**		**2GF1193-8AB**
	As CCDA1435.. for technical details, but with the following differences:		
	Minimum illumination	0.7 Lux (F1.4, 1/50s) 0.05 Lux (F1.4, 1/3s)	
CCDA1435-DN	**1/4" CCD High-Speed Day-Night Dome, 480 TVL, PAL, Indoor 24 V AC**		**2GF1193-8AC**
	As CCDA1435.. for technical details, but with the following differences:		
	Minimum illumination	Colour: 0.7 Lux (F1.4, 1/50s) B&W: 0.01 Lux (F1.4, 1/3s)	
CCDA1435-DNX	**1/4" CCD High-Speed Day-Night Dome, 480 TVL, PAL, Indoor 24 V AC**		**2GF1193-8AD**
	As CCDA1435.. for technical details, but with the following differences:		
	Lens	3.5-91 mm, auto focus	
	Minimum illumination	Colour: 1 Lux (F1.6, 1/50 s) Mono: 0.01 Lux (F1.6 1/3 s)	
	Zoom	26 x optical, 12 x digital	

Functional Domes

	CCDS1415-ST	CCDS1415-DN	CCDS1415-DNX
CCD size	1/4"	1/4"	1/4"
TV lines	480	480	480
Resolution	High resolution	High resolution	High resolution
Type	Colour	Day-Night	Day-Night
Zoom optical / digital	18x / 12x	18x / 12x	26x / 12x
Total zoom	216x	216x	312x
Minimum illumination	0.05 Lux (F1.4)	0.05 Lux (colour); 0.01 Lux (mono)	0.05 Lux (colour); 0.01 Lux (mono)
Lens focal length	4.1 ~ 73.8 mm	4.1 ~ 73.8 mm	2.5 ~ 91 mm
S/N ratio	> 50 dB	> 50 dB	> 50 dB
Mechanical IR cut filter		■	■
Pan-tilt speed	0.2 ~ 360°/s	0.2 ~ 360°/s	0.2 ~ 360°/s
Presets	max. 99 (depending on protocol)	max. 99 (depending on protocol)	max. 99 (depending on protocol)
Tours	32 positions	32 positions	32 positions
Privacy zones	24	24	24
Alarm inputs XTU	7 + 1x tamper	7 + 1x tamper	7 + 1x tamper
Alarm output XTU	1	1	1
Power	110 ~ 230 V AC via XTU	110 ~ 230 V AC via XTU	110 ~ 230 V AC via XTU

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Type		Order No.
CCDS1415..	**Solaris™ Colour High-Speed Dome**	**CCDS1415..**

Solaris™ offers accuracy, speed, reliability and high quality images. With its unique split concept, External Termination Unit (XTU) and camera Head Unit (HU), Solaris™ has proven to be the solution of choice for installers and end-users around the world.
From shops to holiday resorts, hospitals to commercial premises, with perfect picture quality, Solaris™ ensures security is kept at its highest. These new developments in dome technology now bring you more features than ever before.

Television standard	PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Horizontal resolution	480 TV lines
S/N ratio	≥ 50 dB
Electronic shutter	1/10000 s, 22 steps
Gain control	Auto (-3 to 28 dB, 2 dB steps)
Pan speed	0.2 – 360°/sec
Tilt speed	0.2 – 360°/sec
Pan travel	360° continuous
Tilt travel	+10° and -100°
White balance control	Auto/One Push
Television standard	PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Presets	Max. 99 (depending on protocol and controller)
Dimensions (Ø x H)	245 x 354 mm
Power requirements	18 – 24 V DC @ 2 A, supplied from the XTU via the Cat-5 cable

CCDS1415-ST	**Solaris™ 1/4" High-Speed Dome, 24 Privacy Zones, 18x Zoom, Colour, Smoked Bubble, IP67, Supplied with 110 – 230 V AC XTU**	**2GF1194-8AA**

As CCDS1415.. for technical details, but with the following differences:

Minimum illumination	0.05 lux
Lens	18 x optical, 12 x digital 4.1 to 73.8 mm (F1.4 to F3.0)
Weight	5.6 kg

CCDS1415-DN	**Solaris™ 1/4" High-Speed Dome, 24 Privacy Zones, x18 Zoom, Day-Night, Clear Bubble, IP67, Supplied with 110 – 230 V AC XTU**	**2GF1194-8AC**

As CCDS1415.. for technical details, but with the following differences:

Minimum illumination	0.05 lux (colour) 0.01 lux (mono)
Lens	18 x optical, 12 x digital 4.1 to 73.8 mm (F1.4 to F3.0)
Weight	5.6 kg

Type		Order No.
CCDS1415-DNX	**Solaris™ 1/4" High Resolution Dome, 24 Privacy Zones, 26x Zoom, Day-Night, Clear Bubble, IP67, Supplied with 110 – 230 V AC XTU**	**2GF1194-8AD**

As CCDS1415.. for technical details, but with the following differences:

Minimum illumination	0.05 lux (colour) 0.01 lux (mono)
Lens	26 x optical, 12 x digital 3.5 mm to 91 mm (F1.6 to F3.8)
Weight	5.6 kg

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Type		Order No.
CFFA-TD	**Tinted Bubble for CFxx Fixed Dome Series** Tinted bubble for exchange with the standard clear bubble that is delivered with the CFFB1310, CFFB1315, CFFC1310, CFFC1315 indoor, fixed-focal or replacement of the tinted bubble that is delivered with CFVB1415, CFVC1415, CFVS1415 indoor varifocal domes. Weight 0.05 kg	2GF1086-8AA
CFFA-CD	**Clear Bubble CFxx Fixed Dome Series** Clear bubble for exchange with the standard tinted bubble that is delivered with the CFVB1415, CFVC1415, CFVS1415 indoor varifocal domes or replacement of the clear bubble that is delivered with CFFB1310, CFFB1315, CFFC1310, CFFC1315 indoor fixed-focal. Weight 0.05 kg	2GF1086-8AG
CVVA-CD	**Clear Lower Dome CVxx Vandal Dome Series** Clear lower dome for exchange with the standard tinted bubble that is delivered with the vandal-resistant dome. Weight 0.05 kg	2GF1086-8AH
CFFA-IC..	**Replacement Lens for Fixed Dome CFxx Series** Replacement lenses for exchange with the standard lenses for CFFB1310, CFFB1315, CFFC1310, CFFC1315 internal fixed domes.	CFFA13..
CFFA-IC29	**Replacement Lens 2.9 mm for CF Series** Weight 0.15 kg	2GF1086-8AB
CFFA-IC37	**Replacement Lens 3.7 mm for CF Series** Weight 0.20 kg	2GF1086-8AK
CFFA-IC60	**Replacement Lens 6.0 mm for CF Series** Weight 0.15 kg	2GF1086-8AF
CFFA-IC12	**Replacement Lens 12 mm for CF Series** Weight 0.15 kg	2GF1086-8AE

Dome Mounts and Accessories

Type		Order No.
CVVA-FMIP	**Indoor Flush Mount for Usage with Indoor Dome Series CFxx and Vandal Dome Series CVxx with or without Optional IP Modules CFVA-IP or CVVA-IP.** This indoor, flush ceiling-mount includes a clear bubble that will prevent the ingress of dust when the indoor domes CFxx or vandal domes CVxx are installed indoors. It is suitable for mounting with or without the optional IP modules CFVA-IP or CVVA-IP. The flush mount enables the indoor dome series CFxx and vandal dome series CVxx to be recessed into a hole cut into the ceiling. Dimensions (Ø x H) 225 x 120 mm Weight 1.30 kg	2GF1086-8AM
CVVA-WMIP	**Wall Bracket for Usage with Vandal Dome Series CVxx with or without Optional IP Module CVVA-IP** This wall mount attaches directly to a flat upright wall. It enables a mount of the vandal dome series with or without the optional IP module CVVA-IP. Weight 0.50 kg	2GF1086-8AN
CFVA-BA	**Indoor Dome Base CFVA-BA** The dome base provides additional installation space to hide the cabling inside the base. It is is only designed for installation indoors and only for use in conjunction with following dome camera: CFFB1310, CFFB1315, CFFC1310, CFFC1315, CFVB1415, CFVC1415 and CFVS1415. Additionally, the indoor dome base supports the installation of an optional twisted pair transmitter module CTTT0111 (2GF1714-8WN). When the twisted pair transmitter is used, the unit including the dome camera can be used with operation voltage of 12 V DC only! Dimensions (Ø x H) 140 x 35.3 mm Weight 0.40 kg	2GF1086-8AP

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Type		Order No.
CFVA-IP	**MJPEG IP Module for Indoor Fixed Domes**	**2GF1086-8AL**

The IP module CFVA-IP is especially designed for use with the indoor dome cameras CFFB1310, CFFB1315, CFFC1310, CFFC1315, CFVB1415, CFVC1415 and CFVS1415. Existing dome camera systems can easily be upgraded to latest IP technology. The integrated Web Server allows MJPEG compressed live images to be viewed using an http browser (Microsoft Internet Explorer from version 5.5 with Java plug-in or Mozilla or Netscape from version 7.0). A live player for stand-alone solutions is supplied with the IP module. The live video images supplied by the device can be embedded in dedicated HTML pages without difficulty. The digital video streams can be saved directly using the digital video recorder SISTORE MX (from version V2.50).

Picture format	QCIF (176 x 144) CIF (352 x 288) 4CIF (704 x 576) (interlaced)
Network connections	10baseT Ethernet or 100baseTX Fast Ethernet, auto-sensing, full / half duplex
Security	separate passwords for image access and system configuration
Protocols	ARP, BOOTP/DHCP, TCP/IP, HTTP, ICMP, SNMP, FTP and DNS
Installation	IP address configurable via ARP, BOOTP/DHCP, connection to twisted-pair RJ45 Ethernet.
Weight	0.40 kg
Power requirements	12 V DC / 24 V AC, 50 Hz
Power consumption	6 W

CVVA-IP — **MJPEG IP Module for Indoor Vandal Resistant Domes** — **2GF1185-8AG**

The IP module CVVA-IP is especially designed for use with the vandal-proof dome cameras CVVB1315, CVVC1315, CVVS1415. Existing fixed-dome camera systems can be easily upgraded to the latest IP technology. The integrated Web Server allows MJPEG compressed live images to be viewed using an http browser (Microsoft Internet Explorer from version 5.5 with Java plug-in or Mozilla or Netscape from version 7.0). A live player for stand-alone solutions is supplied with the IP module. The live video images supplied by the device can be embedded in dedicated HTML pages without difficulty. The digital video streams can be saved directly using the digital video recorder SISTORE MX (from version V2.50).

Picture format	QCIF (176 x 144) CIF (352 x 288) 4CIF (704 x 576) (interlaced)
Network connections	10baseT Ethernet or 100baseTX Fast Ethernet, auto-sensing, full / half duplex
Security	Separate passwords for image access and system configuration
Protocols	ARP, BOOTP/DHCP, TCP/IP, HTTP, ICMP, SNMP, FTP and DNS
Installation	IP address configurable via ARP, BOOTP/DHCP, connection to twisted-pair RJ45 Ethernet.
Weight	0.62 kg
Power requirements	12 V DC or 24 V AC, 50 Hz
Power consumption	6 W

Dome Mounts and Accessories

Type		Order No.
CCDA1425-WPH	**Weatherproof Housing for CCDA1425 or CCDA1435** This weatherproof housing enables the outdoor installation of the CCDA1425/CCDA1435 Speed Domes. Including a heater and fan, the housing is weatherproof according to IP66. Incorporating a temperature-management. The outdoor housing is designed for operation in temperatures ranging from -30 °C to +50 °C. Protection rating: IP66 Relative humidity: 0 – 90% Operating temperature range: -30 °C to +50 °C Storage temperature: -40 °C to +60 °C Dimensions (Ø x H): 240 x 350 mm Power consumption: 26 VA housing only Weight: 4.0 kg	**2GF1192-8BA**
CCDA1425-VRH	**CCDA1425-VRH** Vandal-Resistant dome outdoor housing Power requirements: 24 V AC Power consumption: 26 VA Dimensions (Ø x H): 240 mm x 345 mm Operating temperature range: -30 to +50 °C Storage temperature: -40 – + 60 °C Relative humidity: 0 – 90% Weight: 4.0 kg	**2GF1192-8CA**
CCDA1425-SM	**Indoor Surface Mount for CCDA1425 or CCDA1435** This indoor ceiling mount includes a clear bubble that will prevent the ingress of dust when the CCDA1425/CCDA1435 Speed Dome is installed indoors. This ceiling mount attaches directly to the surface of a flat ceiling. Storage temperature: -20° C to +60° C Relative humidity: 0 – 90% Dimensions (Ø x H): 165 x 228 mm Weight: 1.20 kg	**2GF1192-8BB**
CCDA1425-FM	**Indoor Flush Mount for CCDA1425 or CCDA1435** This indoor, flush ceiling-mount includes a clear bubble that will prevent the ingress of dust when the CCDA1425/CCDA1435 Speed Dome is installed indoors. This flush mount housing enables the CCDA1425/CCDA1435 Speed Domes to be recessed into a hole cut into the ceiling. Storage temperature: -20° C to +60° C Relative humidity: 0 – 90% Dimensions (Ø x H): 177 x 232 mm Weight: 1.40 kg	**2GF1192-8BC**

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Type		Order No.
CCDA1425-PMA	**Pole Mount Adapter For CCDA1425-WM or -WMJ** This pole mount adapter is used to fix the wall mount CCDA1425-WM or CCDA1425-WMJ onto a pole (max. pole diameter 150 mm). Storage temperature: -20° C to +60° C Relative humidity: 0 – 90% Dimensions (W x H x D): 180 x 240 x 60 mm Weight: 0.8 kg	**2GF1192-8BD**
CCDA1425-WM	**Outdoor Wall Mount for CCDA1425-WPH/-VRH** This outdoor wall mount attaches directly to a flat, upright wall and includes a mounting flange with a standard 1 1/2 inch NTP threaded pipe. This simple wall mount is compatible with the weatherproof outdoor housing CCDA1425-WPH/-VRH. Storage temperature: -20° C to +60° C Relative humidity: 0 – 90% Dimensions (W x H x D): 154 x 270 x 315 mm Weight: 3.40 kg	**2GF1192-8BE**
CCDA1425-WMJ	**Wall Mount with Junction Box for CCDA1425-WPH/-VRH** This wall mount attaches directly to a flat, upright wall and includes a mounting flange with a standard 1 1/2 inch NTP threaded pipe. The integrated junction box provides perfect cable connectivity and servicing / maintenance capability. The "internal" cabling to the dome camera is established via a system cable that is delivered together with the weatherproof housing. This pendant ceiling mount is compatible with the weatherproof outdoor housing CCDA1425-WPH/-VRH. Storage temperature: -20° C to +60° C Relative humidity: 0 – 90% Dimensions (W x H x D): 427 x 172 x 338 mm Weight: 4.8 kg	**2GF1192-8BF**
CCDA1425-PM	**Pendant Mount for CCDA1425-WPH/-VRH** This ceiling-pendant mount is a perfect solution for any wood, metal, plaster, drywall, or other hard ceiling installation. The mounting assembly includes a ceiling flange and a standard 1 1/2 inch NTP threaded pipe. The assembly can be used in beam/pendant installations. This pendant ceiling mount is compatible with the weatherproof outdoor housing CCDA1425-WPH/-VRH. Storage temperature: -20° C to +60° C Relative humidity: 0 – 90% Dimensions (W x H x D): 154 x 356 x 208 mm Weight: 3.0 kg	**2GF1192-8BG**

Dome Mounts and Accessories

Type		Order No.
CCDA1425-EP	**Extension Pole for CCDA1425-WM, CCDA1425-WMJ and CCDA1425-PM** The extension pole increases the length of wall and pendant mount by 0.5 m. For use with CCDA1425-WM, CCDA1425-WMJ and CCDA1425-PM. Storage temperature: -20° C to +60° C Relative humidity: 0 – 90% Dimensions (Ø x H): 62 x 535 mm Weight: 1.0 kg	**2GF1192-8BJ**
CCDA1425-CMA	**Corner Mount Adapter for CCDA1425-WM or -WMJ** This corner mount adapter can be used to fix the wall mounts CCDA1425-WM or CCDA1425-WMJ on a right angled wall corner. Storage temperature: -20° C to +60° C Relative humidity: 0 – 90% Dimensions (W x H x D): 180 x 210 x 308 mm Weight: 1.0 kg	**2GF1192-8BH**
CCDA1425-FMSB	**Bubble Smoked for CCDA1425-FM** Tinted/smoked bubble for exchange with the standard clear bubble that is delivered with the indoor ceiling flush mount CCDA1425-FM Weight: 0.30 kg	**2GF1192-8BK**
CCDA1425-SMSB	**Bubble Smoked for CCDA1425-SM** Tinted/smoked bubble for exchange with the standard clear bubble that is delivered with the indoor ceiling surface mount CCDA1425-SM. Weight: 0.30 kg	**2GF1192-8BL**

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Type		Order No.
CCDA1425-WPHSB	**Bubble Smoked for CCDA1425-WPH** Tinted/smoked bubble for exchange with the standard clear bubble that is delivered with the weatherproofed outdoor housing CCDA1425-WPH. Weight 0.60 kg	**2GF1192-8BM**
CCDA1425-VRHSB	**Exchange Bubble Smoked** Tinted / smoked exchange bubble for CCDA1425-VRH Dimensions (Ø x H) 220 mm x 110 mm Storage temperature -20 – +60 °C Relative humidity 0 – 90% Weight 0.60 kg	**2GF1192-8CB**
CCDA1425-VRHCB	**Exchange Bubble Clear** Clear exchange bubble for CCDA1425-VRH Dimensions (Ø x H) 220 mm x 110 mm Storage temperature -20 – +60 °C Relative humidity 0 – 90% Weight 0.60 kg	**2GF1192-8CC**
CCDA1425-PMI	**Indoor Pendant Mount Adapter for CCDA1425-PM and CCDA1425-SM** This indoor pendant mount adapter enables the usage of the pendant mount CCDA1425-PM together with the suface mount CCDA1425-SM to be used for indoor pendant mounting of CCDA1425/1435 domes. Dimensions (Ø x H) 233 x 53 mm Weight 0.63 kg	**2GF1192-8BN**
CCDA1425-WMI	**Indoor Wall Mount CCDA1425-WMI** This indoor wall mount attaches directly to a flat upright wall. It is to be used together with the indoor surface mount CCDA1425-SM and CCDA1425/1435 for indoor wall mount solutions. Dimensions (W x H x D) 230 x 266 x 140 mm Weight 1.3 kg	**2GF1192-8BQ**
CCDS1415-DH	**Solaris™ Dummy Dome** The Solaris Dummy Dome looks just like the real thing. It is an ideal, low-cost solution wherever offenders are to be discouraged and where video information is not actually required. Dimension (Ø x H) 245 x 355 mm Weight 2.0 kg	**2GF1194-8BA**

Dome Mounts and Accessories

Type		Order No.
CCDS1415-CH	**Solaris™ Dome Housing for Camera** This camera housing in the Solaris dome design allows a compact surveillance camera (e.g. CCAC1415-LPI) to be fitted into a dome housing. The housing includes a support allowing the camera to be manually adjusted to the optimal viewing angle in vertical and horizontal position. Weight 4.0 kg	**2GF1194-8BB**
CCDS1415-WM 	**Solaris™ Wall Mount** This wall mount can be used to mount a Solaris dome camera to a flat, upright wall. The wall mount has four holes. These holes are serve to pass continuous banding through the mounting plate to attach it to a pole. The banding is not within the scope of supply. Weight 2.0 kg	**2GF1194-8CD**
CCDS1415-FM 	**Solaris™ Recessed Ceiling Tile Mount** This recessed ceiling tile enables the CCDS1415 Solaris dome camera to be installed in a standard false ceiling tile. A bezel concealing the edge of the ceiling cut-out is included in the delivery. Dimension (Ø x H) 126 x 530 mm Weight 2.0 kg	**2GF1194-8CB**
CCDS1415-SN 	**Solaris™ Swan Neck Bracket** The swan neck bracket can be mounted a for instance behind a projection on a wall. It is made of uncoated metal. Weight 6.10 kg	**2GF1194-8CC**
CCDS1415-CMA 	**Solaris™ Corner Mount Adapter** This corner mount adapter can be used to fix the wall mount CCDS1415-WM on a right angled wall corner. Weight 5.0 kg	**2GF1194-8CE**

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Type		Order No.
CCDS1415-BM	**Solaris™ Parapet Mount Adapter** This parapet mount adapter can be used to fix the wall mount CCDS1415-WM on a parapet. Dimension (Ø x H) 216 x 103 mm Weight 1.0 kg	**2GF1194-8CF**
CCDS1415-BC	**Solaris™ Clear Bubble for CCDS1415** Clear bubble for exchange with the bubble that is delivered with the dome camera. Dimension (Ø x H) 216 x 103 mm Weight 1.0 kg	**2GF1194-8BD**
CCDS1415-BS	**Solaris™ Smoked Bubble for CCDS1415** Smoked bubble for exchange with the bubble that is delivered with the dome camera. Weight 1.0 kg	**2GF1194-8BE**
CCDS1415-XTU	**Solaris™ External Termination Unit** Optional control unit (XTU) for preparation of the subsequent installation of a Solaris dome for applications where a Solaris dome is to be exchanged against a dummy dome at regular intervals. Dimensions (W x H x D) 250 x 75 x 175 mm Weight 2.0 kg	**2GF1194-8BC**
CCDS1415-RTU	**Solaris™ Remote Termination Unit** Remote termination unit for local power supply of the Solaris dome camera. The RTU allows the XTU to be installed at a distance of up to 300 m from the dome camera. Dimensions (W x H x D) 250 x 75 x 175 mm Input voltage 110 to 230 V AC, 50/60 Hz Weight 1.30 kg	**2GF1194-8CG**

Dome Mounts and Accessories

Type			Order No.
CCDS1415-BHC	**Solaris™ Dome Custom Cover**		**2GF1194-8BG**
	Black heritage cover for Solaris™		
	Dimensions (Ø x H)	Excl. bubble: 300 x 405 mm Incl. bubble: 400 x 405 mm	
	Finish	Polyester powder coated black	
	Weight	1.25 kg	
CCDS1415-WHC	**Solaris™ Dome Custom Cover**		**2GF1194-8BH**
	White heritage cover for Solaris™		
	Dimensions (Ø x H)	Excl. bubble: 300 x 405 mm Incl. bubble: 400 x 405 mm	
	Finish	Polyester powder coated white	
	Weight	1.25 kg	
CCDS1415-NHC	**Solaris™ Dome Custom Cover**		**2GF1194-8BJ**
	Natural heritage cover for Solaris™		
	Dimensions (Ø x H)	Excl. bubble: 300 x 405 mm Incl. bubble: 400 x 405 mm	
	Finish	Polyester powder coated unpainted	
	Weight	1.25 kg	
CCDS1415-SS	**Solaris™ Dome Sun & Rain Shield**		**2GF1194-8BL**
	Dimensions (Ø x H)	360 mm x 12 mm	
	Weight	0.50 kg	

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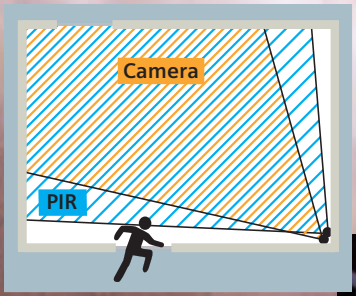
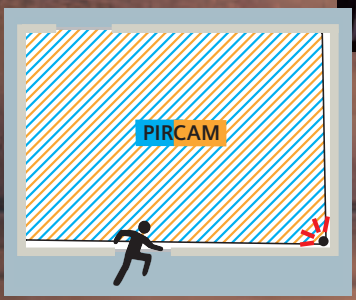
Features of PIRCAM



High false alarm rate – the PIR angle of view is different to the camera view, so nothing would appear on the monitor



No false alarms – both PIR and camera viewing angle are the same so the intruder always appears on the monitor

Snap-in Technology
Screw the base to the wall, connect the terminals and "snap" in the housing – simple!

Reliable performance with 52 zone black mirror optics filtering white light interference – combining world beating intrusion technology with high quality CCTV camera images from Siemens

Type		Order No.
VCD120-12	**1/3" CCD Monochrome Camera 420 TVL with PIR-Detector, CCIR, 12 V DC**	**2GF1082-8EA**

The discrete, high-quality monochrome 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.

Television standard	CCIR: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	500 (H) x 582 (V)
Horizontal resolution	> 420 TV lines
Minimum illumination	0.8 Lux (F2.0 @ 50IRE)
Horizontal angle of view	90°
Lens	3.0 mm, F2.0
S/N ratio	> 45 dB
Synchronisation	Internal or external
Gain control	Automatic
White balance control	Auto
Detection range	12 m
Electronic shutter	Auto (1/50 to 1/120,000 s)
Electronic shutter (AES)	Autom. 1/50 to 1/100K s
Back-light compensation	Automatic
Optical system	Black infrared mirror 12 m /52 zones
Alarm output contact rating	Opens on alarm, 30 V DC, 100 mA
Tamper output contact rating	30 V DC, 100 mA
Sensitivity evaluation mode	3 settings
Max. pet weight	Max. 10 kg with optional pet clip
Maximum relative aperture	F2.0
Protection rating	IP41
Dimensions (W x H x D)	50 x 115 x 65 mm
Power requirements	12 V DC, 110 mA
Power consumption	1.5 W
Weight	0.10 kg

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Type		Order No.
VCD320-12	**1/3" CCD Colour Camera 380 TVL with PIR-Detector, PAL, 12 V DC**	**2GF1182-8EA**

The discrete, high-quality colour 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.

Television standard	PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Pixels	500 (H) x 582 (V)
Horizontal resolution	> 380 TV lines TV lines
Minimum illumination	1.2 Lux (F2.0) at 50 IRE
Horizontal angle of view	90°
Lens	3.0 mm, F2.0
S/N ratio	> 51dB
Synchronisation	Internal or external
Gain control	Automatic
White balance control	Automatic
Detection range	12 m
Electronic shutter	Auto (1/50 to 1/120,000 s)
Electronic shutter (AES)	Autom. 1/50 to 1/100K s
Back-light compensation	Automatic
Optical system	Black infrared mirror 12 m /52 zones
Alarm output contact rating	Opens on alarm, 30 V DC, 100 mA
Tamper output contact rating	30 V DC, 100 mA
Sensitivity evaluation mode	3 settings
Max. pet weight	Max. 10 kg with optional pet clip
Maximum relative aperture	F2.0
Protection rating	IP41
Dimensions (W x H x D)	50 x 115 x 65 mm
Power requirements	12 V DC
Power consumption	1.5 W
Weight	0.10 kg

IRMC104	**Pet clip**	**BPZ:5623150001**

Mirror clip for outstanding pet immunity.

Delivery unit	4 pieces per package
Max. pet weight	IR120: 40 kg IR100: 20 kg
Weight	0.005 kg

IP Camera Overview

	CCIS1337	CCIC1345	CCIS1345	CCIW1345
Type	Day-Night	Colour	Day-Night	Day-Night Wide Dynamic
Image sensor	1/3″ CCD	1/3″ CCD	1/3″ CCD	1/3″ CCD
TV lines	540	540	540 (colour) / 570 (mono)	500 (colour WD) / 540 (mono WD)
Resolution	High resolution	High resolution	High resolution	High resolution
Compression standard	MJPEG	MJPEG / MPEG4 selectable		
Streaming	QCIF (176x144): 25 ips CIF (352x288): 25 ips 4CIF (704x576): 10 ips	QCIF (176x144): 25 ips CIF (352x288): 25 ips 2CIF (704x288): 25 ips 4CIF (704x576): max 25 ips		
Min. illumination (@ 50 IRE video, AGC ON)		0.4 lux @ F1.2	0.4 lux @ F1.2 (colour) / 0.1 lux @ F1.2 (mono) / 0.01 lux @ F1.2 (IR illumin.)	
Active pixels (H x V)	752 x 582	752 x 582	752 x 582	752 x 582
S/N ratio	> 50 dB	> 50 dB	> 50 dB	> 50 dB
Mechanical IR cut filter	■		■	■
Automatic gain control (AGC)	OFF, LOW, HIGH, 30 dB	OFF, LOW, HIGH (selectable)	OFF, LOW, HIGH (selectable)	OFF, ON (selectable)
Automatic white balance	■	■	■	■
Back-light compensation	6 zones	OFF, ON (selectable)	OFF, ON (selectable)	OFF, ON (selectable)
External input / output	Alarm input	Alarm input, day-night switch input, alarm output		
Composite BNC video output	■	■	■	■
Microphone		Integrated plus external connector		
Protocols	ARP, BOOT/DHCP, TCP/IP, HTTP, ICMP, SNMP, FTP, DNS	TCP/IP, UDP/IP, DHCP, DNS, HTTP(S), RTP (RTCP, RTSP), SMTP, NTP, IGMP v2, UPnP		
Power supply	12 V DC / 24 VAC	24 VAC	24 VAC	24 VAC
Power over Ethernet (PoE)	■	■	■	■
Video streaming and recording	Hybrid digital recording system SISTORE MX Network Video Recorder SISTORE MX NVR Network Video recording Software SISTORE MX NVS on a PC			

By simply adding an IP module the complete fixed dome range is IP enabled (yet still having the analogue BNC connector available) – offering direct connection to an Ethernet network. Plus, recording is possible using the SISTORE MX digital video surveillance family (see technical table).

Combining analogue BNC & digital IP technology in one device. Allowing selection between compression standards MJPEG and MPEG4 (CCiX1345).

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Type		Order No.
CCIS1337-LP	**1/3" DSP Super High Resolution Day-Night MJPEG IP camera 540 TVL**	**2GF1186-8AB**

CCIS1337-LP is a super high resolution day-night IP camera which provides up to 570 TV lines of resolution. The integrated Web Server allows the camera to be configured individually and video images to be viewed using an http browser. The IP camera uses the latest CCD/DSP technology to provide crisp images 24 hours a day even in unsatisfactory lighting conditions. CCIS1337-LP is equipped with a mechanical IR filter. The switch-over from colour to mono can be performed automatically depending on ambient light conditions or by an external signal using the switch input of the camera. The camera supports the PoE function. In conjunction with the appropriate network components (e.g. hub, switch, etc.) the operating voltage for the camera can be supplied directly over the network cable.

Television standard	PAL: 625 lines, 50 fields, 50 Hz (vertically), 15.625 Hz (horizontally)
Image sensor	1/3-inch interline CCD
Pixels	752 (H) x 582 (V)
Synchronisation	Internal: crystal / External: Line-lock
Picture format	QCIF (176 x 144): 25 ips CIF (352 x 288): 25 ips 4CIF (704 x 576): 10 ips
Horizontal resolution	Colour: 540 TVL Mono: 570 TVL @ Y/C
Minimum illumination	Colour: 0.4 Lux Mono: 0.08 Lux F1.4, AGC 30 dB at 50 IRE
S/N ratio	> 50 dB
Gain control	ON/TURBO/OFF, gain to 30 dB
Electronic shutter	Automatic: 1/50 s - 1/100000 s Manual: 1/50 s ... 1 / 10000 s Off: 1/50 s
White balance control	ATW1: (2500~6500 ° K); ATW2: (2500~10000 ° K) Manual: (2500~10000 ° K)
Back-light compensation	Centre 1, Centre 2, Up Half, Down Half, Door Low, Door High
Camera titles	16 characters
Lens mount	CS (C-mount adapter supplied)
Auto-iris lens control	Direct or video drive; 2 sockets: front section of side panel/rear
Infrared sensitive	880 nm, monochrome mode
Network connections	10baseT Ethernet or 100baseTX Fast Ethernet, auto-sensing, full/half duplex
Compression	MJPG
Protocols	ARP, BOOTP/DHCP, TCP/IP, HTTP, ICMP, SNMP, FTP and DNS
Security	Separate passwords for image access and system configuration
Tripod thread	A(1/4); ¼ inch on bottom and top
Dimensions (W x H x D)	72 x 63 x 122 mm
Operating temperature range	-10° C to +40° C, Humidity 95% max, no condensation
Weight	0.50 kg
Power requirements	12 V DC / 24 V AC, 50 Hz, Power over Ethernet (PoE)
Power consumption	Normal operation 9.66 W With moving IR filter (< 1 sec) 13 W

Type		Order No.
CFVA-IP	**MJPEG IP Module for Indoor Fixed Domes**	**2GF1086-8AL**

The IP module CFVA-IP is especially designed for use with the indoor dome cameras CFFB1310, CFFB1315, CFFC1310, CFFC1315, CFVB1415, CFVC1415 and CFVS1415. Existing dome camera systems can easily be upgraded to latest IP technology. The integrated Web Server allows MJPEG compressed live images to be viewed using an http browser (Microsoft Internet Explorer from version 5.5 with Java plug-in or Mozilla or Netscape from version 7.0). A live player for stand-alone solutions is supplied with the IP module. The live video images supplied by the device can be embedded in dedicated HTML pages without difficulty. The digital video streams can be saved directly using the digital video recorder SISTORE MX (from version V2.50).

Picture format	QCIF (176 x 144) CIF (352 x 288) 4CIF (704 x 576) (interlaced)
Network connections	10baseT Ethernet or 100baseTX Fast Ethernet, auto-sensing, full / half duplex
Security	Separate passwords for image access and system configuration
Protocols	ARP, BOOTP/DHCP, TCP/IP, HTTP, ICMP, SNMP, FTP and DNS
Installation	IP address configurable via ARP, BOOTP/DHCP, connection to twisted-pair RJ45 Ethernet.
Weight	0.40 kg
Power requirements	12 V DC / 24 V AC, 50 Hz
Power consumption	6 W

CVVA-IP	**MJPEG IP Module for Indoor Vandal Resistant Domes**	**2GF1185-8AG**

The IP module CVVA-IP is especially designed for use with the vandal-proof dome cameras CVVB1315, CVVC1315, CVVS1415. Existing fixed-dome camera systems can be easily upgraded to the latest IP technology. The integrated Web Server allows MJPEG compressed live images to be viewed using an http browser (Microsoft Internet Explorer from version 5.5 with Java plug-in or Mozilla or Netscape from version 7.0). A live player for stand-alone solutions is supplied with the IP module. The live video images supplied by the device can be embedded in dedicated HTML pages without difficulty. The digital video streams can be saved directly using the digital video recorder SISTORE MX (from version V2.50).

Picture format	QCIF (176 x 144) CIF (352 x 288) 4CIF (704 x 576) (interlaced)
Network connections	10baseT Ethernet or 100baseTX Fast Ethernet, auto-sensing, full / half duplex
Security	Separate passwords for image access and system configuration
Protocols	ARP, BOOTP/DHCP, TCP/IP, HTTP, ICMP, SNMP, FTP and DNS
Installation	IP address configurable via ARP, BOOTP/DHCP, connection to twisted-pair RJ45 Ethernet.
Weight	0.62 kg
Power requirements	12 V DC or 24 V AC, 50 Hz
Power consumption	6 W

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Type		Order No.
CCIx1345..	**1/3" Super High Resolution MJPEG / MPEG-4 IP Streaming Cameras**	**CCIx1345-LP..**

The CCIx1345 range is a true CCTV IP Security Camera range that combines the requirements of classic analogue CCTV cameras with the high performance, flexibility and IT-security of a modern Video-over-IP device. Thanks to hybrid technology, this camera range allows the upgrade of existing video installations to state-of-the-art IP systems. Features like Activity (Motion) detection, PTZ control, privacy zones, the integrated firewall, the 128 MB alarm image memory and email notification turn this IP camera into a true video security device.

Television standard	2:1 PAL interlace 50 Hz (vertically) 15.625 Hz (horizontally)
Pixels	752 (H) x 582 (V)
Synchronisation	Internal: crystal External: line lock (AC only)
Picture format	QCIF (176 x 144): max 25 ips CIF (352 x 288): max 25 ips 2CIF (704 x 288): max 25 ips 4CIF (704 x 576): max 25 ips
S/N ratio	50 dB (weighted, AGC switched off, aperture low)
Electronic shutter	Automatic: 1/50 s ~ 1/100000 sec. max.
White balance control	AUTO (2500~10000 °K), HOLD
Camera titles	max. 24 characters
Lens mount	CS-mount
Network connections	10 BaseT Ethernet or 100 BaseTX Fast Ethernet, auto-sensing, full/half duplex
Compression	MJPEG/MPEG-4
Protocols	TCP/IP, UDP/IP, DHCP, DNS, HTTP(S), RTP (RTCP, RTSP), SMTP, NTP, IGMP v2, UPnP
Security	Separate passwords for image access and system configuration
Tripod thread	A(1/4); ¼ inch on bottom and top (depth: 7mm)
Dimensions (W x H x D)	121.3 x 76 x 62.6 mm
Operating temperature range	-10° C to +50° C
Weight	0.50 kg
Power requirements	24 V AC, 50 Hz, Power over Ethernet (PoE) max. 500 mA

CCIS1345-LP	**1/3" Super High Resolution MJPEG / MPEG-4 Day-Night IP Streaming Camera**	**2GF1118-8HA**

As CCIx1345.. for technical details, but with the following differences:

Image sensor	1/3-inch CCD
Horizontal resolution	Colour: 540 lines
Minimum illumination	0.4 lux at F=1.2 (AGC on, 50 IRE video)
Gain control	Selectable: OFF, LOW, HIGH
Back-light compensation	Selectable: OFF, ON (AE mode)
Power consumption	Normal operation 6.0 W

Type		Order No.
CCIC1345-LP	**1/3" Super High Resolution MJPEG / MPEG-4 Color IP Streaming Camera** As CCIx1345.. for technical details, but with the following differences: Image sensor: 1/3-inch CCD Horizontal resolution: Colour: 540 lines Mono: 570 lines Minimum illumination: Colour: 0.4 lux at F=1.2 (AGC on, 50 IRE video) Mono: 0.1 lux at F=1.2 (AGC on, 50 IRE video) 0.01 lux at F=1.2 (AGC on, 50 IRE video, IR-Illumination) Gain control: Selectable: OFF, LOW, HIGH Back-light compensation: Selectable: OFF, ON (AE mode) Power consumption: Normal operation 6.5 W	**2GF1183-8KA**
CCIW1345-LP	**1/3" Super High Resolution MJPEG / MPEG-4 Day-Night Wide Dynamic IP Streaming Camera** As CCIx1345.. for technical details, but with the following differences: Image sensor: 1/3-inch Sony Double Density CCD Horizontal resolution: Colour (WD): 500 lines Mono (WD): 540 lines Minimum illumination: Colour: 0.4 lux at F=1.2 (AGC on, 50 IRE video) Mono: 0.1 lux at F=1.2 (AGC on, 50 IRE video) 0.01 lux at F=1.2 (AGC on, 50 IRE video, IR-Illumination) Gain control: Selectable: OFF, ON Back-light compensation: Selectable: OFF, ON (AE mode) Infrared sensitive: In night mode: 850-1000 nm Power consumption: Normal operation 7.0 W	**2GF1118-8HB**

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Type		Order No.
PSU230-12	**Plug Type Power Supply 230 V AC / 12 V DC** Step-down plug type power supply 230 V AC, 12 V DC. Supplied with 2 m DC cable with open end. Input voltage: 230 V AC, 50 Hz Output voltage: 12 V DC, 640 mA Connections: Input: European plug, output: open end Number of Pins: 2 Weight: 0.40 kg	**2GF1800-8BE**
CAPA2410-P230	**Plug Type Power Supply 230 V AC / 24 V AC** Plug type power supply 230 V AC, 24 V AC, 500 mA. Supplied with 2 m DC cable with open end. Input voltage: 230 V AC, 50 Hz Output voltage: 24 V AC, 500 mA Connections: Input: European plug, output: open end Number of Pins: 2 Weight: 0.30 kg	**2GF1800-8BJ**
CAPA2415-C230	**Indoor Power Supply 230 V AC / 24 V AC** Indoor power supply 230 V AC, 24 V AC, 60 W. Supplied with 1.5 m mains power cable with European plug and screw terminal for 24 V AC output. Input voltage: 230 V AC, 50 Hz Output voltage: 24 V AC, 2.5 A Connections: Input: 1.5 m cable with European plug, output: screw terminal Number of Pins: 2 Weight: 1.90 kg	**2GF1800-8BK**
CAPA2415-W230	**Outdoor Power Supply 230 V AC / 24 V AC** Outdoor power supply 230 V AC, 24 V AC, 60 W with IP 67 weather-proof rated, plastic outdoor housing. Cable entry via cable glands: mains power, 24 V AC (4 x M16). Input voltage: 230 V AC, 50 Hz Output voltage: 24 V AC Connections: Input: 3 pin spring type terminal, output: 3 x 2 pin spring type terminal Weight: 2.40 kg	**2GF1800-8BL**
WJB-12	**Weatherproof Junction Box IP65** For compact cameras, as transition-, junction- and distribution box. 2 x 3 power clips for control lines and video test connector (BNC), fitted in a weatherproof plastic housing. Power supply not included. Connections: 6 (2 x 3) BNC junction connections Protection rating: IP65 Weight: 1.65 kg	**2GF1803-8AC**

Accessories Cameras and Domes

Type		Order No.
CFFA-RS	**Remote Setup Kit for Fixed Domes CFxx and Vandal Domes CVxx including Remote Setup Software and Remote Adapter 0.5 m** This remote setup kit is used for comfortable remote setup of all fixed and vandal domes that support a remote setup feature.	**2GF1086-8AJ**
PSU12D	**PSU12D** Additional or replacement power supply unit, suitable for powering remote keyboards. Available in three input voltages to suit various supply conditions. Power requirements: 230 V AC Output voltage: 12 V DC, 500 mA Number of Pins: 2 Weight: 0.52 kg	**BPZ:80-194**
TX-CONTROL	**TX-CONTROL Control Interface for Bewator Telemetry Products** This product allows the control of Molynx Protocol telemetry products from an RS232 device, such as a PC. Molynx telemetry protocol is designed to be a high speed, real-time protocol, and many RS232 devices cannot meet the specifications required. The TX-Control provides an interface between, for example, a PC and a telemetry controlled product, by translating the Molynx protocol into a simplified protocol for the PC. Power requirements: 100 – 240 V AC, 50/60 Hz, 300 mA Protection rating: Indoor use only Weight: 1.30 kg	**BPZ:80-223**

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Lenses

The front of any CCTV system is a lens, often overlooked but a very important part of any system...

Provide the right view in a variety of security surveillance situations with these professional lenses that are easy to adjust. Focal-length and focus adjustments have screw-locks to ensure views remain as initially set.

Manual iris CS-mount lenses for use in applications with stable illumination levels. Also ideal for use with modern 1/3" CCD cameras featuring automatic electronic shuttering (AES).

Auto-iris CS-mount lenses direct drive (DC-type) suitable for use with modern cameras featuring internal auto-iris drive circuits. Particularly suitable for use with cameras surveying outdoor scenes or in situations where widely varying illumination levels are likely to occur.

- Zoom lenses feature accurate multi-turn potentiometers; for use in conjunction with pan/tilt heads and controllers that support "preset" automatic positioning
- Varifocal models include aspherical lenses, offering a compact size
- Specific range of varifocal lenses for use with day-night cameras

Fixed Focal Length Lenses

Type			Order No.
CLFM13..	**Manual iris** Lens with high-performance glass optics and manual iris mechanism. Professional lenses with screw locks to ensure images remain sharply focused. The technical details of these lenses are listed below:		**CLFM13..**
CLFM1212/12	**12.0 mm F1.2, 1/2" C**		**2GF1640-8AH**
	Focal length	12.0 mm	
	Maximum relative aperture	F1.2	
	Horizontal angle of view	29.7°	
	Minimum object distance	0.3 m	
	Focus type	Adjustable	
	Format	1/2" C-mount	
	Weight	0.0745 kg	
CLFM1314/2.8	**2.8 mm F1.4, 1/3" CS**		**2GF1661-8AL**
	Focal length	2.8 mm	
	Maximum relative aperture	F1.4	
	Horizontal angle of view	95.6°	
	Minimum object distance	0.2 m	
	Focus type	Adjustable	
	Format	1/3" CS-mount	
	Weight	0.0545 kg	
CLFM1312/4	**4.0 mm F1.2, 1/3 CS**		**2GF1661-8AM**
	Focal length	4.0 mm	
	Maximum relative aperture	F1.2	
	Horizontal angle of view	70.6°	
	Minimum object distance	0.25 m	
	Focus type	Adjustable	
	Format	1/3" CS-mount	
	Weight	0.0504 kg	
CLFM1312/6	**6.0 mm F1.2, 1/3" CS**		**2GF1661-8AN**
	Focal length	6.0 mm	
	Maximum relative aperture	F1.2	
	Horizontal angle of view	48.1°	
	Minimum object distance	0.3 m	
	Focus type	Adjustable	
	Format	1/3" CS-mount	
	Weight	0.0417 kg	

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Fixed Focal Length Lenses

Type		Order No.
CLFM1312/8	**8.0 mm F1.2, 1/3" CS**	**2GF1661-8AP**

Focal length	8.0 mm
Maximum relative aperture	F1.2
Horizontal angle of view	36.5°
Minimum object distance	0.3 m
Focus type	Adjustable
Format	1/3" CS-mount
Weight	0.0411 kg

CLFM1316/16	**16 mm F1.6, 1/3" CS**	**2GF1661-8AQ**

Focal length	16.0 mm
Maximum relative aperture	F1.6
Horizontal angle of view	17.6°
Minimum object distance	0.7 m
Focus type	Adjustable
Format	1/3" CS-mount
Weight	0.0395 kg

CLFD13..	**Auto-Iris, Direct Drive**	**CLFD13..**

Lens with high-performance glass optics, galvanometric direct drive, auto-iris mechanism and ND spot-filter - ideal for outdoor applications. Screw lock ensures images remain sharply focused. Supplied with fitted plug.
The technical details of these lenses are listed below:

CLFD1214/12	**12.0 mm F1.4, 1/2" C**	**2GF1642-8AT**

Focal length	12.0 mm
Focus type	Adjustable
Maximum relative aperture	F1.4
Horizontal angle of view	29.7°
Minimum object distance	0.2 m
Format	1/2" C-mount
Weight	0.0825 kg

CLFD1314/2.8	**2.8 mm F1.4, 1/3" CS**	**2GF1663-8AN**

Focal length	2.8 mm
Maximum relative aperture	F1.4
Horizontal angle of view	95.6°
Minimum object distance	0.2 m
Format	1/3" CS-mount
Weight	0.0633 kg

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Fixed Focal Length Lenses

Type			Order No.
CLFD1312/4	**4.0 mm F1.2, 1/3" CS**		**2GF1663-8AP**
	Focal length	4.0 mm	
	Maximum relative aperture	F1.2	
	Horizontal angle of view	70.6°	
	Minimum object distance	0.25 m	
	Format	1/3" CS-mount	
	Weight	0.0644 kg	
CLFD1312/6	**6.0 mm F1.2, 1/3" CS**		**2GF1663-8AQ**
	Focal length	6.0 mm	
	Maximum relative aperture	F1.2	
	Horizontal angle of view	48.1°	
	Minimum object distance	0.3 m	
	Format	1/3" CS-mount	
	Weight	0.0498 kg	
CLFD1312/8	**8.0 mm F1.2, 1/3" CS**		**2GF1663-8AR**
	Focal length	8.0 mm	
	Maximum relative aperture	F1.2	
	Horizontal angle of view	36.5°	
	Minimum object distance	0.3 m	
	Format	1/3" CS-mount	
	Weight	0.0495 kg	
CLFD1316/16	**16 mm F1.6, 1/3" CS**		**2GF1663-8AS**
	Focal length	16.0 mm	
	Maximum relative aperture	F1.6	
	Horizontal angle of view	17.6°	
	Minimum object distance	0.7 m	
	Focus type	Adjustable	
	Format	1/3" CS-mount	
	Weight	0.0475 kg	

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Varifocal Length Lenses

Type		Order No.
CLVM13..	**Manual Iris** Lens with high-performance glass optics for compact size with manual iris. Focal length and focus adjustments have screw-locks to ensure views remain as initially set. Supplied with fitted plug. The technical details of these lenses are listed below:	**CLVM13..**
CLVM1314/3.5-8	**3.5 – 8 mm F1.4 1/3 CS**	**2GF1664-8AG**

Format	1/3" CS-mount
Focal length	3.5 – 8 mm
Focus type	Adjustable
Maximum relative aperture	F1.4
Horizontal angle of view	35 – 73.8°
Minimum object distance	0.3 m
Weight	0.0898 kg

CLVM1314/2.5-10	**2.5 – 10 mm F1.4 1/3 CS**	**2GF1664-8AK**

Format	1/3" CS-mount
Focal length	2.5 – 10 mm
Focus type	Adjustable
Maximum relative aperture	F1.4
Horizontal angle of view	28.3 – 105.8°
Minimum object distance	0.3 m
Weight	0.0808 kg

CLVM1325/5-50	**Manual Iris**	**2GF1664-8AN**

Focal length	5 – 50 mm
Focus type	Adjustable
Maximum relative aperture	F1.4 – C
Horizontal angle of view	5.6 – 53.6°
Minimum object distance	0.3 m
Weight	0.20 kg

CLVM1318/7-70	**7 – 70 mm F1.8 1/3" CS**	**2GF1664-8AJ**

Format	1/3" CS-mount
Focal length	7 – 70 mm
Focus type	Adjustable
Maximum relative aperture	F1.8
Horizontal angle of view	4.2 – 40.1°
Minimum object distance	0.3 – 1.0 m
Weight	0.1995 kg

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Varifocal Length Lenses

Type		Order No.
CLVD13..	**Auto-Iris, Direct Drive** Lens with high-performance glass optics for compact size, galvanometric direct, drive auto-iris mechanism. Focal length and focus adjustments have screw-locks to ensure views remain as initially set. Supplied with fitted plug. The technical details of these lenses are listed below:	**CLVD13..**
CLVD1314/3.5-8	**3.5 – 8 mm F1.4 1/3" CS**	**2GF1667-8AJ**
	Format: 1/3" CS-mount Focal length: 3.5 – 8 mm Focus type: Adjustable Horizontal angle of view: 35 – 73.8° Minimum object distance: 0.3 m Weight: 0.0766 kg	
CLVD1314/2.5-10	**2.5 – 10 mm F1.4 1/3" CS**	**2GF1667-8AM**
	Format: 1/3" CS-mount Focal length: 2.5 – 10 mm Focus type: Adjustable Horizontal angle of view: 28.3 – 105.8° Minimum object distance: 0.3 m Weight: 0.0805 kg	
CLVD1325/5-50	**Auto-Iris, Direct Drive** Focal length: 5 – 50 mm Focus type: Adjustable Maximum relative aperture: F1.4 – C Horizontal angle of view: 5.6 – 53.6° Minimum object distance: 0.3 m Weight: 0.20 kg	**2GF1667-8AU**
CLVD1318/7-70	**7 – 70 mm F1.8 1/3" CS**	**2GF1667-8AL**
	Format: 1/3" CS-mount Focal length: 7 – 70 mm Focus type: Adjustable Aperture: Horizontal angle of view: 4.2 – 40.1° Minimum object distance: 0.3 – 1.0 m Weight: 0.2015 kg	

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Varifocal Length Lenses

Type		Order No.
CLVD1318..	**Auto-Iris, Direct Drive for Use with Day-Night Cameras** Lens with high-performance aspherical glass optics for compact size, galvanometric direct drive, auto-iris mechanism and infrared correction - ideal for outdoor applications and designed for use with day-night cameras to ensure there is no focal shift when switching from colour by day, to monochrome by night. Focal length and focus adjustments have screw-locks to ensure views remain as initially set. Supplied with fitted plug. The technical details of these lenses are listed below:	**CLVD1318..**
CLVD1218/4-12	**4 – 12 mm F1.2 1/2" VF, AS, IR**	**2GF1651-8AB**

Format	1/2" CS-mount
Focus type	Adjustable
Focal length	4 – 12 mm
Horizontal angle of view	31.2 – 93.6°
Maximum relative aperture	F1.2 – 360
Minimum object distance	0.3 m
Weight	0.065 kg

CLVD1218/10-40	**10 – 40 mm F1.4 1/2" VF, AS, IR**	**2GF1651-8AA**

Format	1/2" CS-mount
Focus type	Adjustable
Focal length	10 – 40 mm
Horizontal angle of view	9.2 – 37.5°
Maximum relative aperture	F1.4 – 360
Minimum object distance	0.5 m
Weight	0.087 kg

CLVD1318/3-8	**3 – 8 mm F1.0 1/3" VF, AS, IR**	**2GF1667-8AQ**

Format	1/3" CS-mount
Focal length	3 – 8 mm
Horizontal angle of view	36.2 – 90.8°
Maximum relative aperture	F1.0 – 360
Minimum object distance	0.2 m
Weight	0.047 kg

Varifocal Length Lenses

Type		Order No.
CLVD1318/2.8-11	**2.8 – 11 mm F1.4 1/3" VF, AS, IR**	**2GF1667-8AR**

Format	1/3" CS-mount
Focal length	2.8 – 11 mm
Horizontal angle of view	26.2 – 97.4°
Maximum relative aperture	F1.4 – 360
Minimum object distance	0.3 m
Weight	0.087 kg

CLVD1318/10-40	**10 – 40 mm F1.4 1/3" VF, AS, IR**	**2GF1667-8AS**

Format	1/3" CS-mount
Focal length	10 – 40 mm
Horizontal angle of view	7.0 – 27.5°
Maximum relative aperture	F1.4 – 360
Minimum object distance	0.5 m
Weight	0.077 kg

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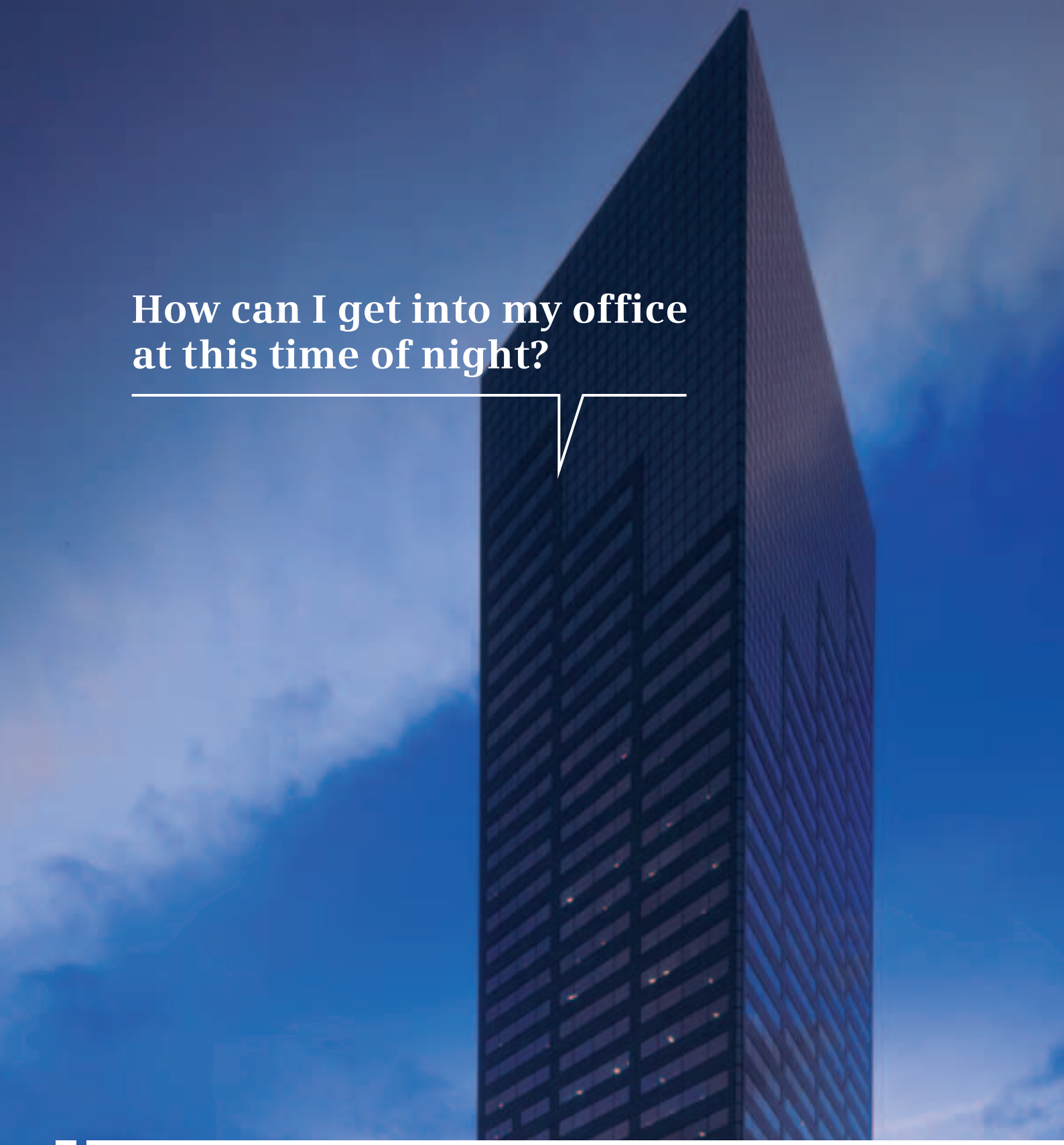
Type		Order No.
CLPD1312/6-72	**Auto-Iris, Direct Drive, Presets, 6 – 72 mm F 1.2 1/3" CS** CS-mount, motor zoom lens with 5K Ohm zoom and focus feedback potentiometers for use as presets, high-performance glass optics, galvanometric direct drive, auto-iris mechanism and ND spot-filter. Supplied with fitted iris plug. Format: 1/3" CS-mount Focal length: 6 – 72 mm Focus type: Adjustable Horizontal angle of view: 43.7° Minimum object distance: 1.5 m Weight: 0.57 kg	**2GF1666-8AD**
CLZD13..	**Auto-Iris, Direct Drive** 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. The technical details of these lenses are listed below:	**CLZD13..**
CLZD1314/6-36	**Auto-Iris, Direct Drive 6 – 36 mm F 1.2 1/3" CS** Format: 1/3" CS-mount Focus type: Adjustable Focal length: 6 – 36 mm Horizontal angle of view: 43.6° Minimum object distance: 1.3 m Weight: 0.302 kg	**2GF1665-8AF**
CLZD1312/6-72	**Auto-Iris, Direct Drive 6 – 72 mm F 1.2 1/3" CS** Format: 1/3" CS-mount Focus type: Adjustable Focal length: 6 – 72 mm Horizontal angle of view: 43.7° Minimum object distance: 1.5 m Weight: 0.57 kg	**2GF1665-8AG**



How can I get into my office at this time of night?

Using interoperable access control, intrusion detection and video surveillance systems

Access control rights allow you in, then the CCTV cameras trigger to start recording as you walk through, the PIR zones are also deactivated in just the area you have access – all displayed and controlled via one screen.

www.siemens.com/interoperability

SIEMENS

Housings and Mounts

For all seasons, a range of camera housings...

A complete range of IP66 camera housings together with a full range of accessories, brackets and spare parts tailored to the customer's need. All of these items adhere to high quality and reliability standards to support a safe and easy installation.

High performance aluminium camera housings complete with sunshield. Ideal for cameras fitted with either fixed, varifocal or zoom lenses. 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.

The protective housing is suited for permanent mounting with the available wall arms or for direct mounting on a pan and tilt head. The housing cover is easy to remove, facilitating on-site installation and cabling of the camera with lens. Space is provided in the housing for installation of a twisted pair transmitter or fibrer optic module.

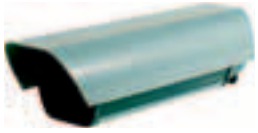
Outdoor Housings

Type		Order No.
CHSM2510	**Camera Housing 300 mm, IP66, 1xM12, 1x M16, 1x M20**	**2GF1705-8NA**

A stylish-looking, general purpose aluminium camera housing complete with anti-reflective ABS polymer sunshield, plexi-glass face-plate with polycarbonate front and rear. Ideal for any Siemens camera fitted with any Siemens monofocal or varifocal lens. Three cable entries provide for power, video, control cable (RS485 for camera etc.) or system cable. The outer body of the housing is easily removed, allowing in-situ adjustment of camera, lens and cabling. Included is a board for easy connecting on all cable and a twisted pair transmitters. Supplied, as standard, with a positive temperature coefficient heater element and thermostat. Does not include power supply.

Heater rating	110 – 230 V AC, 40 W
Heater turn-on	14° C ± 3° C
Heater turn-off	20° C ± 3° C
Cable entry	1 x M12, 1 x M16, 1 x M20
Finish	Centre section: extruded and die-cast aluminium, front and rear sections: robust plastic
Colour	Silver (RAL9006)
Protection rating	IP66
Usable volume (W x H x D)	77 x 67 x 250 mm
Dimensions (W x H x D)	137 x 129 x 466 mm
Weight	3.20 kg

CHSL2610 — **Camera Housing 320 mm, IP66, 1xM12, 1x M16, 1x M20** — **2GF1705-8PA**



A stylish-looking, general purpose complete all-aluminium camera housing with aluminium sunshield and glass face plate. Ideal for any Siemens camera fitted with any Siemens monofocal, varifocal or zoom lens. Three cable entries provide for power, video, control cable (zoom lens, RS485 for camera etc.) or system cable. The outer body of the housing is easily removed, allowing in-situ adjustment of camera, lens and cabling. Included is a connection board for easy connecting on all cable and a twisted pair transmitters and a bracket for easy mounting of a fibre optic transmitter.
Supplied, as standard, with a positive temperature coefficient heater element and thermostat. Does not include power supply.

Heater rating	110 – 230 V AC, 40 W
Heater turn-on	14° C ± 3° C
Heater turn-off	20° C ± 3° C
Cable entry	1 x M12, 1 x M16, 1 x M20
Finish	Extruded and die-cast aluminium
Colour	Silver (RAL9006)
Protection rating	IP66
Usable volume (W x H x D)	90 x 85 x 260 mm
Dimensions (W x H x D)	144 x 141 x 470 mm
Weight	3.20 kg

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Type		Order No.
CHM	**Camera Housing 320 mm, IP66, 2 x PG9; 1x PG16**	**2GF1705-8EA**

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.

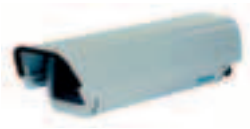
Heater rating	110 – 265 V AC, 7 W
Heater turn-on	16° C ± 3° C
Heater turn-off	20° C ± 3° C
Cable entry	2 x PG9, 1 x PG16
Finish	Centre section: extruded and die-cast aluminium, front and rear sections: robust plastic
Colour	Off-white (RAL9002)
Protection rating	IP66
Dimensions (W x H x D)	133 x 124.6 x 473 mm
Weight	2.80 kg

CHH	**Camera Housing 320 mm, IP66, Quick Connector**	**2GF1705-8FA**

Suitable for indoor and outdoor mounting. Includes sunshield with gutter, 3 PG screwed glands, camera mounting plate with anti-slip surface, and thermostatic switch. With internal distribution board and internal multipoint connector. Service and maintenance is simplified significantly and the housing is much more mobile. Does not include power supply.

Heater rating	110 – 265 V AC, 7 W
Heater turn-on	16° C ± 3° C
Heater turn-off	20° C ± 3° C
Cable entry	2 x PG9, 1 x PG16
Finish	Centre section: extruded and die-cast aluminium, front and rear sections: robust plastic
Colour	Off-white (RAL9002)
Protection rating	IP66
Dimensions (W x H x D)	133 x 124.6 x 473 mm
Weight	2.90 kg

ECH-M	**Camera Housing 300 mm, IP66, 2 x PG9**	**2GF1705-8JA**



Suitable for indoor and outdoor mounting. Robust aluminium 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	110 – 230 V AC, 40 W
Heater turn-on	14° C ± 3° C
Heater turn-off	20° C ± 3° C
Cable entry	2 x PG9
Finish	Extruded and die-cast aluminium
Colour	Off-white (RAL9002)
Protection rating	IP66
Dimensions (W x H x D)	105 x 95 x 355 mm
Weight	1.90 kg

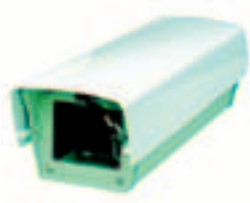
Outdoor Housings

Type		Order No.
ECH-B	**Camera Housing 320 mm, IP66, 3 x PG9**	**2GF1705-8KA**

Suitable for indoor and outdoor mounting. Robust aluminium 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	110 – 230 V AC, 40 W
Heater turn-on	14° C ± 3° C
Heater turn-off	20° C ± 3° C
Cable entry	1 x PG11, 2 x PG9
Finish	Extruded and die-cast aluminium
Colour	Off-white (RAL9002)
Protection rating	IP66
Usable volume (W x H x D)	90 x 85 x 260 mm
Dimensions (W x H x D)	144 x 141 x 470 mm
Weight	3.20 kg

HS01 — **Large Connoisseur Housing 230 V AC** — **BPZ:80-142**



Ideal for most applications, especially for larger length cameras and lenses. Suitable for outdoor use. Extruded aluminium section construction. Sunshield is adjustable along the length of the housing body. Hinge retained body allows easy access for maintenance. Adjustable mounting plate to suit most camera/lens assemblies. Demister & sunshield fitted as standard, optional wiper available.

Power requirements	230 V AC, 50/60 Hz
Colour	Housing body: Polyester powder-coat RAL7032 leatherette full gloss. Sunshield: Polyester powdercoat hipca white smooth full gloss.
Cable entry	1 x M25 2 x PG 13,5 1 x M16
Dimensions (W x H x D)	Housing: 155 x 148 x 627 mm Sunshield: 560 x 168 mm
Usable volume (W x H x D)	125 x 100 x 400 mm
Finish	Aluminium extrusion (housing body & sunshield), glass filled polyester thermoset (front & rear caps)
Heater turn-on	14 °C
Heater turn-off	20 °C
Heater rating	7 Watt nominal, 25 Watts max. PTC resistor heating element.
Protection rating	IP66
Weight	6.0 kg

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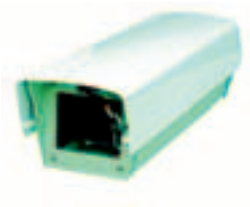
Type		Order No.
HS01/L	**Large Connoisseur Housing 24 V AC**	**BPZ:80-143**



Ideal for most applications, especially for larger length cameras and lenses. Suitable for outdoor use. Extruded aluminium section construction. Sunshield is adjustable along the length of the housing body. Hinge retained body allows easy access for maintenance. Adjustable mounting plate to suit most camera/lens assemblies. Demister & sunshield fitted as standard, optional wiper available.

Power requirements	24 V AC, 50/60 Hz
Colour	Housing body: Polyester powder-coat RAL7032 leatherette full gloss. Sunshield: Polyester powdercoat hipca white smooth full gloss.
Dimensions (W x H x D)	Housing: 155 x 148 x 627 mm Sunshield: 560 x 168 mm
Usable volume (W x H x D)	125 x 100 x 400 mm
Finish	Aluminium extrusion (housing body & sunshield), glass filled polyester thermoset (front & rear caps)
Heater turn-on	14 °C
Heater turn-off	20 °C
Heater rating	7 W nominal, 25 W max. PTC resistor heating element.
Protection rating	IP66
Weight	6.0 kg

HS02	**Compact Connoisseur 230 V AC**	**BPZ:80-148**

An addition to the Connoisseur range, the Compact Connoisseur offers attractive styling with attractive features. Enables mounting with a bracket or with pan/tilt heads.

Power requirements	230 V AC , 50/60 Hz
Colour	Housing Body: Polyester Powder-coat RAL7032 Leatherette Full Gloss. Sunshield: Polyester Powdercoat Hipca White Full Gloss.
Cable entry	2 x M16 1 x PG 13,5
Dimensions (W x H x D)	Housing: 133 x 125 x 454 mm
Usable volume (W x H x D)	85 x 80 x 225 mm
Finish	Pressure die-cast aluminium with extruded aluminium body and sun-shield.
Heater turn-on	14 °C
Heater turn-off	20 °C
Heater rating	7 W nominal, 25 W max. PTC resistor heating element.
Protection rating	IP67
Weight	2.52 kg

Outdoor Housings

Type		Order No.
HS02B	**Compact Connoisseur with Integral Bracket 230 V AC** An addition to the Connoisseur range, the Compact Connoisseur offers attractive styling with attractive features. The taperlock positional adjustment system, and integral cable management system make this the only real choice where style and ease of installation are concerned. Power requirements: 230 V AC, 50/60 Hz Colour: Housing Body & Bracket: Polyester Powdercoat RAL7032 Leatherette Finish Full Gloss. Sunshield: Polyester Powdercoat Hipca White Smooth Finish Full Gloss. Dimensions (W x H x D): Housing: 133 x 125 x 458 mm Bracket: 133 x 194 x 169 mm Usable volume (W x H x D): 85 x 80 x 225 mm Finish: Pressure die-cast aluminium with extruded aluminium body and sun-shield. Heater turn-on: 14 °C Heater turn-off: 20 °C Heater rating: 7 W nominal, 25 W max. PTC resistor heating element. Protection rating: IP67 Weight: 3.54 kg	**BPZ:80-149**
HS02B/L	**Compact Connoisseur with Integral Bracket 12/24 V AC** An addition to the Connoisseur range, the Compact Connoisseur offers attractive styling with attractive features. The taperlock positional adjustment system, and integral cable management system make this the only real choice where style and ease of installation are concerned. Power requirements: 12 / 24 V AC Colour: Housing Body & Bracket: Polyester Powdercoat RAL7032 Leatherette Finish Full Gloss. Sunshield: Polyester Powdercoat Hipca White Smooth Finish Full Gloss. Dimensions (W x H x D): Housing: 133 x 125 x 458 mm Bracket: 133 x 194 x 169 mm Usable volume (W x H x D): 85 x 80 x 225 mm Finish: Pressure die-cast aluminium with extruded aluminium body and sun-shield. Heater turn-on: 14 °C Heater turn-off: 20 °C Heater rating: 7 W nominal, 25 W max. PTC resistor heating element. Protection rating: IP67 Weight: 3.54 kg	**BPZ:80-150**

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Type		Order No.
HS03B	**Small Connoisseur with BH15 Bracket, 100 - 230 V AC** The smallest version of the HS housing range for compact installation. Supplied with the new BH15 wall bracket.	**BPZ:80-153**

Power requirements	230 V AC, 50/60 Hz
Colour	Housing Body: Polyester Powder-coat RAL7032 Leatherette Full Gloss. Sunshield: Polyester Powder-coat Hipca White Full Gloss.
Cable entry	1 x cable gland (PG 13,5), 2 x cable glands (M16)
Dimensions (W x H x D)	133 x 125 x 454 mm Glass: 76 x 66 mm
Usable volume (W x H x D)	85 x 80 x 180 mm
Finish	Pressure die-cast aluminium with extruded aluminium body and sun-shield.
Heater turn-on	14 °C
Heater turn-off	20 °C
Heater rating	7 W nominal, 25 W max. PTC resistor heating element.
Protection rating	IP67
Weight	2.52 kg

HS03B/L	**Small Connoisseur with BH15 Bracket, 12 - 24 V AC** The smallest version of the HS housing range for compact installation. Supplied with the new BH15 wall bracket.	**BPZ:80-154**

Power requirements	24 V AC, 50/60 Hz
Colour	Housing Body: Polyester Powder-coat RAL7032 Leatherette Full Gloss. Sunshield: Polyester Powder-coat Hipca White Full Gloss.
Cable entry	1 x cable gland (PG 13,5), 2 x cable glands (M16)
Dimensions (W x H x D)	133 x 125 x 454 mm Glass: 76 x 66 mm
Usable volume (W x H x D)	85 x 80 x 180 mm
Finish	Pressure die-cast aluminium with extruded aluminium body and sun-shield.
Heater turn-on	14 °C
Heater turn-off	20 °C
Heater rating	7 W nominal, 25 W max. PTC resistor heating element.
Protection rating	IP67
Weight	2.52 kg

Housing Mounts

Type		Order No.
CHBC2010	**Cable Management Bracket for CHSL2610/CHSM2510**	**2GF1705-8LF**

Aluminium wall mount with integral swivel-tilt joint. The housing position is secured with a single clamping/adjustment bolt.

Arm length	204 mm
Dimensions (W x H x D)	204 x 80 x 120 mm
Colour	Silver (RAL9006)
Finish	Epoxy powder-coat
Load rating	25 kg
Weight	0.60 kg

CHBS2310 — **Bracket for CHSL2610/CHSM2510** — **2GF1705-8LE**

Aluminium wall mount with integral swivel-tilt joint. The housing position is secured with a single clamping/adjustment bolt.

Arm length	227 mm
Dimensions (W x H x D)	227 x 75.4 x 86 mm
Colour	Silver (RAL9006)
Finish	Epoxy powder-coat
Load rating	25 kg

CHBA0111 — **Corner-Adapter for CHBC2010/CHBS2310 Mounts** — **2GF1705-8LG**

Aluminium adapter to enable the CHBC2010 and CHBS2310 housing wall-mount to be fitted to a corner. Provided complete with stainless-steel fixtures tures to attach the adapter to a corner and the mount to the adapter.

Dimensions (W x H x D)	120 x 130 x 215 mm
Colour	Silver (RAL9006)
Finish	Epoxy powder-coat
Load rating	25 kg
Weight	1.1 kg

CHBA0211 — **Pole-Adapter for CHBC2010/CHBS2310 Mounts** — **2GF1705-8LH**

Aluminium adapter to enable the CHBC2010 and CHBS2310 housing wall-mount to be fitted to round poles and posts. Provided complete with stainless-steel fixtures to attach the adapter to a pole and the mount to the adapter.

Dimensions (W x H)	110 x 175 mm
Colour	Silver (RAL9006)
Finish	Epoxy powder-coat
Load rating	25 kg
Weight	1.1 kg

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Type		Order No.
CHBP1810	**Pedestal-Mount for CHSM2510/CHSL2610** 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 fixtures to attach the housing to the mount. Arm length: 185 mm Dimensions (W x H x D): 121 x 121 x 185 mm Colour: Silver (RAL9006) Finish: Epoxy powder-coat Load rating: 25 kg Weight: 1.0 kg	**2GF1705-8LJ**
WMB-HM-HH	**Wall Mount Bracket for CHM, CHH** For mounting a CHM/CHH housing on a vertical surface. Arm length: 226 mm Dimensions (W x H x D): 150 x 355 x 205 mm Colour: Off-white (RAL9002) Finish: Cast aluminium Load rating: 8 kg Weight: 1.50 kg	**2GF1705-8GB**
WMB-S-M-B	**Bracket for ECH-B / ECH-M** Aluminium wall mount with integral swivel-tilt joint and internal cable channel for secure cabling from the wall, directly into the camera housing through the bracket, ensuring no visible cables. The housing position is secured with a single clamping/adjustment bolt. Arm length: 227 mm Dimensions (W x H x D): 227 x 75.4 x 86 mm Colour: Off-white (RAL9002) Finish: Epoxy powder-coat Load rating: 25 kg Weight: 0.50 kg	**2GF1705-8LB**
HMB-PH	**Mounting Block** For installation of a protective housing on a horizontal or inclined surface, on a wall bracket or pole bracket. Dimensions (W x H x D): 58 x 70 x 61 mm Colour: Matt black Finish: Cast aluminium Load rating: 30 kg Weight: 0.25 kg	**2GF1710-8AW**

Housing Mounts

Type		Order No.
VCH910	**Ceiling Mount Bracket for ECH-B/ECH-M** Aluminium ceiling mount with internal cable channel and integral housing, swivel-tilt joint. The housing position is secured with a single fixture. Three fixing holes on the base-plate enable stable mounting on flat surfaces. Provided complete with stainless-steel fixtures to attach the housing to the mount. Arm length: 390 mm Dimensions (W x H x D): 170 x 255 x 390 mm Colour: Off-white (RAL9002) Finish: Epoxy powder-coat Load rating: 25 kg Weight: 1.78 kg	**GBQ:A5383360001**
VCH992	**Pedestal-Mount ECH-B/ECH-M** 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 fixtures to attach the housing to the mount. Arm length: 185 mm Dimensions (W x H x D): 121 x 121 x 185 mm Colour: Off-white (RAL9002) Finish: Epoxy powder-coat Load rating: 25 kg Weight: 0.63 kg	**GBQ:A5383490001**
VCH990	**Pole-Adapter for VCH900, VPT900 Mounts** 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 fixtures to attach the adapter to a pole and the mount to the adapter. Dimensions (W x H): 110 x 175 mm Colour: Off-white (RAL9002) Finish: Epoxy powder-coat Load rating: 50 kg Weight: 1.28 kg	**GBQ:A5383520001**
BH15	**BH15 Swivel Bracket 15 kg Rated** Fits onto the HS01 & HS02 Camera Housings. This bracket utilises the extrusion features of the housing to provide a slide and lock mounting to the bracket. Dimensions (W x H x D): 50 x 85 x 280 mm Load rating: Max. Load 15 kg Finish: Die-cast aluminium Weight: 0.70 kg	**BPZ:80-105**

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Type		Order No.
BA01C	**BA01C Corner Mount Adaptor**	**BPZ:80-100**

A corner mount adaptor which allows the standard fixed brackets to be mounted on the corner of buildings. The design of the adaptor spreads the load over a large area. A typical brackets which can be mounted to this adaptor is e.g. the BP40. The unobtrusive and simple design allows the simple and effective installation of CCTV equipment on the corner of buildings. Corner mounting allows an excellent viewpoint to be achieved from a CCTV installation.

Colour	Polyester powdercoat RAL7032 leatherette full gloss
Dimensions (Ø x H)	
Load rating	75 kg
Finish	10 SWG mild steel
Weight	1.70 kg

BHC02	**BHC02 Ceiling Mount Bracket for HS02**	**BPZ:80-107**

A ceiling mount bracket casting which can be used with the HS02B and HS02B/L camera housing. The casting replaces the standard casting and is bought as an after market add-on. The bracket is suitable for indoor and outdoor use.

Colour	Painted polyester powdercoat RAL7032 leatherette full gloss
Finish	Cast aluminium
Weight	0.60 kg

Spares Housings and Mounts

Type		Order No.
WI01AB	**WI01AB Spare Wiper** Spare wiper arm and blade for HS01 and FH07 housings. Protection rating: IP66 Weight: 0.1 kg	**BPZ:80-242**

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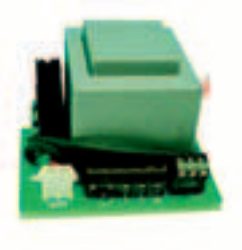
Type		Order No.
CHPA2410	**Power Supply 24 V AC, 400 mA for CHSM2510/CHSL2610/ECH-B** Step-down power supply designed to be mounted within CHSM2510 and CHSL2610 housings to provide 24 V AC power to the camera. Input rating: 230 V AC ± 5% Output rating: 9.6 VA Frequency: 50 Hz Input voltage: 230 V AC ± 5% Output voltage: 24 V AC ± 5% Ambient temperature, storage: 45° C Weight: 0.40 kg	**2GF1705-8GH**
CHPD1210	**Power Supply 12 V DC, mA for CHSM2510/CHSL2610/ECH-B** Step-down power supply designed to be mounted within CHSM2510 and CHSL2610 housings to provide 12 V DC power to the camera. Frequency: 50-60 Hz Fuse: Short circuit protection Input voltage: 90 – 265 V AC Weight: 0.14 kg	**2GF1705-8GG**
PSU12-CHM/CHH	**PSU 12 V DC Inside Housing for CHM/CHH** Step-down power supply designed to be mounted within CHM and CHH housings to provide 12 V DC power to the camera. Input rating: 230 V AC Output rating: 12 V DC, 600 mA stabilized Heating connection: 230 V AC, 100 mA max. Dimensions (W x H x D): 96 x 97.5 x 49 mm Weight: 0.03 kg	**2GF1705-8GA**
PSU24-CHM/CHH 	**PSU 24 V AC Inside Housing CHM/CHH** Step-down power supply designed to be mounted within CHM and CHH housings to provide 24 V DC power to the camera. Input rating: 230 V AC Output rating: 24 V AC Heating connection: 230 V AC / 100 mA max. Dimensions (W x H x D): 96 x 72 x 41 mm Weight: 0.20 kg	**2GF1705-8GE**
PSU12/24-CHM/CHH 	**PSU 12 V DC, 24 V AC Inside Housing CHM/CHH** Step-down power supply designed to be mounted within CHM and CHH housings to provide 12 V DC power to the camera. Dimensions (W x H x D) Input rating: 230 V AC Output rating: 12 V DC, 600 mA, 24 V AC, 100 mA Heating connection: 230 V AC, 100 mA max. Weight: 0.30 kg	**2GF1705-8GF**

Accessories Housings and Mounts

Type		Order No.
PSU12-ECH/S/M	**PSU 12 V DC Inside Housing for ECH-S/M** Step-down power supply designed to be mounted within ECH-S/M,VCH200/210 housings to provide 12 V DC power to the camera. Input rating: 230 V AC Output rating: 12 V DC, 400 mA Weight: 0.08 kg	**2GF1705-8LA**
PSU24-ECH/S/M	**PSU 24 V DC Inside Housing for ECH-S/ECH-M** Step-down power supply designed to be mounted within ECH-S/M,VCH200/210 housings to provide 12 V DC power to the camera. Input rating: 230 V AC Output rating: 24 V AC, 400 mA Weight: 0.20 kg	**2GF1705-8LD**
MT2WT-ECH	**Mounting 2WT 2-Wire Transmitter ECH-M/B** Mounting set for fitting the SMD two-wire transmitter in the camera to the protective housing ECH-M / ECH-B. Weight: 0.03 kg	**2GF1705-8LC**
CHHA2410	**Replacement Heater Kit 24 V AC** Heater Kit for CHSM2510 & CHSL2610 housings. Weight: 0.11 kg	**2GF1705-8GJ**
CHHM2310	**Replacement Heater Kit 230 V AC** Heater Kit for CHSM2510 & CHSL2610 housings. Weight: 0.11 kg	**2GF1705-8GK**
VCH993-230	**Replacement Heater for ECH M, ECH S, 230 V AC** Positive temperature coefficient heater element with thermostat for VCH200/210 housings. Heater turn-off: 20° C ± 3° C Heater turn-on: 14° C ± 3° C Heater rating: 110 – 230 V AC, 40 W Weight: 0.10 kg	**GBQ:A5572360001**

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Accessories Housings and Mounts

Type		Order No.
VCH993-24	**Replacement Heater for ECH M, ECH S, 24 V AC** Positive temperature coefficient heater element with thermostat for VCH400 housing. Heater turn-off: 20° C ± 3° C Heater turn-on: 14° C ± 3° C Heater rating: 12 / 24 V DC, V AC, 20 W Weight: 0.10 kg	**GBQ:A5572490001**
VCH994-230	**Replacement Heater Kit for ECH-B, 230 V AC** Positive temperature coefficient heater element with thermostat for VCH400 housing. Heater turn-off: 20° C ± 3° C Heater turn-on: 14° C ± 3° C Heater rating: 110 – 230 V AC, 40 W Weight: 0.10 kg	**GBQ:A5572520001**
VCH994-24	**Replacement Heater Kit for ECH-B, 24 V AC** Positive temperature coefficient heater element with thermostat for VCH400 housing. Heater turn-off: 20° C ± 3° C Heater turn-on: 14° C ± 3° C Heater rating: 12 / 24 V DC, V AC, 20 W Weight: 0.10 kg	**GBQ:A5572650001**
WI01/L	**WI01/L Wiper Kit for HS01/L Housing, 24 V AC** Wiper kit for the HS01/L Super Connoisseur camera housings. These kits can be used to convert housings without wipers. They can also be used as replacement parts for HS01/L Super Connoisseur Wiper units. Power requirements: 24 V AC, 50 Hz Power consumption: 200 mA Protection rating: IP66 Weight: 0.70 kg	**BPZ:80-241**
WI01	**WI01 Wiper Kit for HS01 Housing, 230 V AC** Wiper kit for the HS01 Super Connoisseur camera housings. These kits can be used to convert housings without wipers. They can also be used as replacement parts for HS01 Super Connoisseur Wiper units. Power requirements: 230 V AC, 50 Hz Power consumption: 20 mA Protection rating: IP66 Weight: 0.74 kg	**BPZ:80-240**

Speed domes...

...for the best 360° view.

Pan-tilt and Telemetry Equipment

Telemetry equipment designed for buildings

A complete range of telemetry receivers connecting to pan-tilt head devices, operating at fixed or variable speeds and offering different maximum loads. The range is designed for both internal and external use. Models allow simple connection and control via matrix switching systems and keyboards, including setting and calling preset positions, and variable speed control.

Pan/Tilt Telemetry Controller

Type		Order No.
CKA3210	**Fixed Speed PTZ Controller, No Joystick**	**2GF2400-8EA**

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

Control	Fixed speed telemetry functions, 35 keys on membrane keyboard
Display elements	Multi-color LED (red, orange, green)
Function keys	10
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) 2-pin power supply connector
Housing	Aluminium, painted RAL7016 with plastic side panels
Protection rating	IP40
Dimensions (W x H x D)	255 x 50 x 170 mm
Power requirements	12 to 13.2 V DC
Power consumption	2.4 W
Weight	0.90 kg

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Type		Order No.
CKA4820	**Variable Speed PTZ Controller, with Joystick**	**2GF2400-8EC**

The CKA4820 keyboard is a stand-alone control and parameterisation unit for video surveillance systems with the comfort of an LCD display for setup and a proportional, variable-speed joystick for pan, tilt and zoom control. The varied interfaces and functions result in make versatile system applications possible. The unit can be used as remote keyboard for the SIMATRIX 164, 648, Neo and SYS video matrix, SISTORE AX and for controlling several PTZ or speed domes in a point-to-point or star configuration. The CKA4820 keyboard can control peripheral units according to the SCU or CCDA protocol. Parameterisation using the durable rubber keys on the keyboard is possible for peripheral units with on-screen display function. The unit features user-friendly operation, and has a compact design. The unit comes without a power supply.

Control	Variable speed joystick (3 axis), 31 keys on keyboard
Display elements	2 Line LCD display with backlight, Multi-color LED (red, orange, green)
Function keys	10
Serial interfaces	1 x control unit interface with two physical connections 1 x telemetry interface with one physical connection
Addressing	Via menus or 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) 2-pin power supply connector
Housing	Aluminium, painted RAL7016 with plastic side panels
Protection rating	IP40
Dimensions (W x H x D)	(excl. joystick) 255 x 50 x 170 mm
Power requirements	12 to 13.2 V DC
Power consumption	2.4 W
Weight	1.05 kg

V-K	**V-K Keyboard for Visilynx Systems V3**	**BPZ:80-235**

The Visilynx keyboard is a high spec video control system. It has a range of features and functions, allowing full configurability for almost any installation. The on-screen menus and commands are easy to use and understand. The Visilynx keyboard gives operators the ability to select cameras and camera pre-set positions by meaningful names rather than meaningless numbers.

Power requirements	12 V DC, 350 mA
Weight	4.0 kg

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Pan/Tilt Heads

Type		Order No.
P25/D	**P25/D Pan & Tilt Head, 24 V DC** A robust, high-performance side mount DC Pan-Tilt unit. Allows reliable and accurate control of medium-heavy loads up to 25 kg, with thermo-static heater. Includes pre-wired cables (2 m long).	**BPZ:80-185**

Power requirements	24 V DC
Colour	Painted Polyester Powdercoat RAL7032 Leatherette Full Gloss
Dimensions (W x H x D)	Side mount: 380 x 230 x 184 mm
Plug connection	7-pin plug (power supply)
Pan speed	24°/s
Tilt speed	12°/s
Load rating	25 kg (Side mount)
Presets	No
Protection rating	IP66
Weight	7.0 kg

P25T/D	**P25T/D Pan & Tilt head, 24 V DC** A robust, high-performance over-the-top mount DC Pan-Tilt unit (side mount optional). Allows reliable and accurate control of medium-heavy loads from 16 kg, with thermostatic heater. Includes pre-wired cables (2 m long).	**BPZ:80-350**

Power requirements	24 V DC
Colour	Painted Polyester Powdercoat RAL7032 Leatherette Full Gloss
Dimensions (W x H x D)	Side mount: 380 x 230 x 184 mm Over the top mount: 221 x 252 x 184 mm
Plug connection	7-pin plug (power supply)
Pan speed	48°/s
Tilt speed	24°/s
Load rating	16 kg (Over the Top) or 16 kg (Side mount)
Presets	No
Protection rating	IP66
Weight	7.0 kg

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Type		Order No.
P25T-P/L	**P25T-P/L Pan & Tilt head, 24 V AC**	**BPZ:80-352**

A robust, high-performance over-the-top mount AC Pan-Tilt unit (side mount optional). Allows reliable and accurate control of medium-heavy loads from 16 to 25 kg, with thermostatic heater and heavy-duty pre-sets as standard. Includes pre-wired cables (2 m long).

Power requirements	24 V AC
Colour	Painted Polyester Powdercoat RAL7032 Leatherette Full Gloss
Dimensions (W x H x D)	Side mount: 380 x 230 x 184 mm Over the top mount: 221 x 252 x 184 mm
Plug connection	7-pin plug (power supply) 4-pin plug (presets)
Pan speed	6°/s
Tilt speed	3°/s
Load rating	16 kg (Over the Top) or 25 kg (Side mount)
Potentiometer on both axis	yes
Presets	Yes
Protection rating	IP66
Weight	7.0 kg

P25T-P — **P25T-P Pan & Tilt head, 230 V AC** — **BPZ:80-351**

A robust, high-performance over-the-top mount AC Pan-Tilt unit (side mount optional). Allows reliable and accurate control of medium-heavy loads from 16 to 25 kg, with thermostatic heater and heavy-duty pre-sets as standard. Includes pre-wired cables (2 m long).

Power requirements	230 V AC
Colour	Painted Polyester Powdercoat RAL7032 Leatherette Full Gloss
Dimensions (W x H x D)	Side mount: 380 x 230 x 184 mm Over the top mount: 221 x 252 x 184 mm
Plug connection	7-pin plug (power supply) 4-pin plug (presets)
Pan speed	6°/s
Tilt speed	12°/s
Load rating	16 kg (Over the Top) or 25 kg (Side mount)
Potentiometer on both axis	yes
Presets	Yes
Protection rating	IP66
Weight	7.0 kg

Pan/Tilt Heads

Type		Order No.
PT40 Pot	**Pan-Tilt, Fixed-Speed, 20 kg, IP66, 24 V AC, Presets**	**2GF1708-8AS**

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 housing with drive shafts made of high quality stainless steel and with potentiometers for position control to allow the programming of presets.

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	13 pin
Shell construction	Extruded aluminium body
Colour	RAL7032 (light grey)
Potentiometer on both axis	5 kOhm
Dimensions (W x H x D)	
Weight	6.50 kg
Protection rating	IP66
Power requirements	24 V AC
Power consumption	2 x 6.8 W

CDD2410 — **Pan-Tilt, Prog. Speed, 12 kg, IP66, 24 V AC, Presets, Built in Receiver** — **2GF1708-8EA**

Pan-tilt to allow the remote control of panning and tilting CCTV cameras with variable speed, 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 housing with drive shafts made of high quality stainless steel and with potentiometers for position control to allow the programming of presets. 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 telemetriey receiver 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
Colour	C31 / RAL7032 (light grey)
Weight	6.50 kg
Protection rating	IP66
Dimensions (W x H x D)	
Power requirements	24 V AC
Power consumption	90 W

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Type		Order No.
CDC0501	**Telemetry Receiver for Control Pan-Tilt Heads**	**S24245-B5015-A1**

Weatherproof telemetry receiver for control pan-tilt units and motor-driven zoom lenses. 3 auxilliary contacts are available to trigger external devices. The drivers can be controlled either via a SIMATRIX SYS, Neo, 648 or 164 video matrix or from the CKA3210 and CKA4820 control keyboards directly. The control unit is designed for operating pan-and-tilt heads with a power supply of 230 V AC, 115 V AC or 24 V AC. Up to 99 addresses can be selected using DIP switches.
6 x M16, 2 x M20 and 1 x M26 glands are provided for cabling.

Address codes	99
Power requirements	230 V AC / 115 V AC, 50/60 Hz
Dimensions (W x H x D)	280 x 190 x 130 mm
Auxiliary relays	3
Compatible with	CKA3210, CKA4820, SIMATRIX
Protection rating	IP66
Telemetry formats	TTY 20 mA, RS232, RS422 / RS485
Auxiliary contact rating	250 V AC, 1 A 30 V DC, 2.5 A
Baud rate	(2400 to 19200 bps selectable)
Data outputs (camera control)	TTL, RS422 / RS485
Weight	2.85 kg

CDC0502	**Telemetry Receiver for Control Pan-Tilt Heads, Potentiometers**	**S24245-B5017-A1**

Weatherproof telemetry receiver for control pan-tilt units and motor-driven zoom lenses. The drivers can be controlled either via a SIMATRIX SYS, Neo, 648 or 164 video matrix or from the CKA3210 and CKA4820 control keyboards directly. The control unit is designed for operating pan-and-tilt heads with a power supply of 230 V AC, 115 V AC or 24 V AC. Up to 99 addresses can be selected using DIP switches. Also with position control for zoom/focus and pan/tilt for 64 stored preset positions.
6 x M16, 2 x M20 and 1 x M26 glands are provided for cabling.

Address codes	99
Power requirements	230 V AC, 115 V AC, 50/60 Hz
Dimensions (W x H x D)	280 x 190 x 130 mm
Auxiliary relays	3
Compatible with	CKA3210, CKA4820, SIMATRIX
Protection rating	IP66
Telemetry formats	TTY 20 mA, RS232, RS422 / RS485
Auxiliary contact rating	250 V AC, 1 A 30 V DC, 2.5 A
Baud rate	(2400 to 19200 bps selectable)
Data outputs (camera control)	TTL, RS422 / RS485
Presets	64
Weight	2.85 kg

Pan/Tilt Telemetry Receivers / Drivers

Type		Order No.
RX210	**10 Function Telemetry Receiver** For fixed-speed AC systems with pan, tilt and auto-iris zoom lenses. Compatible with all telemetry controllers using Molynx protocol. Supplied as standard in a weatherproof box according to IP66.	**BPZ:80-199**

Power requirements	230 – 240 V AC, 50/60 Hz
Power consumption	20 W
P/T head control voltage	230 V AC
Address codes	256
Dimensions (W x H x D)	168 x 86 x 220 mm
Telemetry formats	C Type (Coax) or D Type (RS485, Molynx protocol)
Baud rate	9600 bps
Cable entry	2 x 20 mm 3 x 13 mm
MTBF	At 25° C 30,000 h
Dimensions (W x H x D)	168 x 86 x 220 mm
Protection rating	IP66
Control functions	10
Compatible with	Controllers / matrix switchers with Molynx protocol
Operating temperature range	-20° C to +40° C
Weight	PCB: 0.80 kg Box: 1.50 kg

RX210-24	**10 Function Telemetry Receiver** For fixed-speed AC systems with pan, tilt and auto-iris zoom lenses. Compatible with all telemetry controllers using Molynx protocol. Supplied as standard in a weatherproof box according to IP66.	**BPZ:80-200**

Power requirements	230 – 240 V AC, 50/60 Hz
Power consumption	20 W
P/T head control voltage	24 V AC
Address codes	256
Dimensions (W x H x D)	102 x 30 x 100 mm
Telemetry formats	C Type (Coax) or D Type (RS485, Molynx protocol)
Baud rate	9600 bps
Cable entry	2 x 20 mm 3 x 13 mm
MTBF	At 25° C 30,000 h
Dimensions (W x H x D)	102 x 30 x 100 mm
Protection rating	IP66
Control functions	10
Compatible with	Controllers / matrix switchers with Molynx protocol
Operating temperature range	-20° C to +40° C
Weight	PCB: 0.80 kg Box: 1.50 kg

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Type		Order No.
RX210-HS01	**A RX210, but Suitable for HS01 Mounting** RX210 board mounted on a chassis to install in a HS01 housings.	**BPZ:80-201**

Power requirements	230 – 240 V AC, 50/60 Hz
Power consumption	20 W
P/T head control voltage	230 V AC
Address codes	256
Dimensions (W x H x D)	102 x 30 x 100 mm
Telemetry formats	C Type (Coax) or D Type (RS485, Molynx protocol)
Baud rate	9600 bps
MTBF	At 25° C 30,000 h
Dimensions (W x H x D)	102 x 30 x 100 mm
Control functions	10
Compatible with	Controllers / matrix switchers with Molynx protocol
Operating temperature range	-20° C to +40° C
Weight	PCB: 0.80 kg Box: 1.50 kg

RX210-PCBCD/D12	**10 Function Telemetry Receiver Board** RX210 board only, for use in applications where a customer-specific enclosure or other installation is to be used.	**BPZ:80-202**

Power requirements	12 V DC
Power consumption	20 W
P/T head control voltage	User preferency (24 V AC, 230 V AC)
Address codes	256
Dimensions (W x H x D)	102 x 30 x 100 mm
Telemetry formats	C Type (Coax) or D Type (RS485, Molynx protocol)
Baud rate	9600 bps
MTBF	At 25° C 30,000 h
Dimensions (W x H x D)	102 x 30 x 100 mm
Control functions	10
Compatible with	Controllers / matrix switchers with Molynx protocol
Operating temperature range	-20° C to +40° C
Weight	0.26 kg

Pan/Tilt Telemetry Receivers / Drivers

Type		Order No.
RX217	**17 Function Telemetry Receiver**	**BPZ:80-203**

Offers preset positioning capability, for fixed-speed AC systems with pan, tilt and zoom. Also gives iris control and auxiliary functions. Compatible with all RX telemetry controllers. Supplied as standard, built into a weatherproof box according to IP66. Can accept C or D telemetry. Supports up to 99 presets.
Automatic home positioning. UK mains socket.

Power requirements	220 – 230 V AC, 50/60 Hz
Power consumption	20 W
P/T head control voltage	230 V AC
Address codes	256
Baud rate	9600 bps
Control functions	17
Compatible with	Controllers / matrix switchers with Molynx protocol
Operating temperature range	-20° C to +40° C
Telemetry formats	C Type (Coax) or D Type (RS485, Molynx protocol)
MTBF	At 25° C 30,000 h
Dimensions (W x H x D)	164 x 135 x 254 mm
Weight	PCB: 0.50 kg BOX: 1.75 kg

RX217-24	**17 Function Telemetry Receiver**	**BPZ:80-204**

Offers preset positioning capability, for fixed-speed AC systems with pan, tilt and zoom. Also gives iris control and auxiliary functions. Compatible with all RX telemetry controllers. Supplied as standard, built into a weatherproof box according to IP66. Can accept C or D telemetry. Supports up to 99 presets.
Automatic home positioning. UK mains socket.

Power requirements	220 – 230 V AC, 50/60 Hz
Power consumption	20 W
P/T head control voltage	24 V AC
Address codes	256
Baud rate	9600 bps
Control functions	17
Compatible with	Controllers / matrix switchers with Molynx protocol
Operating temperature range	-20° C to +40° C
Telemetry formats	C Type (Coax) or D Type (RS485, Molynx protocol)
MTBF	At 25° C 30,000 h
Dimensions (W x H x D)	164 x 135 x 254 mm
Weight	PCB: 0.50 kg BOX: 1.75 kg

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Pan/Tilt Telemetry Receivers / Drivers

Type		Order No.
RX217D	**17 Function Telemetry Receiver**	**BPZ:80-205**

Offers full variable-speed control and faster preset positioning capability, for DC systems with pan-tilt and zoom lenses. Also gives iris control and auxiliary functions. Compatible with all telemetry controllers (Molynx protocol). Shortest route to pre-set position. For ease of control, pan speed slows down for zoom.
230 V AC supply for functions.

Power requirements	230 – 240 V AC, 50/60 Hz
Power consumption	20 W
P/T head control voltage	24 V DC
Address codes	256
Baud rate	9600 bps
Control functions	17
Compatible with	Controllers / matrix switchers with Molynx protocol
Operating temperature range	-20° C to +40° C
Telemetry formats	C Type (Coax) or D Type (RS485, Molynx protocol)
MTBF	At 25° C 30,000 h
Dimensions (W x H x D)	210 x 135 x 280 mm
Weight	PCB: 0.50 kg Box: 1.75 kg

RX217D-24	**17 Function Telemetry Receiver**	**BPZ:80-206**

Offers full variable-speed control and faster preset positioning capability, for DC systems with pan-tilt and zoom lenses. Also gives iris control and auxiliary functions. Compatible with all telemetry controllers (Molynx protocol). Shortest route to pre-set position. For ease of control, pan speed slows down for zoom.
24 V AC supply for functions.

Power requirements	230 – 240 V AC, 50/60 Hz
Power consumption	20 W
P/T head control voltage	24 V DC
Address codes	256
Baud rate	9600 bps
Control functions	17
Compatible with	Controllers / matrix switchers with Molynx protocol
Operating temperature range	-20° C to +40° C
Telemetry formats	C Type (Coax) or D Type (RS485, Molynx protocol)
MTBF	At 25° C 30,000 h
Dimensions (W x H x D)	210 x 135 x 280 mm
Weight	PCB: 0.50 kg Box: 1.75 kg

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Pan/Tilt Telemetry Receivers / Drivers

Type		Order No.
RX217D-PCBCD	**17 Function Telemetry Receiver Board** Offers full variable-speed control and faster preset positioning capability, for DC systems with pan-tilt and zoom lenses. Also gives iris control and auxiliary functions. Compatible with all telemetry controllers (Molynx protocol). Shortest route to pre-set position. For ease of control, pan speed slows down for zoom. PCB only.	**BPZ:80-208**

Power requirements	230 – 240 V AC, 50/60 Hz
Power consumption	20 W
P/T head control voltage	24 V DC
Address codes	256
Baud rate	9600 bps
Control functions	17
Compatible with	Controllers / matrix switchers with Molynx protocol
Operating temperature range	-20° C to +40° C
Telemetry formats	C Type (Coax) or D Type (RS485, Molynx protocol)
MTBF	At 25° C 30,000 h
Dimensions (W x H x D)	210 x 135 x 280 mm
Weight	PCB: 0.50 kg Box: 1.75 kg

RX217-PCBCD	**17 Function Telemetry Receiver Board** RX217 board only, for use in applications where a customer-specific enclosure or other installation is to be used. Offers preset positioning capability, for fixed-speed AC systems with pan, tilt and zoom. Also gives iris control and auxiliary functions. Compatible with all RX telemetry controllers. Can accept C or D telemetry. Supports up to 99 presets. Automatic home positioning.	**BPZ:80-209**

Power requirements	230 – 240 V AC, 50/60 Hz
P/T head control voltage	230 V AC
Address codes	256
Baud rate	9600 bps
Control functions	17
Compatible with	Controllers / matrix switchers with Molynx protocol
Operating temperature range	-20° C to +40° C
Telemetry formats	C Type (Coax) or D Type (RS485, Molynx protocol)
MTBF	At 25° C 30,000 h
Dimensions (W x H x D)	120 x 30 x 195 mm

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Type		Order No.
WMB-PT40	**Wall Mount Bracket for PT40 and CDD2410**	**2GF1710-8AC**

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

Finish	Galvanized steel, painted
Colour	Off-white (RAL9002)
Load rating	60 kg
Arm length	226 mm
Dimensions (W x H x D)	250 x 290/430 x 530 mm
Weight	2.40 kg

P25-SMKIT — **Side Mount Plate for Pan-Tilt Range P25** — **BPZ:80-353**

The side mount plate can be used to convert a P/T P25 over-the-top mount version to a side mount version.

Colour	Painted Polyester Powdercoat RAL7032 Leatherette Full Gloss
Weight	1.0 kg

BP40 — **40 kg Fixed Bracket** — **BPZ:80-111**

A medium-weight bracket for mounting medium-weight pan & tilts and/or housings to a wall or other surface.

Dimensions (W x H x D)	4" PCD Mounting Holes, 460 mm Long.
Colour	Painted Polyester Powdercoat RAL7032 Leatherette Full Gloss
Load rating	40 kg
Finish	Cast Aluminium
Weight	2.0 kg

BP100 — **Heavy-Duty Fabricated Bracket** — **BPZ:80-110**

A heavy-duty bracket for fixing heavy housings and/or pan & tilts to a wall or other surface.

Dimensions (W x H x D)	230 x 420 x 664 mm
Colour	Polyester Powdercoat RAL7032 Leatherette Full Gloss
Load rating	100 kg
Finish	Tubular Square Section Stainless Steel
Weight	8.0 kg

Pan/Tilt Mounts

Type		Order No.
BS40	**40 kg-Rated Swivel Mount Adaptor** A swivel mount that can be used in conjunction with a standard 4" pcd mount bracket for medium-weight housings. This adaptor allows the housing to be pointed in the required direction by means of a movable pivot and rotation. Dimensions (W x H x D): 127 x 175 x 127 mm Colour: Natural Load rating: 40 kg Finish: Folded Stainless Steel with Stainless Steel Fasteners Weight: 2.0 kg	**BPZ:80-113**
BCS12	**12" Column Spacer with 4" PCD** Column spacers can be used in a number of situations to raise or lower the height of a housing or pan & tilt. Dimensions (Ø x H): 127 x 304.8 mm Load rating: max. 100 kg Finish: Mild Steel Weight: 3.0 kg	**BPZ:80-104**
BCS06	**6" Column Spacer with 4" PCD** Column spacers can be used in a number of situations to raise or lower the height of a housing or pan & tilt. Dimensions (Ø x H): 127 x 152.4 mm Load rating: max. 100 kg Finish: Mild Steel Weight: 2.0 kg	**BPZ:80-102**

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Accessories Pan/Tilt and Telemetry Equipment

Type		Order No.
RX2-PCBD	**D-Type Module** Plug-in module for the RX2 series telemetry receivers to allow D-type telemetry to be used. D-type is the "twisted pair" type. The RX2 series receivers will require either the D-type or the D-type module to operate. Weight 0.20 kg	**BPZ:80-213**
RX2-PCBC	**C-Type Module** Plug-in module for the RX2 series telemetry receivers to allow C-type telemetry to be used. C-type is the "over the coax" type. The RX2 series receivers will require either the C-type or the D-type module to operate. Weight 0.20 kg	**BPZ:80-212**
RX2-PCB234	**3-Wire Lens Adaptor** Plug-in module for the RX2 series telemetry receivers which allows the wiring in of 3 wire lenses. Lenses and lens drive units are available in a multitude of configurations and styles. This adaptor simply allows 3-wire-drive lenses to be controlled from the RX2 Series telemetry receivers. Weight 0.024 kg	**BPZ:80-211**
P16CA-AC7F	**Spare AC Power Supply Cable Including Connector for Pan-Tilt P25** A spare power supply cable including connector for pan-tilts with 7 female pins (AC version). Weight 0.24 kg	**BPZ:80-173**
P12C-DC6	**Spare DC Connector for Pan-Tilt P25** A spare connector for pan-tilts with 7 female pins (DC power supply connector). Weight 0.40 kg	**BPZ:80-170**

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Spare Parts Pan/Tilt and Telemetry Equipment

Type		Order No.
P00C-AC7F	**Spare AC Connector for Pan-Tilt P25** A spare connector for pan-tilts with 7 female pins (AC power supply connector). Weight 0.30 kg	**BPZ:80-169**
P00C-4F	**Spare Preset Connector for Pan-Tilt P25** A spare connector for pan-tilts with 4 female pins (preset). Weight 0.40 kg	**BPZ:80-167**

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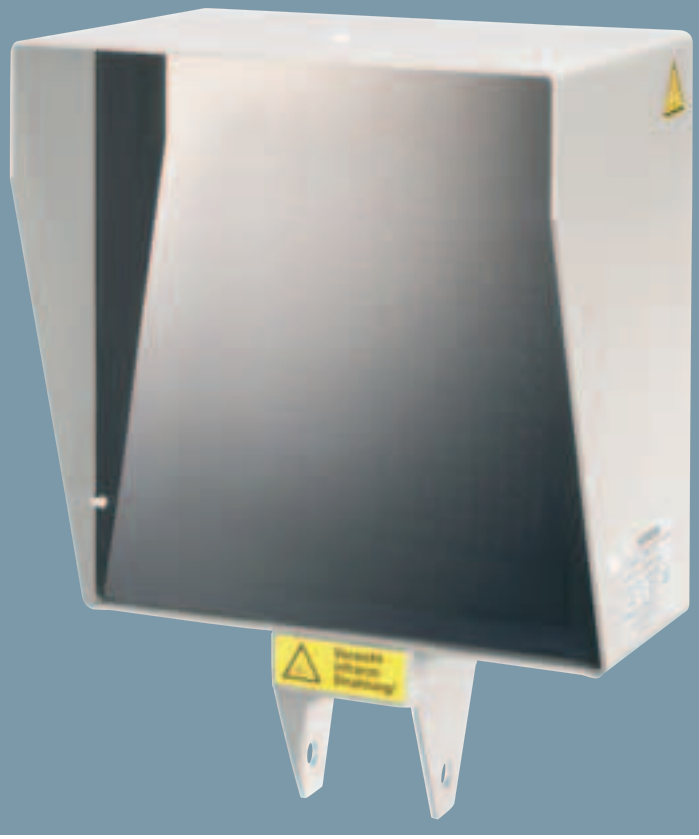
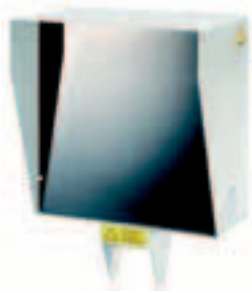
Infrared Illumination



The best way to view at night is with professional infrared illumination

Infrared illuminators are ideal for situations where local restrictions prohibit the use of visible lighting or where visible lighting attracts undesirable activity. The professional choice to allow cameras to see at night is via infrared illumination. The range covers various distances to be illuminated, depending upon the target distance to be monitored. Ideal for use with monochrome and day-night cameras as all Siemens day-night models are compatible with infrared illumination.

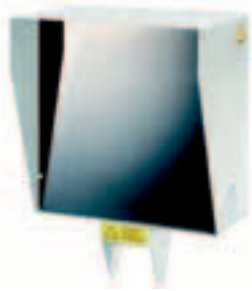
Type		Order No.
SIRED-S25	**IR Illuminator LED 25° 50 m, Stainless**	**2GF1903-8AT**



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
Colour	Brushed stainless steel
Weight	6.40 kg
Dimensions (W x H x D)	
Power requirements	230 V AC
Power consumption	75 W

SIRED-S50 — **IR Illuminator LED 50° 35 m, Stainless** — **2GF1903-8AU**



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	50°
Useable range	Approx. 40 m
Protection rating	IP65
Material	Stainless steel, acrylic glass
Colour	Brushed stainless steel
Weight	6.40 kg
Dimensions (W x H x D)	
Power requirements	230 V AC
Power consumption	75 W

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Accessories Illumination

Type		Order No.
SIRED-MB/S	**Mounting Block for SIRED S25/S50** To instal an S25 and S50 SIRED illuminator to a horizontal surface or a pan and tilt drive. Consisting of V2A steel. Weight 0.10 kg	**2GF1903-8AV**
SIRED-PS	**IR Photocell for 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 swith SIRED infrared illuminators. Adjustment range: Approx. 1 - 1000 Lux 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 Switching capacity: 16 A, 230 V AC max. 1000 W incandescent bulbs Weight: 0.32 kg	**2GF1903-8AG**
SIRED-WMB/S	**Wall Bracket for SIRED S25/S50** Wall mount bracket for SIRED S25 and S50. Consisting of V2A steel with adjustable base. Pole diameter: 108 mm Weight: 0.50 kg	**2GF1903-8AW**
SIRED-PMB/S	**Pole Bracket for SIRED S25/S50** Pole mount bracket for SIRED S25 and S50. Consisting of V2A steel with adjustable base. Pole diameter: 108 mm Weight: 2.05 kg	**2GF1903-8AX**

Phoenix explosion-proof equipment...
... on sites where there is a risk of explosion.

Pan & tilt heads and camera housings for potentially explosive environments

The Phoenix™ range of explosion-proof equipment is typically used for surveillance in petrochemical, industrial, aerospace, or offshore industries, and generally on sites where there is a risk of explosion due to volatile gases or vapours.

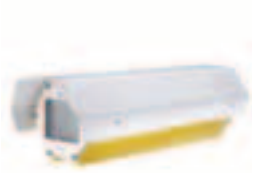
Special ordering process: The equipment is delivered including a camera of your choice completely ready for use, certified to meet the rigorous and exacting European ATEX Directive 94/9/EC.

Phoenix products are available with a range of built-in telemetry receiver options.

- For use in hazardous environments: oil rigs, petrochemical plants etc.
- Each unit is individually pressure tested
- Options for gas Group IIB and IIC explosive gas environment
- Housings available with heater, sunshield or wipers

Explosion-Proof Housings

Type		Order No.
FH07C..	**Phoenix Explosion-Proof Extruded Aluminium Camera Housings, ATEX Certified for IIC Applications**	**FH07C..**



The "Phoenix Explosion-Proof" equipment is ATEX-certified to be used in potentially hazardous areas where there is a risk of explosion because flammable gases, vapours, mists or dusts may be present. The housing is designed to prevent explosion by containing any heat, sparks, or flames generated. This prevents ignition of potentially explosive atmospheres or materials outside the equipment. The housing is ATEX-certified for use in IIC gas environments (includes hydrogen and acetylene). The housing is supplied complete with heater & sun shield. The housing can be factory fitted with a wiper and integral 10 or 17fn AC Telemetry Receiver.

Siemens will deliver this housing only as a factory pre-built version with Siemens or customer-supplied camera and lens. Therefore one of the Phoenix-FIT options must be ordered.
Please note, that Siemens cannot supply ATEX IIC Equipment certificates unless one of the Phoenix-CERT options is ordered with each housing.

Approval	Certification to European ATEX Directive 94/9/EC. Ex ii 2 GD (EExd IIC T6)
Colour	Body: Polyester Powder Coat RAL1020 (Yellow). Endplates: Clear Anodised. Sunshield: White Polyester Powder Coat.
Cable entry	Internal Terminal Block, 4 off 20 mm x 1.5
Finish	Aluminium extrusion (housing body), aluminium (end caps and sunshield)
Ambient temperature, storage	-20° C to +40° C
Heater rating	7 W nominal, 25 W max.
Protection rating	IP67 BS EN 60 529

FH07C-30	**230 V AC ATEX IIC Explosion-Proof Housing**	**S24245-C4020-A10**

As FH07C.. for technical details, but with the following differences:

Power requirements	230 V AC
Usable volume (W x H x D)	114 x 94 x 290 mm
Dimensions (W x H x D)	209 x 186 x 545 mm
Weight	10.0 kg

FH07C-30/L	**24 V AC ATEX IIC Explosion-Proof Housing**	**S24245-C4020-A12**

As FH07C.. for technical details, but with the following differences:

Power requirements	24 V AC
Usable volume (W x H x D)	114 x 94 x 290 mm
Dimensions (W x H x D)	209 x 186 x 545 mm
Weight	10.0 kg

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Type		Order No.
FH07C-30/U	**110 V AC ATEX IIC Explosion-Proof Housing** As FH07C.. for technical details, but with the following differences: Power requirements 110 V AC Usable volume (W x H x D) 114 x 94 x 290 mm Dimensions (W x H x D) 209 x 186 x 545 mm Weight 10.0 kg	**S24245-C4020-A11**
FH07C-40	**230 V AC ATEX IIC Explosion-Proof Housing** As FH07C.. for technical details, but with the following differences: Power requirements 230 V AC Usable volume (W x H x D) 114 x 94 x 420 mm Dimensions (W x H x D) 209 x 186 x 675 mm Weight 11.8 kg	**S24245-C4020-A4**
FH07C-40/L	**24 V AC ATEX IIC Explosion-Proof Housing** As FH07C.. for technical details, but with the following differences: Power requirements 24 V AC Usable volume (W x H x D) 114 x 94 x 420 mm Dimensions (W x H x D) 209 x 186 x 675 mm Weight 11.8 kg	**S24245-C4020-A6**
FH07C-40/U	**110 V AC ATEX IIC Explosion-Proof Housing** As FH07C.. for technical details, but with the following differences: Power requirements 110 V AC Usable volume (W x H x D) 114 x 94 x 420 mm Dimensions (W x H x D) 209 x 186 x 675 mm Weight 11.8 kg	**S24245-C4020-A5**

Explosion-Proof Housings

Type		Order No.
FH07B..	**Phoenix Explosion-Proof Extruded Aluminium Camera Housings, ATEX Certified for IIB Applications**	**FH07B..**

The "Phoenix Explosion-Proof" equipment is ATEX-certified to be used in potentially hazardous areas where there is a risk of explosion because flammable gases, vapours, mists or dusts may be present. The housing is designed to prevent explosion by containing any heat, sparks, or flames generated. This prevents ignition of potentially explosive atmospheres or materials outside the equipment. The housing is ATEX-certified for use in IIB gas environments (includes ethylene and propane). The housing is supplied complete with heater & sun shield. The housing can be factory-fitted with a wiper and integral 10 or 17fn AC Telemetry Receiver.

Siemens can deliver this housing as a factory pre-built version with Siemens or customer-supplied camera and lens. Therefore one of the Phoenix-FIT options must be ordered.
Please note, that Siemens cannot supply ATEX IIB Equipment certificates unless one of the Phoenix-CERT option is ordered with each housing.

Approval	Certification to European ATEX Directive 94/9/EC. Ex ii 2 GD (EExd IIB T6)
Colour	Body: Polyester Powder Coat RAL1020 (Yellow). Endplates: Clear Anodised. Sunshield: White Polyester Powder Coat.
Cable entry	Internal Terminal Block, 4 off 20 mm x 1.5
Finish	Aluminium extrusion (housing body), aluminium (end caps and sunshield)
Ambient temperature, storage	-20° C to +40° C
Heater rating	7 W nominal, 25 W max.
Protection rating	IP67 BS EN 60 529

FH07B-30	**230 V AC ATEX IIB Explosion-Proof Housing**	**S24245-C4020-A7**

As FH07B.. for technical details, but with the following differences:

Power requirements	230 V AC
Usable volume (W x H x D)	114 x 94 x 290 mm
Dimensions (W x H x D)	209 x 186 x 545 mm
Weight	10.0 kg

FH07B-30/L	**24 V AC ATEX IIB Explosion-Proof Housing**	**S24245-C4020-A9**

As FH07B.. for technical details, but with the following differences:

Power requirements	24 V AC
Usable volume (W x H x D)	114 x 94 x 290 mm
Dimensions (W x H x D)	209 x 186 x 545 mm
Weight	10.0 kg

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Type		Order No.
FH07B-30/U	**110 V AC ATEX IIB Explosion-Proof Housing** As FH07B.. for technical details, but with the following differences: Power requirements 110 V AC Usable volume (W x H x D) 114 x 94 x 290 mm Dimensions (W x H x D) 209 x 186 x 545 mm Weight 10.0 kg	**S24245-C4020-A8**
FH07B-40	**230 V AC ATEX IIB Explosion-Proof Housing** As FH07B.. for technical details, but with the following differences: Power requirements 230 V AC Usable volume (W x H x D) 114 x 94 x 420 mm Dimensions (W x H x D) 209 x 186 x 675 mm Weight 11.8 kg	**S24245-C4020-A1**
FH07B-40/L	**24 V AC ATEX IIB Explosion-Proof Housing** As FH07B.. for technical details, but with the following differences: Power requirements 24 V AC Usable volume (W x H x D) 114 x 94 x 420 mm Dimensions (W x H x D) 209 x 186 x 675 mm Weight 11.8 kg	**S24245-C4020-A3**
FH07B-40/U	**110 V AC ATEX IIB Explosion-Proof Housing** As FH07B.. for technical details, but with the following differences: Power requirements 110 V AC Usable volume (W x H x D) 114 x 94 x 420 mm Dimensions (W x H x D) 209 x 186 x 675 mm Weight 11.8 kg	**S24245-C4020-A2**

Explosion-Proof Pan/Tilt Units

Type		Order No.
FP50B..	**Phoenix Explosion-Proof Heavy Duty Aluminium Pan-Tilt Units ATEX Certified for IIB Applications**	**FP50B..**

The "Phoenix Explosion-Proof" equipment is ATEX-certified to be used in potentially hazardous areas where there is a risk of explosion because flammable gases, vapours, mists or dusts may be present. The unit is designed to prevent explosion by containing any heat, sparks, or flames generated. This prevents ignition of potentially explosive atmospheres or materials outside the equipment. The unit is ATEX-certified for use in IIB gas environments (includes ethylene and propane). The pan & tilts are fitted with potentiometers, and 230, 110 and 24 V AC versions are available.

Please note, that Siemens cannot supply ATEX IIB Equipment certificates unless the Phoenix-CERT option is ordered with each PTZ.

Approval	Certification to European ATEX Directive 94/9/EC. Ex ii 2 GD (EExd IIB T6)
Dimensions (W x H x D)	167 x 291 x 471 mm
Colour	Body: Polyester Powdercoat RAL1021 (Yellow). Endplates: Clear Anodised.
Cable entry	Internal terminal block, 1 off 20 mm x 1.5 threaded hole for certified gland.
Pan speed	4.5°/sec Torque 45 Nm Backlash ±0.15° (max.)
Tilt speed	e.5°/sec Torque 45 Nm Backlash ±0.15° (max.)
Rotation	Pan 252° (max.) Tilt ±172°
Finish	Aluminium
Load rating	40 kg
Protection rating	IP67 BS EN 60 529
Weight	19.0 kg

FP50B	**Phoenix Explosion-Proof ATEX IIB preset Pan-Tilt 230 V AC**	**S24245-C4060-A1**

As FP50B.. for technical details, but with the following differences:

Power requirements	230 V AC, 50/60 Hz
Power consumption	30 VA

FP50B/L	**Phoenix Explosion-Proof ATEX IIB preset Pan-Tilt 24 V AC**	**S24245-C4060-A3**

As FP50B.. for technical details, but with the following differences:

Power requirements	24 V AC, 50/60 Hz
Power consumption	31 VA

FP50B/U	**Phoenix Explosion-Proof ATEX IIB preset Pan-Tilt 110 V AC**	**S24245-C4060-A2**

As FP50B.. for technical details, but with the following differences:

Power requirements	110 V AC, 50/60 Hz
Power consumption	33 VA

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Explosion-Proof Pan/Tilt Units

Type		Order No.
FPHC..	**Phoenix Explosion-Proof Aluminium Camera Housing and PTZ Head Assemblies ATEX Certified for IIC Applications**	**FPHC..**

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

Siemens will deliver this housing and PTZ head only as a factory pre-built version with Siemens or customer-supplied camera and lens. Therefore one of the Phoenix-FIT options must be ordered.
Please note, that Siemens cannot supply ATEX IIC Equipment certificates unless one of the Phoenix-CERT option is ordered with each housing.
Glands are supplied for both ends of P&T lead. Suitable ATEX approved cable glands for all other cables must be purchased separately.

Dimensions (W x H x D)	Housing: 209 x 186 x 675 mm P&T: 167 x 291 x 471 mm
Colour	Body: Polyester Powder Coat RAL1021(Yellow). Endplates: Clear Anodised. Sunshield: White Polyester Powder Coat.
Cable entry	Internal Terminal Block, 4 off 20 mm x 1.5 threaded holes for certified glands, fitted with BASEEFA certified blanking plugs.
Pan speed	4.5°/sec Torque 45 Nm Backlash ±0.15° (max.)
Tilt speed	e.5°/sec Torque 45 Nm Backlash ±0.15° (max.)
Rotation	Pan 252° (max.) Tilt ±172°
Finish	Aluminium extrusion (housing body), aluminium (P&T body, all end caps and housing sunshield)
Load rating	40 kg
Presets	Standard
Protection rating	IP67 BS EN 60 529
Weight	Housing: 11.8 kg P&T: 19.0 kg

FPHC-40	**Phoenix 230 V AC ATEX IIC Explosion-Proof Preset Camera Head**	**S24245-C4070-A1**

As FPHC.. for technical details, but with the following differences:

Power requirements	230 V AC
Power consumption	51 VA

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Explosion-Proof Pan/Tilt Units

Type		Order No.
FPHC-40/L	**Phoenix 24 V AC ATEX IIC Explosion-Proof Preset Camera Head** As FPHC.. for technical details, but with the following differences: Power requirements 24 V AC Power consumption 52 VA	**S24245-C4070-A3**
FPHC-40/U	**Phoenix 110 V AC ATEX IIC Explosion-Proof Preset Camera Head** As FPHC.. for technical details, but with the following differences: Power requirements 110 V AC Power consumption 54 VA	**S24245-C4070-A2**

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Type		Order No.
FH07-RX210	**FH07-RX210 for Explosion-Proof Camera Housing** Telemetry Receiver as RX210, but as a PCB version only for the Phoenix TM FH07 Series explosion-proof Camera Housing. These factory-fit parts that can be used on the ATEX IIB and IIC housings. Power requirements: 230 – 240 V AC, 50/60 Hz Power consumption: 20 W Operating temperature range: -20 to +40 °C Telemetry formats: Molynx Cor D (coax and twisted pair)	**BPZ:80-128**
FH07-RX217	**FH07-RX217 for Explosion-Proof Camera Housing** Telemetry Receiver as RX217, but as a PCB version only for the Phoenix TM FH07 Series explosion-proof Camera Housing. These factory-fit parts that can be used on the ATEX IIB and IIC housings. Power requirements: 220 – 230 V AC, 50/60 Hz Power consumption: 20 W Operating temperature range: -20° C to +40° C Telemetry formats: Molynx Cor D (coax and twisted pair) Presets: 16 Preset Positions per Camera (99 Total)	**BPZ:80-129**

Type		Order No.
FH07W	**FH07W Wiper Kit for FH07 Housing - 230 V AC Motor** Wiper components for the FH07 Phoenix explosion-proof camera housings. These are factory-fit parts that can be used on the ATEX IIB and IIC housings. Power consumption 4.6 VA Power requirements 230 V AC 50/60 Hz Weight 1.50 kg	**S24245-S4150-A1**
FH07W/L	**FH07W/L Wiper Kit for FH07 Housing - 24 V AC Motor** Wiper components for the FH07 Phoenix explosion-proof camera housings. These are factory-fit parts that can be used on the ATEX IIB and IIC housings. Power consumption 4.8 VA Power requirements 24 V AC, 50/60 Hz Weight 1.50 kg	**S24245-S4150-A3**
FH07W/U	**FH07W/U Wiper Kit for FH07 Housing - 110 V AC Motor** Wiper components for the FH07 Phoenix explosion-proof camera housings. These are factory-fit parts that can be used on the ATEX IIB and IIC housings. Power consumption 4.4 VA Power requirements 110 V AC, 50/60 Hz Weight 1.50 kg	**S24245-S4150-A2**
Phoenix-CERT..	**Factory Fit Camera & Lens including ATEX Equipment Certification** Siemens cannot supply ATEX IIB or IIC Equipment certificates unless the Phoenix-CERT-option is ordered with each housing and PTZ.	**Phoenix-CERT..**
Phoenix-CERT-Siemens	**Factory Fit Siemens Camera & Lens including ATEX Equipment Certification** This option should be ordered if Siemens products will be used in the Phoenix housings. This option shall be ordered for each housing.	**S24245-C4090-A3**
Phoenix-CERT-3rd Party	**Factory Fit 3rd Party Camera & Lens including ATEX Equipment Certification** This option should be ordered if 3rd party products will be used in the Phoenix housings. This option shall be ordered for each housing.	**S24245-C4090-A4**
Phoenix-FIT..	**Fitting Fee, issued for each additional Component to be installed** The Phoenix-FIT-option must be ordered for each additional part which should be installed in the housing: i.e. power supply, 2 wire transmitter (this is not considered for FH07 Wiper and FH07-RX telemetry receiver).	**Phoenix-FIT..**
Phoenix-FIT-Siemens	**Fitting Fee, issued for each additional Siemens Component to be installed** This option should be ordered if Siemens products will be used in the Phoenix housings. This option shall be ordered for each component.	**S24245-C4090-A5**

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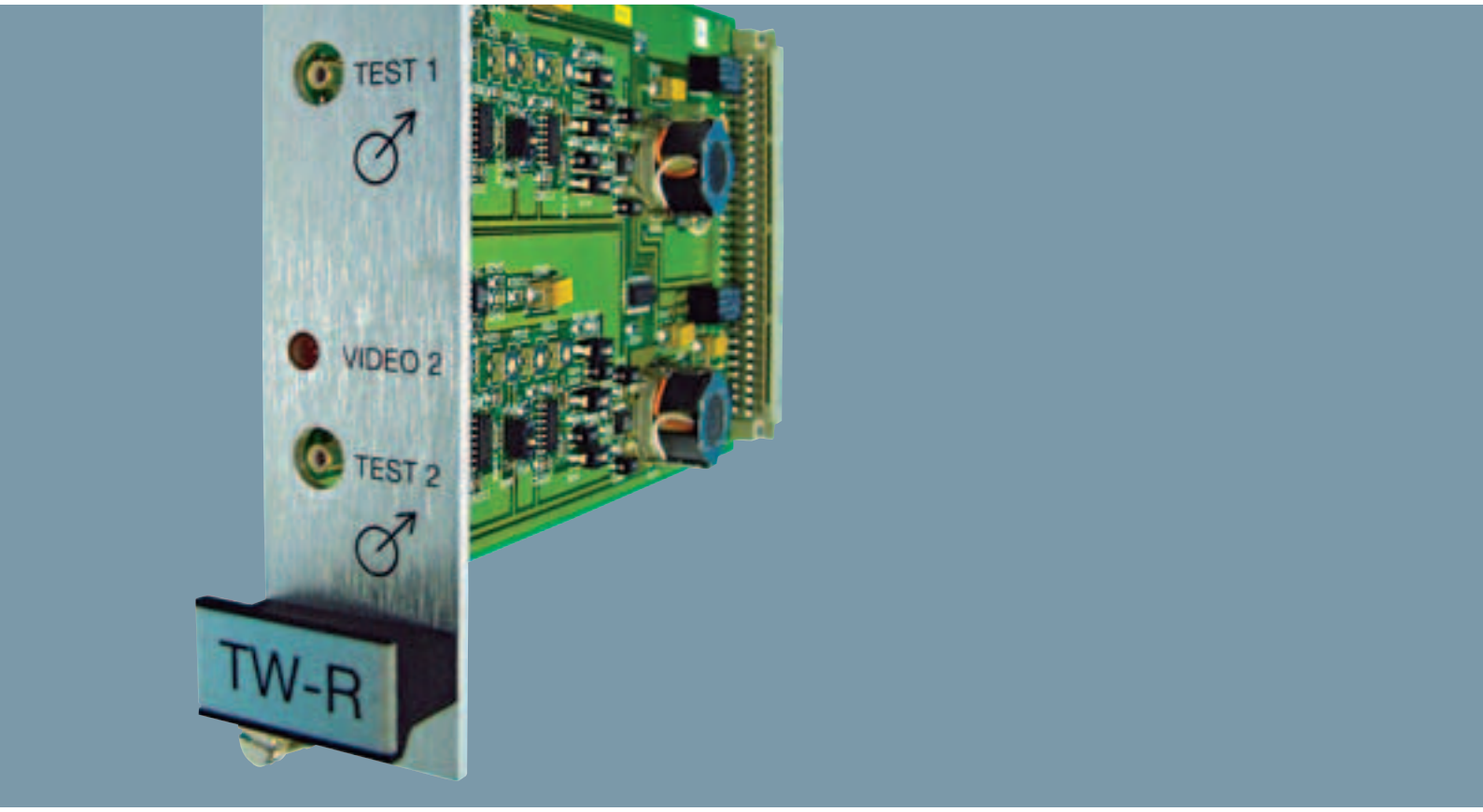
Type			Order No.
Phoenix-FIT-3rd Party	**Fitting Fee, issued for each additional 3rd Party Component to be installed** This option should be ordered if 3rd Party products will be used in the Phoenix housings. This option shall be ordered for each component.		**S24245-C4090-A6**
FH07C-CG	**Cable gland ATEX IIC for FH07C** Compound filled barrier gland for unarmored cable for FH07C Housings.		**BPZ:80-315**
	Approval	ATEX II GC (Eed IIC)	
WI01AB	**WI01AB Spare Wiper** Spare wiper arm and blade for HS01 and FH07 housings.		**BPZ:80-242**
	Protection rating	IP66	
	Weight	0.1 kg	

This warehouse contains our highest value goods, how can I protect them, yet give people access to move them?
Using interoperable access control, intrusion detection and video surveillance systems
Access control rights allow you in, automatically disabling the alarm system and simultaneously recording everything via the video surveillance system – all displayed and controlled via one screen.
www.siemens.com/interoperability
SIEMENS

Video Transmission



When distance is a problem, transmitting the video is the only solution...

With different possibilities of transmitting video, Siemens offers twisted pair or via Ethernet.

Twisted pair transmission is suitable for short range distances up to 1500 m – this offers a point to point connection.

The SISTORE CX range of Ethernet transmission is suitable for unlimited distances. Network transmission offers the possibility for anyone on the network to view the images. SISTORE CX information can be found in the section “Digital Recording”.

Type		Order No.
CTTT0111	**Twisted Pair Transmitter Module**	**2GF1714-8WN**

Twisted pair transmitter module for installation in the CHM/CHH, ECH-M/ECH-B, CHxx, CHSM2510, CHSL2610 camera protective housings and P/T Telemetry Receivers CDC0501/CDC0502.

Overvoltage protection	Twisted pair with gas discharge protection
Video output (two-wire)	2 Vpp, 130 Ohm, symmetric, screw terminal
Range	Up to 1.2 km twisted pair depending on TP receiver type
Dimensions (W x H x D)	50 x 15 x 65 mm
Power requirements	12 V DC, 45 mA
Weight	0.02 kg

TP-TXI1	**Indoor Twisted Pair Video Transmitter**	**2GF5605-8AA**

Transmission of one twisted pair video signal in indoor applications. Can be used with the indoor twisted pair receiver TP-RXI1, with a range of up to 600 m. Compact design, plastic housing with BNC video input and 10 cm open end twisted pair cable. Simple installation: snap on camera BNC video output. No additional measuring instruments required.

Video input (composite)	1 Vpp, 75 Ohm, asymmetric, BNC
Video output (two-wire)	2 Vpp, 130 Ohm, symmetric, open end
Range	Max. 600 m (indoor only)
Dimensions (W x H x D)	80 x 22 x 22 mm
Weight	0.20 kg
Power requirements	12 V DC
Power consumption	0.5 W

TP-RXI1	**Indoor Twisted Pair Video Receiver**	**2GF5605-8BB**

Reception of one twisted pair video signal in indoor applications. Can be used with the indoor twisted pair transmitter TP-TXI1, with a range of up to 600 m. Compact design, plastic housing with screw terminals and dip-switch setup. 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, screw terminal
Video output (composite)	1 Vpp, 75 Ohm, asymmetric, screw terminal
Range	Max. 600 m (indoor only)
Dimensions (W x H x D)	80 x 20 x 70 mm
Weight	0.20 kg
Power requirements	12 V DC
Power consumption	0.75 W

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Type		Order No.
TP-TXMOD02	**Twisted Pair Video Transmitter Module 2 Channel**	**2GF5604-8BA**

Twisted pair transmitter module for 2 video signals, suitable for mounting in TP-CH 19 chassis. Connects to TP-RXMOD02 receiver.

Range	< 1200 m with wire diameter 0.8 mm, PE-insulated with pre-emphasis switched on, with receiver module TP-RXMOD02
Signal/noise ratio	> 60 dB at 0 dB equalization, with weighting
Video input (composite)	1 Vpp, 75 Ohm, asymmetric
Video output (two-wire)	2, 2.4, 2.8, 3.2 Vpp into 124 Ohm, symmetric
Dimensions (W x H x D)	100 x 30 x 160 mm
Weight	0.12 kg
Power supply	From chassis TP-CH

TP-RXMOD02	**Twisted Pair Video Receiver Module 2 Channel**	**2GF5604-8BB**

Video receiver module for 2 twisted pair video signals, suitable for mounting in TP-CH 19 chassis. Connects to TP-TXMOD02 or CTTT0111 transmitter.

Range	< 1200 m with wire diameter 0.8 mm, PE-insulated with pre-emphasis switched on in the transmitter module TP-TXMOD02
Signal/noise ratio	> 60 dB at 0 dB equalization, with weighting
Dimensions (W x H x D)	100 x 30 x 160 mm
Weight	0.15 kg
Power supply	From chassis TP-CH

TP-CH	**Twisted Pair 19" 3U Chass for 10 Modules PSU**	**2GF5608-8BA**

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.

Video inputs	Asymmetric: SMB plug, Symmetric: terminal strip
Video outputs	Asymmetric: SMB plug, Symmetric: terminal strip
Dimensions (W x H x D)	482 x 133 x 250 mm
Weight	4.20 kg
Power requirements	90 to 240 V AC
Power consumption	40 W

Accessories Video Transmission

Type		Order No.
RS232-RS485	**Converter RS232 to RS485** Converts RS232 interface signals to RS485 interface signals. Weight 0.40 kg	**2GF5505-8AH**
RS232-TTY	**Converter RS232 to TTY** Converts RS232 interface signals to TTY interface signals. Weight 0.37 kg	**2GF5505-8AG**
VGI200	**Video Isolation Transformer** 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. Connections 2 x BNC, in and out Impedance 75 Ohm Housing Plastic Weight 0.227 kg	**GBQ:A5573460001**
VT/75	**VT/75-75 Video Transformer 75R** Achieves groundloop isolation on a video cable, i.e. removes earth loops. VT75-75 – 75 ohm coax in / 75 ohm coax out. Compatible with 'C' type telemetry. Dimensions (H x W x D) 41 x 32 x 90 mm Weight 0.20 kg	**BPZ:80-236**

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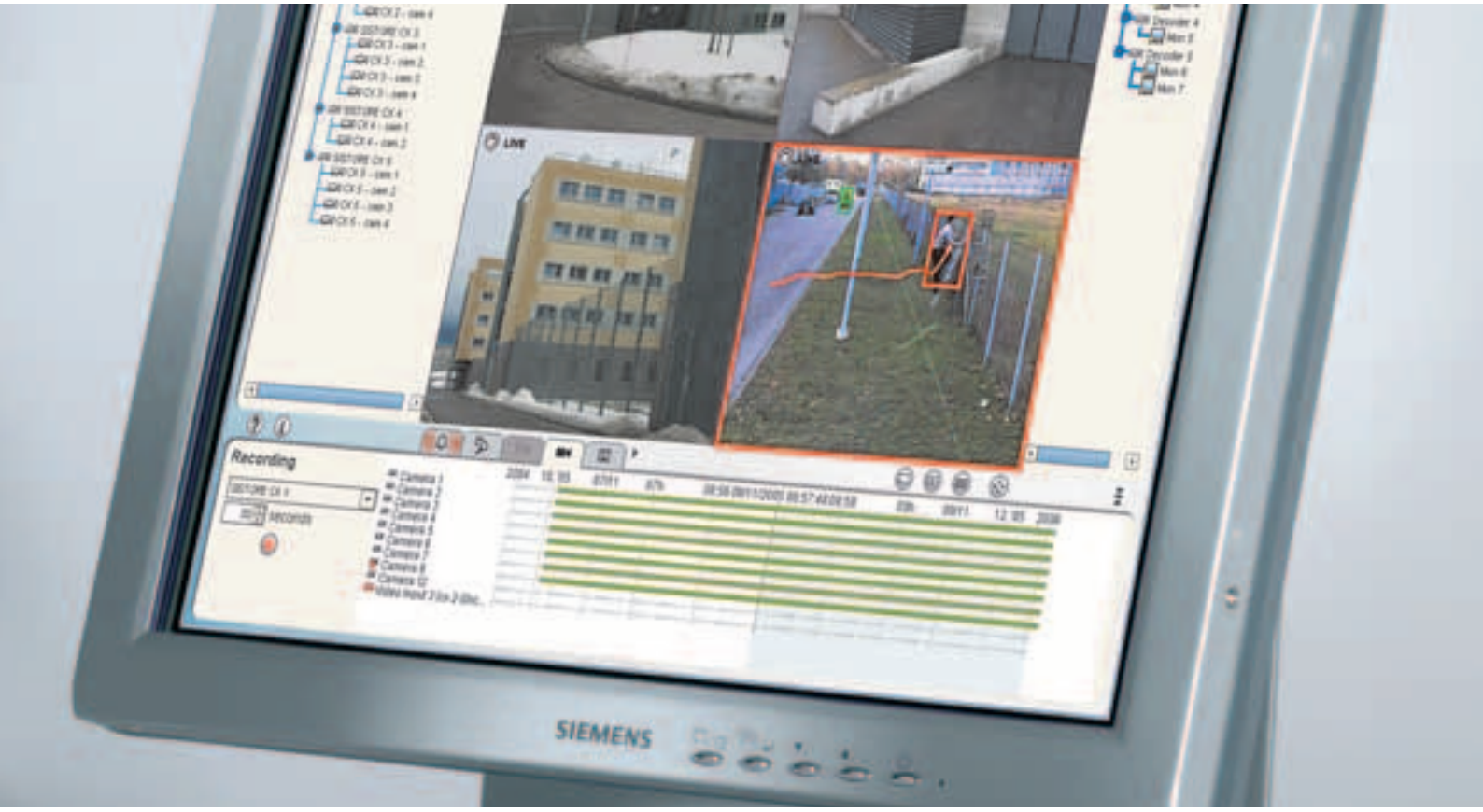
Video Motion Detection



Reliable outdoor video motion detection system...

SISTORE CX EDS (Enhanced Detection Solution) is a radically new high performance digital video analysis system. It is an intelligent embedded codec performing video streaming, recording and it operates as a professional outdoor video motion detection system, with object tracking – suitable for external installations such as prisons, airports, military compounds, and perimeter protection.

SISTORE CX EDS uses a statistical method analysis that actually looks in the past, continuously analysing the video stream throughout its history. Track length and direction of the object can also be set to ensure the highest detection rate, with very few false alarms and a continuing reliable system.

Video Motion Detection

Type		Order No.
SISTORE CX EDS	**Intelligent Video Detection System** SISTORE CX EDS is a video motion detection system featuring the latest Siemens technology for perimeter protection. Motion detection and object tracking are based on the latest statistical image analysis methods, optimized for use in critical outdoor areas. If SISTORE CX devices are used, MPEG4 video recording and transmission as well as a tamper detection function are additionally available. All functionalities can be optimally adapted to the actual environmental conditions using the configuration software. EDS (Enhanced Detection Solution) is a software option that is available for all devices of the SISTORE CX platform. After activation of this function, the standard motion detection functionality is extended. Activating is easily done by entering the requisite licence key in the configuration software.	**SISTORE CX EDS**
CX1 EDS	**EDS Software Option for SISTORE CX1 Motion Detection and Object Tracking for Critical Outdoor Areas.**	**S24245-P5101-A1**
CX4 EDS	**EDS Software Option for SISTORE CX4 Motion Detection and Object Tracking for Critical Outdoor Areas.**	**S24245-P5101-A2**
CX8 EDS	**EDS Software Option for SISTORE CX8 Motion Detection and Object Tracking for Critical Outdoor Areas.**	**S24245-P5101-A3**

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Quads, Video Distribution, Video Multiplexers

Video handling made easy with a range of quads, video multiplexers and video distribution

A range of video distribution equipment that allows either a combination, duplication or switching of different video sources, including video amplification. The range of sequential video switchers enable simple switching of different video sources to a single video monitor. The range of quads allows viewing up to four video signals to be displayed on the same on a monitor. The ranges of video distribution amplifiers multiply one video signal up to 16 separate video outputs.

Monochrome and Colour Quads

Type		Order No.
VQD100-RT	**Monochrome Quad Real-Time 12 V DC**	**2GF2001-8AE**

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 V DC, 1 A
Dimensions (W x H x D)	285 x 44 x 235 mm
Weight	1.70 kg
Power requirements	12 – 24 V AC / DC (230 V AC adapter supplied)

VQD300-RT — **Colour Quad Real-Time 12 V DC** — **2GF2001-8AF**

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.

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
Video inputs	4 x BNC, 75 Ohm
Alarm inputs	1 per camera
Alarm output relay	1 x Form-C (C, NO, NC), 24 V DC, 1 A
Dimensions (W x H x D)	285 x 44 x 235 mm
Weight	1.70 kg
Power requirements	12 – 24 V AC / DC (230 V AC adapter supplied)

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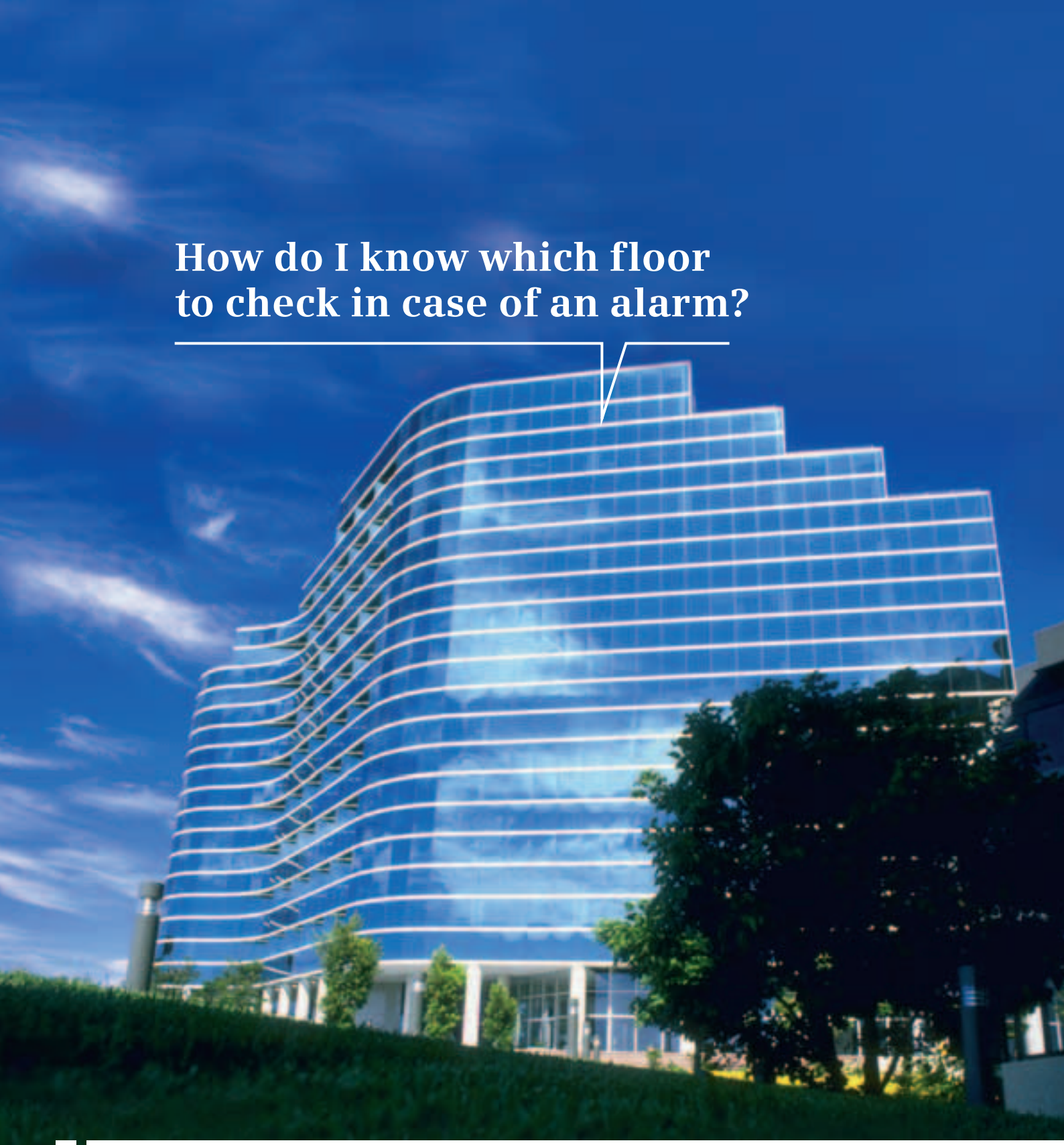
Amplifiers

Type		Order No.
VID101R	**VID101R Video Dist AMP 16 x 1** Receives video signal and provides multiple outputs, at same amplitude as input. VID101R operates from 240 V AC supply and has 16 x VID101, assembled to fit into a 19" rack. Power requirements: 110 – 240 V AC at 40 VA, 50/60 Hz Dimensions (W x H x D): 126 x 134 x 483 mm (inc. BNC's) Bandwidth: 10 MHz Weight: 3.38 kg	**BPZ:80-232**



How do I know which floor to check in case of an alarm?

Using interoperable access control, intrusion detection and video surveillance systems

The alarm can be easily located via the intrusion detection system, then verified with surveillance cameras while simultaneously recording, yet restricting access control rights within the building – all displayed and controlled via one screen.

www.siemens.com/interoperability

SIEMENS

Matrix Switching Systems

Video matrix switching made easy...

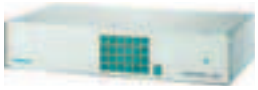
SIMATRIX is a universal video matrix, that is fully scaleable to fit individual application requirements. User functionalities are wide ranging, from the pure matrix switching function, up to special event control in conjunction with external contacts, notification messaging for the processing of danger, alarm and intrusion information (i.e. video motion detection system SISTORE CX EDS) or from SiPass access control systems.

SIMATRIX is ideal for a wide range of applications and system sizes. From smaller systems containing 16 video inputs and 8 video outputs, SIMATRIX is expandable up to 224 video inputs with a maximum of 32 video outputs.

SIMATRIX is designed to be operated from either CKA keyboards or via IVM video software, to allow easy video switching and telemetry control of PTZ devices.

- Connect up to 224 cameras and 32 monitors
- LCD display for system status
- Connection to IVM video software
- Sofware configuration tool included

Type		Order No.
SIMATRIX 164	**Compact Video Matrix 16x4, Non-Expandable**	**2GF2208-8BA**



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 variable speed control of PTZ and dome devices when used with a CKA4820 and CAC0103 dome converter. Fixed speed control using the Siemens 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.

Television standard	PAL/CCIR
Camera inputs	16 x BNC, 1Vpp, 75 Ohm
Monitor output	4 x BNC, 1 Vpp, 75 Ohm
Camera sequences	1 sequence per monitor output, 32 defineable cycles
Alarm inputs	16 x
Parameterisation PC	1 x V.24 (RS232C)
Telemetry control	8 x TTY outputs (20 mA current loop)
Control outputs	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
Weight	4.70 kg
Power requirements	220 – 240 V AC, 50 Hz switchable to 110 – 120 V AC, 60 Hz
Power consumption	18 W

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Type		Order No.
SIMATRIX 648 V3	**Compact Video Matrix 16x4, Expandable**	**2GF2208-8EA**

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

Television standard	PAL/CCIR
Camera inputs	16 x BNC, 1Vpp, 75 Ohm, max 64 with SIM648-IM
Monitor output	4 x BNC, 1 Vpp, 75 Ohm, max 8 with SIM648-OM V3
Camera sequences	1 sequence per monitor output, 32 defineable cycles
Alarm inputs	16 x, max 64 with SIM648-IO
Parameterisation PC	1 x V.24 (RS232C)
Telemetry control	8 x TTY outputs (20 mA current loop), max 32 with SIM648-IO
Control outputs	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 133 x 210 mm
Weight	4.30 kg
Power requirements	220 – 240 V AC, 50 Hz switchable to 110 – 120 V AC, 60 Hz

SIM648-IM	**SIMATRIX 648 Extension Module for 16 Camera Inputs**	**2GF2208-8AB**

Input module (matrix card 16/8) to expand the SIMATRIX 648 in steps of 16 video inputs (max 64 video inputs).

Camera inputs	16 video in
Weight	0.24 kg

SIM648-OM V3	**SIMATRIX 648 V3 Extension Module for 4 Monitor Outputs**	**2GF2208-8EB**

Output module to expand the SIMATRIX 648 V3 by 4 video outputs with text overlay/OSD (max 8 video outputs).

Weight	0.03 kg

SIM648-OM	**SIMATRIX 648 Extension Module for 4 Monitor Outputs**	**2GF2208-8AC**

Output module to expand the discontinued SIMATRIX 648 by 4 video outputs with text overlay/OSD (max 8 video outputs).

SIM648-TM	**SIMATRIX 648 Extension Module for 2 Terminal / Keyboard Interfaces**	**2GF2208-8AD**

To expand the SIMATRIX 648 for connection of two further CKA or SUT48 keyboards (max. 4).

Weight	0.35 kg

Type		Order No.
SIM648-IO	**SIMATRIX 648 Extension Module 16 Alarm In / 8 TTY Out** Module to expand the SIMATRIX 648 video matrix by 8 TTY telemetry control outputs (max. 32) and 16 alarm inputs (max. 64). Weight: 0.06 kg	**2GF2208-8AE**
SIM648-MO	**SIMATRIX 648 Preconfiguration (Make to Order)** When using this order number together with an order of SIMATRIX 648 components, the components will be preconfigured in the factory and delivered in one together.	**2GF2208-8AF**
SIMNEO 16X8	**SIMATRIX NEO Compact Modular Video Matrix 16x8, Expandable** SIMATRIX NEO is a video matrix that can be expanded up to a maximum of 224 inputs and 32 outputs using both main and extension chassis. The SIMATRIX NEO is a space-saving 19-inch complete system in a desktop housing, commencing with a basic configuration of 16 inputs, 8 outputs and 32 alarms, and includes an LCD display for diagnostic information. The SIMATRIX NEO is a freely-parameterisable and universally applicable video matrix switching system, including straight forward setup software for up and downloading of settings. The application range extends from the pure matrix function up to event-controlled control alarm receiving centres, in conjunction with external alarm contacts or messages for processing danger, alarm and intruder signals. IVM is an optional, user-friendly graphical interface for the SIMATRIX NEO. Operation is possible via the CKA4820 remote keyboard. Television standard: PAL/CCIR Camera inputs: 16 x BNC, 1Vpp, 75 Ohm, max 128 with SIMNEO-IM, termination switchable with jumpers Monitor output: 8 x BNC, 1 Vpp, 75 Ohm, max 32 with SIMNEO-OM Camera sequences: 1 sequence per monitor output, 32 defineable cycles Alarm inputs: 32 x, max 256 with SIMNEO-A128 Parameterisation PC: 1 x V.24 (RS232C) Telemetry control: 16 x TTY outputs (20 mA current loop) Telemetry control RS485: 4 RS485 ports protocols: CCDA, SCU, SIVIS, PELCO-D, 16xRJ11 Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Control outputs: 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): 441 x 266 x 217 mm, 19", 6 U Weight: 6.50 kg Power requirements: 115 – 230 V AC, 50-60 Hz Power consumption: Max. 55 W	**2GF2211-8AA**
SIMNEO IM	**SIMATRIX NEO Extension Module for 16 Camera Inputs** Input module (matrix card 16/32) to expand the SIMATRIX NEO SIM NEO-168 and SIMNEO-EXT in steps of 16 video inputs. Camera inputs: 16 video in, 75 Ohm termination switchable Weight: 0.24 kg	**2GF2211-8CA**

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Type		Order No.
SIMNEO OM	**SIMATRIX NEO Main Chassis Extension Module for 8 Monitor Outputs** Output module to expand the SIMATRIX NEO SIMNEO-168 by 8 video outputs with text overlay/OSD (max 32 video outputs). Weight: 0.03 kg	**2GF2211-8DA**
SIMNEO SOM	**SIMATRIX NEO Extension Chassis Extension Module for 8 Monitor Outputs** Output module to expand the SIMATRIX NEO SIMNEO-EXT by 8 video outputs without text overlay/OSD (max 32 video outputs).	**2GF2211-8DB**
SIMNEO A128	**Alarm Box Incl. 128 Alarm Inputs** Alarm box for expansion of the SIMATRIX NEO alarm inputs in steps, 128 Alarm-Inputs in 19"-Rack Device, 1 HU Alarm inputs: 128 x Interfaces: SysLink for communication with SIMNEO-168 Design: 19-inch rack mountable; 1U Power requirements: 115 – 230 V AC, Tolerance: +10 % to -15 %, 50-60 Hz switchable Dimensions (W x H x D): 449 x 44 x 206 mm Weight: 2.50 kg	**2GF2211-8EA**
SIMATRIXNEO-EXP168	**SIMATRIX NEO Matrix Extension Bay 32x16, Expandable** Extension chassis for the SIMATRIX NEO, including 32 camera inputs and 16 monitor outputs for connection to SIMNEO-168 master chassis. Connection to the basic chassis via 1x RS485 high-speed asynchronous, internal (maximum 1 extension chassis). Camera inputs: 32 x BNC video in, 1Vpp, 75 Ohm, max 240 with SIMNEO168 Design: 19-inch rack mountable; 6 HU Monitor output: 16 x BNC, 1 Vpp, 75 Ohm, max 32 with SIMNEO-SOM Alarm inputs: 32 x, max 256 with SIMNEO-A128 Interfaces: SysLink for communication with SIMNEO-168 Television standard: PAL/CCIR Power requirements: 115 – 230 V AC, 50-60 Hz Weight: 6.30 kg	**2GF2211-8AB**

Type		Order No.
SIMNEO Preconf..	**SIMATRIX NEO Preconfigured**	**SIMATRIX NEO..**

Preconfigured constellations of SIMATRIX NEO. SIMATRIX NEO is a video matrix that can be expanded up to a maximum of 224 inputs and 32 outputs using both main and extension chassis. The SIMATRIX NEO is a space-saving 19-inch complete system in a desktop housing, commencing with a basic configuration of 16 inputs, 8 outputs and 32 alarms and includes an LCD display for diagnostic information. The SIMATRIX NEO is a freely-parameterisable and universally applicable video matrix switching system, including straight forward setup software for up and downloading of settings. The application range extends from the pure matrix function up to event-controlled control alarm receiving centres, in conjunction with external alarm contacts or messages for processing danger, alarm and intruder signals. IVM is an optional, user-friendly graphical interface for the SIMATRIX NEO. Operation is possible via the CKA4820 remote keyboard.

Baud rate	1200-19.200 bit/s
Alarm output relay	1
Control outputs	8 control outputs (open-collector); max. 30 V, max. 50 mA, Relay with 2 floating changeover contacts for common alarm output
Character height	18 screen lines
Character representation	White black border
Camera sequences	1 sequence per monitor output, 32 defineable cycles
Telemetry	RS422, RS485, TTY
Telemetry control	16 x TTY outputs (20 mA current loop)
Telemetry control RS485	4 RS485 ports protocols: CCDA, SCU, SIVIS, PELCO-D, 16xRJ11
Television standard	PAL/CCIR
Distance SCU to SIMATRIX	Up to 2 km with 0,8 mm diameter
Parameterisation PC	1 x V.24 (RS232C)
Keyboard interface	8 x TTY interface (20 mA) with power supply for external keyboard (200 mA), RJ12
Video loss detection	Full automatic
Field size	12 text lines with 24 character each
Matrix point switching time	80 ms (typical.), 200 ms (max.) (following command input on video matrix)
OSD	Full IBM character set Internal synchronization
Power requirements	115 – 230 V AC, Tolerance: +10 % to -15 %, 50-60 Hz switchable
Power consumption	Max. 55 W, depending on size

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Type		Order No.
SIMATRIX NEO 32x8	**Matrix Switching System 32x8, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 32 x Monitor output: 8 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 32 x, max 256 with SIMNEO-A128 Design: 19-inch rack mountable; 6 U Dimensions (W x H x D): 441 x 266 x 217 mm, 19", 6 U Weight: 6.74 kg	**2GF2211-8JA**
SIMATRIX NEO 64x8	**Matrix Switching System 64x8, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 64 x Monitor output: 8 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 32 x, max 256 with SIMNEO-A128 Design: 19-inch rack mountable; 6 U Dimensions (W x H x D): 441 x 266 x 217 mm, 19", 6 U Weight: 7.22 kg	**2GF2211-8JB**
SIMATRIX NEO 96x8	**Matrix Switching System 96x8, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 96 x Monitor output: 8 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 32 x, max 256 with SIMNEO-A128 Design: 19-inch rack mountable; 6 U Dimensions (W x H x D): 441 x 266 x 217 mm, 19", 6 U Weight: 7.70 kg	**2GF2211-8JC**
SIMATRIX NEO 128x8	**Matrix Switching System 128x8, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 128 x Monitor output: 8 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 32 x, max 256 with SIMNEO-A128 Design: 19-inch rack mountable; 6 U Dimensions (W x H x D): 441 x 266 x 217 mm, 19", 6 U Weight: 8.18 kg	**2GF2211-8JD**

Type		Order No.
SIMATRIX NEO 16x16	**Matrix Switching System 16x16, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 16 x Monitor output: 16 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 32 x, max 256 with SIMNEO-A128 Design: 19-inch rack mountable; 6 U Dimensions (W x H x D): 441 x 266 x 217 mm, 19", 6 U Weight: 6.53 kg	**2GF2211-8KA**
SIMATRIX NEO 32x16	**Matrix Switching System 32x16, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 32 x Monitor output: 16 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 32 x, max 256 with SIMNEO-A128 Design: 19-inch rack mountable; 6 U Dimensions (W x H x D): 441 x 266 x 217 mm, 19", 6 U Weight: 6.77 kg	**2GF2211-8KB**
SIMATRIX NEO 64x16	**Matrix Switching System 64x16, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 64 x Monitor output: 16 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 32 x, max 256 with SIMNEO-A128 Design: 19-inch rack mountable; 6 U Dimensions (W x H x D): 441 x 266 x 217 mm, 19", 6 U Weight: 7.25 kg	**2GF2211-8KC**
SIMATRIX NEO 96x16	**Matrix Switching System 96x16, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 96 x Monitor output: 16 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 32 x, max 256 with SIMNEO-A128 Design: 19-inch rack mountable; 6 U Dimensions (W x H x D): 441 x 266 x 217 mm, 19", 6 U Weight: 7.73 kg	**2GF2211-8KD**

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Type		Order No.
SIMATRIX NEO 128x16	**Matrix Switching System 128x16, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 128 x Monitor output: 16 x Interfaces: 8 x TTY-(20mA) for CKAs, 16 x SCU-(20mA)-Interface for CDC Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 32 x, max 256 with SIMATRIX NEO-A128 Design: 19-inch rack mountable; 6 U Dimensions (W x H x D): 441 x 266 x 217 mm, 19", 6 U Weight: 8.21 kg	**2GF2211-8KE**
SIMATRIX NEO 160x16	**Matrix Switching System 160x16, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 160 x Monitor output: 16 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 64 x, max 256 with SIMNEO-A128 Design: 2 x 19-inch rack mountable; 12 U Dimensions (W x H x D): 441 x 532 x 217 mm, 19", 12 U Weight: 15.02 kg	**2GF2211-8KF**
SIMATRIX NEO 224x16	**Matrix Switching System 224x16, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 224 x Monitor output: 16 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 64 x, max 256 with SIMNEO-A128 Design: 2 x 19-inch rack mountable; 12 U Dimensions (W x H x D): 441 x 532 x 217 mm, 19", 12 U Weight: 15.98 kg	**2GF2211-8KG**
SIMATRIX NEO 32x32	**Matrix Switching System 32x32, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 32 x Monitor output: 32 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 32 x, max 256 with SIMNEO-A128 Design: 19-inch rack mountable; 6 U Dimensions (W x H x D): 441 x 266 x 217 mm, 19", 6 U Weight: 6.83 kg	**2GF2211-8LA**

Type		Order No.
SIMATRIX NEO 64x32	**Matrix Switching System 64x32, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 64 x Monitor output: 32 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 32 x, max 256 with SIMNEO-A128 Design: 19-inch rack mountable; 6 U Dimensions (W x H x D): 441 x 266 x 217 mm, 19", 6 U Weight: 7.31 kg	**2GF2211-8LB**
SIMATRIX NEO 96x32	**Matrix Switching System 96x32, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 96 x Monitor output: 32 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 32 x, max 256 with SIMNEO-A128 Design: 19-inch rack mountable; 6 U Dimensions (W x H x D): 441 x 266 x 217 mm, 19", 6 U Weight: 7.79 kg	**2GF2211-8LC**
SIMATRIX NEO 128x32	**Matrix Switching System 128x32, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 128 x Monitor output: 32 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 32 x, max 256 with SIMNEO-A128 Design: 19-inch rack mountable; 6 U Dimensions (W x H x D): 441 x 266 x 217 mm, 19", 6 U Weight: 8.27 kg	**2GF2211-8LD**
SIMATRIX NEO 160x32	**Matrix Switching System 160x32, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 160 x Monitor output: 32 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 64 x, max 256 with SIMNEO-A128 Design: 2 x 19-inch rack mountable; 12 U Dimensions (W x H x D): 441 x 532 x 217 mm, 19", 12 U Weight: 15.14 kg	**2GF2211-8LE**

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Type		Order No.
SIMATRIX NEO 208x32	**Matrix Switching System 208x32, Preconf., Expandable** As SIMNEO Preconf.. for technical details, but with the following differences: Camera inputs: 208 x Monitor output: 32 x Interfaces: SysLink for communication with SIMNEO-EXT and SIMNEO-A128 Alarm connector: 2 x 37-pin Sub-D-Female connector Alarm inputs: 64 x, max 256 with SIMNEO-A128 Design: 2 x 9-inch rack mountable; 12 U Dimensions (W x H x D): 441 x 532 x 217 mm, 19", 12 U Weight: 15.86 kg	**2GF2211-8LF**
V3-ISU	**Visilynx 3 Integrated System Unit 32 x 8** Visilynx 3i is a powerful, feature rich, and cost effective integrated video matrix system. Built around its Integrated System Unit (ISU) building block, and installer configurable via configuration software that runs on a laptop PC, Visilynx 3i offers an off-the-shelf solution for the vast majority of video matrix applications. One or two Visilynx quad cards may be fitted in the ISU's internal card slots to provide additional quad screen video outputs. Power requirements: 100 – 240 V AC, 47-63 Hz Power consumption: 100 W Telemetry: RS485 Telemetry control RS485: Pelco D*, Dennard*, JVC*, Sensormatic*, Kalatel*, Vista*, VCL*, Ultrak*, Mic1*. *Customers are advised to check with Customer Support before ordering whether the support for the dome they require is available. Television standard: PAL/CCIR Video loss detection: Automatic Ambient temperature, storage: 0° C to 50° C operating Alarm inputs: 128 Camera inputs: 32 Monitor output: 8 x BNC, 1 Vpp, 75 Ohm OSD: Camera text, alarm and user input data. Full IBM character set Internal synchronisation Design: 19- inch rack mountable; 3 HU Parameterisation PC: 1 x V.24 (RS232C) Field size: OSD text on each monitor output Keyboard interface: Max. 32 keyboards Dimensions (W x H x D): 445 x 135x 368 mm (without feet) 445 x 150 x 368 mm (with feet) Weight: 9.0 kg	**BPZ:80-225**

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Accessories Matrix Switching Systems

Type		Order No.
SIM-PC	**Remote Setup Interface Cable for SIMATRIX Video Matrix** 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. Length 2 m Weight 0.1 kg	**2GF2208-8AG**
SIM-CC3	**SIMATRIX Interface Cable to Keyboard CKA, 3 m** For connection of a keyboard to the video matrix SIMATRIX SYS, 648, 164 with plug connectors. Length 3 m Weight 0.1 kg	**2GF2207-8AE**
SIM-CC7	**SIMATRIX Interface Cable to Keyboard CKA, 7 m** For connection of a keyboardl to the video matrix SIMATRIX SYS, 648, 164 with plug connectors. Length 7 m Weight 0.34 kg	**2GF2207-8AF**
SIM-CC10	**SIMATRIX Interface Cable to Keyboard CKA, 10 m** For connection of a keyboardl to the video matrix SIMATRIX SYS, 648, 164 with plug connectors. Length 10 m Weight 2.2 kg	**2GF2207-8AG**
SIM-SMB/BNC	**SMB to BNC Coaxial Cable 2 m** RG179 Coaxial cable with a prefitted SMB socket and a BNC plug, 2 m Length 2 m Weight 0.05 kg	**2GF5608-8AP**

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Accessories Matrix Switching Systems

Type		Order No.
CAC0101	**Protocol Converter TTY-TTL**	**2GF5505-8BA**

This converter module converts the SIMATRIX TTY SCU telemetry control to interface with remote controllable cameras CCxx1225 K500, K505 and CCxx1315. It should be mounted in a protective housing.

Baud rate	2400...19K2 selectable
Power consumption	1 W
Power requirements	12 V DC
Dimensions (W x H x D)	112 x 23 x 60 mm
Telemetry formats	Input: TTY (SCU protocol), Output: TTL device specific
Weight	0.20 kg

CAC0103 — **Protocol Converter TTY-RS485** — **S24245-F5046-A1**

This converter module converts the SIMATRIX TTY SCU telemetry control to interface with remote controllable cameras CCBS1337, CCWC1335 and functional domes CCDA1425/CCDA1435, Molynx-D CCDA1410/CCDA1415 and PELCO -P controller. It will directly work with the CKA4820 and CKA3210.

Baud rate	2400...19K2 selectable
Power consumption	2 W
Power requirements	12 V DC
Dimensions (W x H x D)	130 x 180 x 40 mm
Weight	0.60 kg
Telemetry formats	Input: TTY (SCU protocol), Output: RS485 device specific

CAD0485-AA — **RS485 Distribution Amplifier** — **S24245-F5047-A1**

This unit amplifies one RS422/485 input to 8 x RS422/485 outputs for point to point star configuration. It is for universal usage and works directly with CAC0103. The output is designed for a maximum load of 10 devices per RS485 line.

Baud rate	2400...19K2 selectable
Inputs	1 x RS422/485; termination selectable
Outputs	8 x RS422/485; termination selectable
Power consumption	6 W
Power requirements	12 V DC
Dimensions (W x H x D)	130 x 180 x 40 mm
Weight	0.60 kg

SIM648-SW/SIP — **SIPORT Interface Kit for SIMATRIX 648** — **2GF2208-8AM**

This interface kit enables the interface to the SIPORT access control system via RS232 com port 3 of SIMATRIX 648. It includes special firmware delivered on an EPROM and Software license.

Weight	0.01 kg

Accessories Matrix Switching Systems

Type		Order No.
SIM648-SW/DMS	**TOPSIS/GMA Interface Kit for SIMATRIX 648 to DMS Interface** This interface kit enables the interface to the TOPSIS/GMA via RS232 com port 3 of SIMATRIX 648. It includes special firmware delivered on an EPROM and Software license. Weight 0.05 kg	**2GF2208-8AK**
CAC1601	**Coax Controller Unit** This converter is a combined coaxial telemetry transmitter, telemetry protocol converter and 16 by 4 video switcher. It allows Siemens Solaris™ speed domes and telemetry receivers to be controlled over the coax using up to 2 simultaneous telemetry control sources, as detailed in the system overview below. - Video Inputs: 16 loop through C-Type channels - Video Outputs: 4 controllable monitor outputs (2 with PAL on-screen text) - Telemetry inputs: 2 RS485/1 dual channel, USB Telemetry channel - Protocol support: Siemens CCDA, Siemens SCU, Bewator Molynx, Bewator PC-CON, Ernitec ERNA, Pelco D, Pelco P, VCL, Vicon, Videmech Universal protocol - Set up: LCD with adjacent control keys Power consumption 1.25 VA Power requirements 12 V DC Telemetry formats 2 x RS485 / 1 dual channel, USB telemetry channels Weight 2.50 kg	**2GF1194-8BM**
VC-3K	**VC-3K Visilynx 3 Keyboard Cable** The keyboard cable is used to connect a Visilynx keyboard to the Visilynx video matrix. Dimensions (W x H x D) Length 1 m Weight 0.14 kg	**BPZ:80-229**
VC-3E	**VC-3E Visilynx 3i ISU Expansion Cable** The expansion cable is used to connect two 32 x 8 V3i Integrated System Units (ISUs) together to form a 64 x 16 full matrix node. The cable links video and control signals between the ISUs and is the only cable required for linking. Dimensions (W x H x D) Length 1 m Weight 0.7 kg	**BPZ:80-228**
PCBV331	**Visilynx Alarm Input Panel** The Alarm Panel is designed to fit into a standard 19" rack cabinet. 128 Inputs for interfacing the Visilynx alarm input panel with the V3I Matrix, the additional 37-way Alarm cable VC-Alarm, that is not part of the delivery, is required. Inputs Max. 128 Weight 0.7 kg	**BPZ:80-221**

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Type			Order No.
VC-ALARM	**VC-Alarm Visilynx 3 Alarm-Cable**		**BPZ:80-230**
	Visilynx 3 alarm cable		
	Dimensions (W x H x D)	Length 1 m	
	Weight	0.24 kg	
VC-PCCON	**VC-PCCON Visilynx 3 PCCON Cable**		**BPZ:80-222**
	The PCCON cable is used to interface the Visilynx 3 to a PCCON control device.		
	Dimensions (W x H x D)	Length 1 m	
	Weight	0.18 kg	
VC-3CONFIG	**VC-3CONFIG Visilynx 3 Conf.-Cable**		**BPZ:80-227**
	Weight	0.70 kg	
V3-QUAD	**Visilynx 3 Colour Quad-Module**		**BPZ:80-226**
	Displays four, high-resolution colour pictures on a single Visilynx 3 video output in real time, with each segment controllable from the Visilynx keyboard as a separate monitor number. Will display the inputs in quad format in a specified order, or any one input as full-screen. One or two quad cards can be fitted in a Visilynx 3 Integrated System Unit (V3-ISU), separate composite and S-Video outputs are available on the rear panel. Each segment can be independently frozen. Time-base correction of video inputs ensures high quality pictures without the need for external camera synchronisation. Each picture segment is frozen when the source input is switched, in both full-screen and quad mode, to prevent picture roll. All the inputs have AGC to preserve clear images independent of differences in picture levels. Colour text insertion on the monitor output. Self-test fault diagnostics.		
	Inputs	4 from the 16 available from the Visilynx Integrated System Unit. Inputs time-base corrected and with AGC.	
	Outputs	Separate Composite and S-Video outputs available. Will display 4 inputs in quad format in a specified order, or any 1 input as full-screen. Each segment can be independently frozen.	
	Dimensions (W x H x D)	220 x 100 mm 3U Visilynx 3 Euro card	
	Weight	0.140 kg	

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Recording systems SISTORE AX...

SISTORE AX Watch
Allows live remote viewing of cameras from single or multiple sites, including full PTZ control.

... for up to 16 cameras.

SISTORE – innovation and technology for recording in all applications, from standalone to networked

The range of SISTORE™ digital video systems provide digital surveillance and image recording that can be used in a multitude of applications. This can be from small shops, to shopping centres, offices or large scale industrial facilities – the systems are designed with system performance and reliability, to meet the demanding security needs required for today's applications.

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

- SISTORE MX – hybrid recording system
- SISTORE CX – intelligent digital video Codec
- SISTORE AX – traditional digital recorder

Digital Video Recorders

	SISTORE AX4 Lite	SISTORE AX4 160/100	SISTORE AX8/AX16 250/100	SISTORE AX9/AX16 250/200
Display				
Video inputs with looping outputs	4	4	8/16	9/16
Monitor outputs	1 x Main monitor	1 x Main monitor	1 x Main monitor, 1 x Spot	1 x Main monitor, 4 x Spot
Audio inputs and outputs		4 and 1		4 and 1
Freeze/zoom image	■	■	■	■
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), 4 x 4 (hex)	1 (full screen), Picture-in-Picture (PiP), 2 x 2 (quad), 3 x 3 (nono), 4 x 4 (hex)
Covert camera mode	■	■	■	■
Recording				
Maximum recording speed – no local playback	100 ips	100 ips	100 ips	200 ips
Maximum recording speed – during local playback	50 ips	50 ips	25 ips	100 ips
Maximum recording speed – playback via RAS software	100 ips	100 ips	100 ips	200 ips
Panic button (recording)	■	■		■
Triplex mode				■
Alarms				
Alarm inputs and outputs	4 and 2	4 and 2	8/16 and 2/2	9/16 and 9/16
Video loss detection	■	■	■	■
Activity detection	192 zones	192 zones	192 zones	256 zones
Internal buzzer	■	■	■	■
Alarm log	■	■	■	■
Watchdog alarm (system/hard drive)	■	■	■	■
S.M.A.R.T. self-diagnosis	■	■	■	■
Operation				
PTZ / dome control		■	■	■
Fast forward/rewind control	3 speed levels adjustable	3 speed levels adjustable	3 speed levels adjustable	3 speed levels adjustable
Password protection	2 user levels	2 user levels	Customisable, 64 user groups, 256 users per group	Customisable, 64 user groups, 256 users per group
Remote keyboard control	■	■	■	■
Infrared remote control or mouse	IR remote control		Mouse	■
Connection options				
Ethernet LAN/WAN (10/100 Mbps)	■	■	■	■
External modem (ISDN/PSTN)	■	■	■	■
Remote control via RAS (license-free)	■	■	■	■
Text overlay interface (ATM, POS)	■	■	■	■
Export/backup				
Export of images via network	Clip-Player, AVI, JPG or BMP	Clip-Player, AVI, JPG, BMP	Clip-Player, AVI, JPG, BMP	Clip-Player, AVI, JPG, BMP
Image backup/archive	via USB	via USB	via USB / DVD writer (int.)	via USB / SCSI / DVD writer (int.)
Hard disk expansion possibility		■	■	■

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Type		Order No.
SISTORE AX..	**Digital Video Recorder** Compression: MPEG4 Technology Resolution (H x V): PAL: 720 x 576 NTSC: 720 x 480	**SISTORE AX..**
AX4 Lite 160/100	**SISTORE AX4 Lite , 160 GB, 100 ips** As SISTORE AX.. for technical details, but with the following differences: SISTORE AX4 Lite is a Digital Video Recorder (DVR) with four video inputs in a compact desktop housing. The device combines real-time recording across all cameras with a great deal of functionality in one box. SISTORE AX4 Lite is configured and operated via front panel buttons, IR remote control, remote keyboard, or Remote Access Software (RAS). The device allows the recording of up to 100 images per second for time-lapse, event-based or pre-event recordings. Recording speed: Up to 100 ips PAL Up to 120 ips NTSC Video inputs: 4 x PAL / NTSC (auto-detect), BNC, 75 Ohm, loop-thru Alarm inputs/outputs: 4 x / 2 x NO or NC contacts Interfaces: 1 x USB, 1 x RS232, 1 x Ethernet Hard disk capacity: 160 GB Backup recording media: USB (Hard Disk, CD-R, Flash) Display format: 1 (full screen), 2 x 2 (quad) Monitor output: 1 x BNC, 1 x VGA Dimensions (W x H x D): 340 x 46.5 x 310 mm Power consumption: 60 W Power requirements: 100 - 240 V AC, 0.6 A, 50/60 Hz Weight: 3.20 kg	**2GF4816-8GA**
AX4 160/100	**SISTORE AX4, 160 GB, 100 ips** As SISTORE AX.. for technical details, but with the following differences: SISTORE AX is a standard Digital Video Recorder (DVR). It combines fast recording across all cameras 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. With the accompanying Remote Access Software (RAS) multiple units can be controlled via Ethernet, DSL or dial-up connection. The DVR is capable of audio recording and playback. Connect a Siemens speed dome for full telemetry control. Recording speed: Up to 100 ips PAL Up to 120 ips NTSC Video inputs: 4 x PAL / NTSC (auto-detect), BNC, 75 Ohm, loop-thru Audio inputs: 4 Alarm inputs/outputs: 4 x / 2 x NO or NC contacts Interfaces: 1 x USB, 1 x RS485, 1 x RS232, 1 x Ethernet Hard disk capacity: 160 GB (expandable) Backup recording media: USB (Hard Disk, CD-R, Flash) Display format: 1 (full screen), 2 x 2 (quad) Monitor output: 1 x BNC, 1 x S-VHS, 1 x VGA Dimensions (W x H x D): 430 x 44 x 352 mm Weight: 5.60 kg Power consumption: 38 W Power requirements: 100 – 240 V AC, 0.7 A, 50/60 Hz	**2GF4816-8AF**

Type		Order No.
AX8 250/100	**SISTORE AX8, DVD, 250 GB, 100 ips** As SISTORE AX.. for technical details, but with the following differences: As SISTORE AX.. for technical details, but with the following differences: SISTORE AX with internal DVD writer is a multifunctional digital recording system with a recording speed of up to 100 images per second for time lapse, event-driven and pre-alarm recordings. The intuitive user interface and front panel control ensure a fast installation and simple operation. With integral USB interfaces it is possible to backup video data on hard disk drives, CD-R or flash drives. Various network interfaces allow remote access to the system, furthermore PTZ cameras and CKA4820 remote keyboards can be connected.	**2GF4816-8HA**

Recording speed	Up to 100 ips PAL Up to 120 ips NTSC
Video inputs	8 x PAL / NTSC (auto-detect), BNC, 75 Ohm, loop-thru
Alarm inputs/outputs	8 x / 2 x NO or NC contacts
Monitor output	1 Composite, 1 SPOT 1 x VGA: 800x600 @ 60 Hz
Dimensions (W x H x D)	430 x 88 x 405 mm (16.9" x 3.5" x 15.9")
Weight	10.20 kg
Power consumption	80 W (100 W when 3 hard disk drives are installed)
Power requirements	100 – 240 V AC, 2 A, 50/60 Hz

AX16 250/100	**SISTORE AX16, DVD, 250 GB, 100 ips** As SISTORE AX.. for technical details, but with the following differences: As SISTORE AX.. for technical details, but with the following differences: SISTORE AX with internal DVD writer is a multifunctional digital recording system with a recording speed of up to 100 images per second for time lapse, event-driven and pre-alarm recordings. The intuitive user interface and front panel control ensure a fast installation and simple operation. With integral USB interfaces it is possible to backup video data on hard disk drives, CD-R or flash drives. Various network interfaces allow remote access to the system, furthermore PTZ cameras and CKA4820 remote keyboards can be connected.	**2GF4816-8JA**

Recording speed	Up to 100 ips PAL Up to 120 ips NTSC
Video inputs	16 x PAL / NTSC (auto-detect), BNC, 75 Ohm, loop-thru
Alarm inputs/outputs	16 x / 2 x NO or NC contacts
Monitor output	1 Composite, 1 SPOT 1 x VGA: 800x600 @ 60 Hz
Dimensions (W x H x D)	430 x 88 x 405 mm (16.9" x 3.5" x 15.9")
Weight	10.20 kg
Power consumption	80 W (100 W when 3 hard disk drives are installed)
Power requirements	100 – 240 V AC, 2 A, 50/60 Hz

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Type		Order No.
AX9 250/200	**SISTORE AX9, DVD, 250 GB, 200 ips**	**2GF4816-8EB**

As SISTORE AX.. for technical details, but with the following differences:

SISTORE AX with internal DVD writer is a multifunctional digital recording system with a recording speed of up to 200 images per second for time lapse, event-driven and pre-alarm recordings together with the recording of four audio channels. The intuitive user interface and front panel control ensure a fast installation and simple operation. With integral USB and SCSI interfaces it is possible to backup video data on hard disk drives, CD-R or flash drives. Various network interfaces allows remote access to the system, furthermore PTZ cameras and CKA4820 remote keyboards can be connected.

Recording speed	Up to 200 ips (PAL) Up to 240 ips (NTSC)
Video inputs	9 x PAL / NTSC (auto-detect), BNC, 75 Ohm, loop-thru
Audio inputs	4
Alarm inputs/outputs	9 x / 9 x NO or NC contacts
Interfaces	3 x USB, 1 x SCSI, 1 x RS485, 1 x RS232, 1 x Ethernet
Hard disk capacity	250 GB (expandable)
Backup recording media	USB (Hard Disk, CD-R, Flash), SCSI (RAID), internal DVD writer
Display format	1 (full screen), 2 x 2 (quad) 3 x 3 (multi screen), PIP
Monitor output	1 x Composite, 1 x S-VHS, 1 x VGA, 4 x SPOT
Dimensions (W x H x D)	430 x 88 x 405 mm (16.9" x 3.5" x 15.9") mm
Weight	10.20 kg
Power consumption	85 W (120 W when 3 hard disk drives are installed)
Power requirements	100 – 230 V AC, 2 A, 50/60 Hz

Type		Order No.
AX16 250/200	**SISTORE AX16, DVD, 250 GB, 200 ips**	**2GF4816-8FB**

As SISTORE AX.. for technical details, but with the following differences:

SISTORE AX with internal DVD writer is a multifunctional digital recording system with a recording speed of up to 200 images per second for time lapse, event-driven and pre-alarm recordings together with the recording of four audio channels. The intuitive user interface and front panel control ensure a fast installation and simple operation. With integral USB and SCSI interfaces it is possible to backup video data on hard disk drives, CD-R or flash drives. Various network interfaces allows remote access to the system, furthermore PTZ cameras and CKA4820 remote keyboards can be connected.

Recording speed	Up to 200 ips PAL Up to 240 ips NTSC
Video inputs	16 x PAL / NTSC (auto-detect), BNC, 75 Ohm, loop-thru
Audio inputs	4
Alarm inputs/outputs	16 x / 16 x NO or NC contacts
Interfaces	3 x USB, 1 x SCSI, 1 x RS485, 1 x RS232, 1 x Ethernet
Hard disk capacity	250 GB (expandable)
Backup recording media	USB (Hard Disk, CD-R, Flash), SCSI (RAID), internal DVD writer
Display format	1 (full screen), 2 x 2 (quad) 3 x 3, 4 x 4 (multi screen), PIP
Monitor output	1 x Composite, 1 x S-VHS, 1 x VGA, 4 x SPOT
Dimensions (W x H x D)	430 x 88 x 405 mm (16.9" x 3.5" x 15.9") mm
Weight	10.20 kg
Power consumption	85 W (120 W when 3 hard disk drives are installed)
Power requirements	100 – 230 V AC, 2 A, 50/60 Hz

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	SISTORE MX3208 250/200 SISTORE MX3216 500/200 SISTORE MX3232 1000/200	SISTORE MX3204 *250/150 DVD SISTORE MX3208 250/200 DVD SISTORE MX3216 500/200 DVD SISTORE MX3232 1000/200 DVD
Display		
Video inputs (analogue)	8 / 16 / 32	4 / 8 / 16 / 32
Video inputs (digital IP / Ethernet)	32	32
Monitor outputs	5 (4 x BNC, 1 x VGA)	*3 (2 x BNC, 1 x VGA), 5 (4 x BNC, 1 x VGA)
Audio inputs / outputs	1	1
Video recording resolution (H x V)	704 x 288 (high) 384 x 288 (standard) max. 2048 x 1536 (IP megapixel)	704 x 288 (high) 384 x 288 (standard) max. 2048 x 1536 (IP megapixel)
Live display formats	1 (full screen), 2 x 2 (quad), 1 + 5, 3 x 3, 2 x 8, 4 x 9, 4 x 4, 6 x 6 - 4	1 (full screen), 2 x 2 (quad), 1 + 5, 3 x 3, 2 x 8, 4 x 9, 4 x 4, 6 x 6 - 4
Covert camera mode	■	■
Recording		
Maximum recording speed – no local playback	100 ips – analogue cameras 100 ips – IP cameras	100 ips – analogue cameras 100 ips – IP cameras
Maximum recording speed – during local playback	100 ips – analogue cameras 100 ips – IP cameras	100 ips – analogue cameras 100 ips – IP cameras
Maximum recording speed – playback via RemoteView software	100 ips – analogue cameras 100 ips – IP cameras	100 ips – analogue cameras 100 ips – IP cameras
Recording schedules	user-defined	user-defined
Alarms		
Alarm inputs	32	*16 / 32
Digital inputs	8	*4 / 8
Alarm outputs	16	*8 / 16
Video loss detection	■	■
Activity detection	> 25,000 zones	> 25,000 zones
Internal buzzer	■	■
Alarm log	■	■
Sabotage detection	■	■
Controls		
SmartSearch	■	■
PTZ / dome control	■	■
Fast forward / rewind controls	x 0.1 to x 50 speed	x 0.1 to x 50 speed
Comprehensive user management	■	■
Connectivity		
Ethernet LAN/WAN connector	■	■
External modem connector (ISDN)	via USB	via USB
RemoteView software (license-free)	■	■
VSS-SDK / IVM / MM8000	■	■
SiPass access control interface	■	■
Export / Backup		
Image export	JPG, AVI, K26	JPG, AVI, K26
Image backup / archive	USB to CD / DVD burner / SCSI	Internal DVD burner / SCSI
Max. hard disk capacity (int.)	2 TB (dependent on model)	1.5 TB (dependent on model)

Type		Order No.
SISTORE MX DVD..	**Hybrid Video Recording System**	**SISTORE MX DVD..**

SISTORE MX is a flexible, hybrid surveillance system. It allows recording of analog as well as digital cameras. The device has an integrated CD/DVD burner. The remote access software RemoteView allows simultaneous display of up to 32 live images from different SISTORE MX devices. The SmartSearch function enables search within recorded material via different parameters. A sabotage recognition notifies the SISTORE MX in case of tampering with the connected cameras. The standardised software interface allows the connection to various other systems, e.g. the control via Video Software IVM or connection to the access control system SiPass.

Compression	MJPEG
Resolution (H x V)	High: 704 x 288 Standard: 352 x 288 IP megapixel: 1280 x 1024
Backup recording media	Via USB, Network, SCSI, CD, DVD
Display resolution	1024 x 768, 1280 x 1024
Watchdog function	Hardware-/Software Watchdog
Interfaces	1 x SCSI, 1 x RS485, 1 x LAN, 4 x USB, 1 x Mic
Zoom	Yes
Dimensions (W x H x D)	430 x 87 x 370 mm
Power requirements	100 – 240 V, 50/60 Hz
Power consumption	120 W
Weight	11.00 kg

MX3204 250/150 DVD	**SISTORE MX DVD 3204, 250 GB, 150 ips**	**S24245-F5085-A1**

As SISTORE MX DVD.. for technical details, but with the following differences:

Recording speed	150 ips (50 analogue and 100 digital)
Digital inputs/outputs	4 / 0
Video inputs	Analog: 4 x FBAS (composite), 1 VSS / 75 Ohm Digital: 32 IP-camera inputs via network interface
Camera inputs	32 digital (IP cameras connected via network), 4 analogue (additional activation of 3 x 4 analogue inputs possible)
Monitor output	1 x VGA, 2 x BNC
Alarm inputs/outputs	16 / 8
Hard disk capacity	250 GB (expandable)

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Type			Order No.
MX3208 250/200 DVD	**SISTORE MX DVD 3208, 250 GB, 200 ips**		**S24245-F5085-A3**
	As SISTORE MX DVD.. for technical details, but with the following differences:		
	Recording speed	200 ips (100 ips analogue and 100 ips digital)	
	Digital inputs/outputs	8 / 0	
	Video inputs	Analog: 8 x FBAS (composite), 1 VSS / 75 Ohm Digital: 32 IP-camera inputs via network interface	
	Camera inputs	32 digital (IP cameras connected via network), 8 analogue (additional activation of 3 x 8 analogue inputs possible)	
	Monitor output	1 x VGA, 4 x BNC	
	Alarm inputs/outputs	32 / 16	
	Hard disk capacity	250 GB (expandable)	
MX3216 500/200 DVD	**SISTORE MX DVD 3216, 500 GB, 200 ips**		**S24245-F5085-A5**
	As SISTORE MX DVD.. for technical details, but with the following differences:		
	Recording speed	200 ips (100 ips analogue and 100 ips digital)	
	Digital inputs/outputs	8 / 0	
	Video inputs	Analog: 16 x FBAS (composite), 1 VSS / 75 Ohm Digital: 32 IP-camera inputs via network interface	
	Camera inputs	32 digital (IP cameras connected via network), 16 analogue (additional activation of 2 x 8 analogue inputs possible)	
	Monitor output	1 x VGA, 4 x BNC	
	Alarm inputs/outputs	32 / 16	
	Hard disk capacity	500 GB (expandable)	
MX3232 1000/200 DVD	**SISTORE MX DVD 3232, 1000 GB, 200 ips**		**S24245-F5085-A7**
	As SISTORE MX DVD.. for technical details, but with the following differences:		
	Recording speed	200 ips (100 ips analogue and 100 ips digital)	
	Digital inputs/outputs	8 / 0	
	Video inputs	Analog: 32 x FBAS (composite), 1 VSS / 75 Ohm Digital: 32 IP-camera inputs via network interface	
	Camera inputs	32 digital (IP cameras connected via network), 32 analog	
	Monitor output	1 x VGA, 4 x BNC	
	Alarm inputs/outputs	32 / 16	
	Hard disk capacity	1000 GB (expandable)	

Recording systems SISTORE MX...

SISTORE MX viewer
Display up to 64 images, clear system status indications, includes full PTZ control.

... for 4, 8, 16, 24 and 32 cameras and 32 IP cameras.

Type		Order No.
SISTORE MX..	**Hybrid Video Recording System**	**SISTORE MX..**

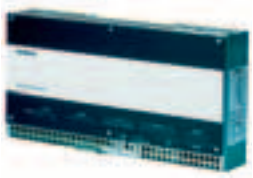
SISTORE MX is a flexible, hybrid surveillance system. It allows recording of analog as well as digital cameras.The remote access software RemoteView allows simultaneous display of up to 32 live images from different SISTORE MX devices. The SmartSearch function enables search within recorded material via different parameters. A sabotage recognition notifies the SISTORE MX in case of tampering with the connected cameras. The standardised software interface allows the connection to various other systems, e.g. the control via Video Software IVM or connection to the access control system SiPass.

Compression	MJPEG
Resolution (H x V)	High: 704 x 288 Standard: 352 x 288 IP megapixel: 1280 x 1024
Watchdog function	Hardware-/Software Watchdog
Zoom	Yes
Backup recording media	Via USB (CD, DVD, HDD), Network, SCSI
Display resolution	1024 x 768, 1280 x 1024
Interfaces	1 x SCSI, 1 x RS485, 1 x LAN, 4 x USB, 1 x Mic
Dimensions (W x H x D)	430 x 87 x 370 mm
Power requirements	100 – 240 V, 50/60 Hz
Power consumption	120 W

MX3208 250/200	**Hybrid Video Recording System**	**S24245-F5085-A2**

As SISTORE MX.. for technical details, but with the following differences:

Recording speed	200 ips (100 ips analogue and 100 ips digital)
Video inputs	Analog: 8 x FBAS (composite), 1 VSS / 75 Ohm Digital: 32 IP-camera inputs via network interface
Alarm inputs/outputs	32 / 16
Camera inputs	32 digital (IP cameras connected via network), 8 analogue (additional activation of 3 x 8 analogue inputs possible)
Digital inputs/outputs	8 / 0
Hard disk capacity	250 GB (expandable)
Monitor output	1 x VGA, 4 x BNC
Weight	11.00 kg

Type		Order No.
MX3216 500/200	**Hybrid Video Recording System** As SISTORE MX.. for technical details, but with the following differences: Recording speed: 200 ips (100 ips analogue and 100 ips digital) Video inputs: Analog: 16 x FBAS (composite), 1 VSS / 75 Ohm Digital: 32 IP-camera inputs via network interface Alarm inputs/outputs: 32 / 16 Video inputs: 32 digital (IP cameras connected via network), 16 analogue (additional activation of 2 x 8 analogue inputs possible) Digital inputs/outputs: 8 / 0 Hard disk capacity: 500 GB (expandable) Monitor output: 1 x VGA, 4 x BNC Weight: 11.00 kg	**S24245-F5085-A4**
MX3232 1000/200	**Hybrid Video Recording System** As SISTORE MX.. for technical details, but with the following differences: Recording speed: 200 ips (100 ips analogue and 100 ips digital) Video inputs: Analog: 32 x FBAS (composite), 1 VSS / 75 Ohm Digital: 32 IP-camera inputs via network interface Alarm inputs/outputs: 32 / 16 Camera inputs: 32 digital (IP cameras connected via network), 32 analog Digital inputs/outputs: 8 / 0 Hard disk capacity: 1000 GB (expandable) Monitor output: 1 x VGA, 4 x BNC Weight: 11.00 kg	**S24245-F5085-A6**
SISTORE MX NVR16 	**Network Video Recorder, 16 IP Cameras, 80 GB, LAN** SISTORE MX NVR16 is a flexible digital surveillance and video recording system that allows the live images supplied by IP cameras to be recorded. It permits remote surveillance via LAN or ISDN. Recording speed: 100 images per second Hard disk capacity: 80 GB Interfaces: 4 x USB 2.0 high speed/high current, 2 x Ethernet port (RJ45), 1 x LAN Operating temperature range: +5 to +40 °C Power consumption: max. 4 A (at 24 V) Power requirements: 24 V DC (20.4 to 28.8 V) Dimensions (W x H x D): 262 x 133 x 47 mm Weight: max. 2.0 kg	**S24245-F5086-A3**

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Accessories Recording Systems

Type		Order No.
MX 4 I/P	**Release 4 Video Inputs SISTORE MX 4** Release 4 Video Inputs SISTORE MX	**S24245-P5097-A1**
MX 8 I/P	**Release 8 Video Inputs SISTORE MX 8** Release 8 Video Inputs SISTORE MX	**S24245-P5097-A4**
MX O/P	**Release Video Outputs SISTORE MX**	**S24245-P5097-A2**
MX SCSI	**Release SCSI-Interface SISTORE MX**	**S24245-P5097-A3**
SISTORE AXHDE 250	**SISTORE AX Hard Disk Extension Kit 250 GB** 250 GB HD for SISTORE AX Hard disk capacity 250 GB Weight 1.5 kg	**2GF4816-8BA**
SISTORE MXHDE 250	**SISTORE MX Hard Disk Extension Kit 250 GB** 250 GB HD for the SISTORE MX Hard disk capacity 250 GB Weight 0.8 kg	**2GF4811-8CD**
SISTORE MXHDE 500	**SISTORE MX Hard Disk Extension Kit 500 GB** 500 GB HD for the SISTORE MX Hard disk capacity 500 GB Weight 0.8 kg	**S24245-B5093-A1**
SISTORE USB-ISDN-Modul	**SISTORE MX ISDN Module** For use with SISTORE MX and in RemoteView for transmission over two ISDN B channels. Compatible with MX Weight 0.8 kg	**2GF4811-8FC**
SISTORE MX Mouse	**SISTORE MX Mouse**	**A5Q00009353**
SISTORE MX USB Keyboard	**SISTORE MX USB Keyboard**	**A5Q00009346**

Accessories Recording Systems

Type		Order No.
SISTORE 19" Installation Kit	**SISTORE MX 19" Rack-Mount-Kit** 19" Rack-Mount-Kit for SISTORE MX/CX8 Weight 4.0 kg	**C24245-A12-D2**
SISTORE MX Multichannel	**SISTORE MX Multichannel-Box (GAA/ATM)** MX-Multichannel-Box (GAA/ATM connector) Weight 1.2 kg	**S24245-F5092-A1**
SISTORE MX Software Update	**SISTORE MX Software Update on Memorystick**	**S24245-P5097-A5**
SISTORE RAID8 2000	**SISTORE RAID8 2000** Hard Disk Recorder with RAID system for storage of video data, as an addition to SISTORE AX, MX and CX. 8, 12 or 16 hard disks with 250 GB or 500 GB each, with S-ATA-II interface. Power consumption 350 W Power requirements 115 V / approx. 6.0 A or 240 V / approx. 3.0 A, 47 – 63 Hz Dimensions (W x H x D) Without handle: 88 x 446 x 490 mm With handle: 88 x 482 x 505 mm Compatible with SISTORE AX, MX and CX	**S24245-B5108-A1**
SISTORE RAID8 3000	**SISTORE RAID8 3000** Hard Disk Recorder with RAID system for storage of video data, as an addition to SISTORE AX, MX and CX. 8, 12 or 16 hard disks with 250 GB or 500 GB each, with S-ATA-II interface. Power consumption 350 W Power requirements 115 V / approx. 6.0 A or 240 V / approx. 3.0 A, 47 – 63 Hz Dimensions (W x H x D) Without handle: 88 x 446 x 490 mm With handle: 88 x 482 x 505 mm Compatible with SISTORE AX, MX and CX	**S24245-B5108-A2**
USBREL 8	**SISTORE MX NVR USB Output Module** USB output module for SISTORE MX NVR - 8 channels with relay function.	**2GF4811-8CG**
USBOPTO8	**SISTORE MX NVR USB Input Module** USB input module for SISTORE MX NVR - 8 channels with optocoupler function.	**2GF4811-8CH**
USBREL16	**SISTORE MX NVR USB Input/Output Module for SISTORE MX NVR** USB input/output module for SISTORE MX NVR - 16 channels with opto-coupler function, 16 channels with relay function	**2GF4811-8CJ**

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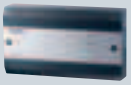
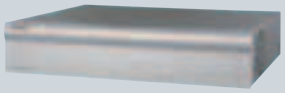
SISTORE CX...

...intelligent digital video codec
with virtual matrix facility.

	CX1 000/25	CX4 000/100	CX4 250/100 CX4 500/100 CX4 1000/100	CX8 000/100	CX8 500/200 CX8 1000/200
					
Display					
Video inputs	1 (with loop through)	4 (with loop through)		8 (with loop through)	
Monitor outputs	1	2	2	4	4
Video inputs / outputs	1 / 0 and 0 / 1	4 and 0 / 2 and 0 / 2 and 1 1 and 1 / 0 and 2		8 and 0 / 4 and 0 / 4 and 2 2 and 2 / 0 and 4	
Streaming	25 ips encoding (CIF, 2CIF, 4CIF) 25 ips decoding (CIF, 2CIF, 4CIF)	100 ips encoding (CIF, 2CIF) 50 ips encoding (4CIF) 50 ips encoding & 25 ips decoding (2CIF) 25 ips encoding & 25 ips decoding (4CIF) 50 ips decoding (2CIF, 4CIF)		200 ips encoding (CIF, 2CIF) 100 ips encoding (4CIF) 100 ips encoding & 50 ips decoding (2CIF) 50 ips encoding & 50 ips decoding (4CIF) 100 ips decoding (2CIF, 4CIF)	
Display resolution (H x V)	4CIF (704 x 576) = ~DVD quality 2CIF (704 x 288) = ~SVHS quality CIF (352 x 288) = ~VHS quality				
Client live display formats	1 (full screen), 2 x 2 (quad), 4 x 4, special overlay mode				
Recording					
Hard disk size	internal CF card (optional)		250 / 500 / 1000 GB		500 / 1000 GB
Internal RAID 1			500 / 1000 GB		■
Alarms					
Digital inputs	2	4	4	8	8
Digital outputs	2	4	4	8	8
Video loss detection	■	■	■	■	■
Activity detection	100,000 zones	100,000 zones	100,000 zones	100,000 zones	100,000 zones
Alarm log	■	■	■	■	■
Sabotage detection	■	■	■	■	■
EDS (Enhanced Detection Solution)	via licence	via licence	via licence	via licence	via licence
Controls					
Easy-search via perspective mask	■	■	■	■	■
PTZ / dome control	■	■	■	■	■
Fast forward / rewind controls	■	■	■	■	■
Password protection	via user profile				
Connectivity					
Ethernet connector	■	■	■	■	■
Client software	■	■	■	■	■
IVM video software interface	■	■	■	■	■
Video software development kit (VSS-SDK)	standard interface for integration with third party management systems				
Export / Backup					
Image export	MPEG4 over network				
Image backup / archive	via client PC – USB to CD/DVD burner				
Storage expansion possibility				via SCSI	

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Type		Order No.
SISTORE CX..	**Intelligent Digital Video Codec**	**SISTORE CX..**

SISTORE CX is an intelligent digital video CODEC capable of performing multiple tasks simultaneously over a network. Utilising MPEG-4 SP/ASP, SISTORE CX offers incredible performance in both transmission speed, image quality and detailed video analysis. It provides three operating modes for real-time video: transmitter (encoding) mode, receiver (decoding) mode or the combination transceiver mode, plus recording.

Interfaces	1 x RJ45 - Ethernet (10baseT, 100baseT) 1 x RS485 1 x RS232
Video (in/out)	CX1: 1 input / 1 output CX4: 4 inputs / 0 output 2 inputs / 1 output 1 input / 1 output 0 input / 2 outputs CX8: 8 inputs / 0 output 4 inputs / 2 output 2 input / 2 output 0 input / 4 outputs
Video inputs	BNC with loop-through (75 Ohm) (see inputs/outputs for configurations)
Video outputs	BNC (75 Ohm) (see inputs/outputs for configurations)

CX1 0/25	**Intelligent Digital Video Codec, 1 Camera, 25 ips**	**S24245-F5104-A1**

As SISTORE CX.. for technical details, but with the following differences:

SISTORE CX is an intelligent digital video CODEC capable of performing multiple tasks simultaneously over a network. Utilising MPEG4 SP/ASP, SISTORE CX offers incredible performance in both transmission speed, image quality and detailed video analysis. It provides three operating modes for real-time video: transmitter (encoding) mode, receiver (decoding) mode or the combination transceiver mode, plus recording.

Compression	MPEG-4 SP/ASP
Hard disk capacity	None (1 slot available for compact flash card)
Digital inputs	2
Digital outputs	2
Interfaces	1 x RJ45 - Ethernet (10baseT, 100baseT) 1 x RS485
Recording speed	25 ips encoding (CIF, 2CIF, 4CIF) 25 ips decoding (CIF, 2CIF, 4CIF)
Power consumption	15 W
Power requirements	12 – 24 V DC or 24 V AC, max. 1.25 A
Weight	0.95 kg

Type		Order No.
CX4 0/100	**Intelligent Digital Video Codec, 4 Cameras, 100 ips**	**S24245-F5056-A2**

As SISTORE CX.. for technical details, but with the following differences:

SISTORE CX is an intelligent digital video CODEC capable of performing multiple tasks simultaneously over a network. Utilising MPEG-4 SP/ASP, SISTORE CX offers incredible performance in both transmission speed, image quality and detailed video analysis. It provides three operating modes for real-time video: transmitter (encoding) mode, receiver (decoding) mode or the combination transceiver mode, plus recording.

Compression	MPEG-4 SP/ASP
Hard disk capacity	None (2 bays available for hard disks)
Digital inputs	4
Digital outputs	4
Recording speed	100 ips encoding (CIF, 2CIF) 50 ips encoding (4CIF) 50 ips encoding and 25 ips decoding simultaneously (2CIF) 25 ips encoding and 25 ips decoding simultaneously (4CIF) 50 ips decoding (2CIF, 4CIF)
Power consumption	100 W
Power requirements	12 V DC, 3 A (100 – 240 V AC adaptor supplied)
Weight	4.2 kg

CX4 250/100	**Intelligent Digital Video Codec, 250 GB, 4 Cameras, 100 ips**	**S24245-F5056-A3**

As SISTORE CX.. for technical details, but with the following differences:

SISTORE CX is an intelligent digital video CODEC capable of performing multiple tasks simultaneously over a network. Utilising MPEG-4 SP/ASP, SISTORE CX offers incredible performance in both transmission speed, image quality and detailed video analysis. It provides three operating modes for real-time video: transmitter (encoding) mode, receiver (decoding) mode or the combination transceiver mode, plus recording.

Compression	MPEG-4 SP/ASP
Hard disk capacity	1 x 250 GB
Digital inputs	4
Digital outputs	4
Recording speed	100 ips encoding (CIF, 2CIF) 50 ips encoding (4CIF) 50 ips encoding and 25 ips decoding simultaneously (2CIF) 25 ips encoding and 25 ips decoding simultaneously (4CIF) 50 ips decoding (2CIF, 4CIF)
Power consumption	100 W
Power requirements	12 V DC, 4 A (100 – 240 V AC adaptor supplied)
Weight	5.0 kg

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Type		Order No.
CX4 500/100	**Intelligent Digital Video Codec, 500 GB, 4 Cameras, 100 ips**	**S24245-F5056-A4**

As SISTORE CX.. for technical details, but with the following differences:

SISTORE CX is an intelligent digital video CODEC capable of performing multiple tasks simultaneously over a network. Utilising MPEG-4 SP/ASP, SISTORE CX offers incredible performance in both transmission speed, image quality and detailed video analysis. It provides three operating modes for real-time video: transmitter (encoding) mode, receiver (decoding) mode or the combination transceiver mode, plus recording.

Compression	MPEG-4 SP/ASP
Hard disk capacity	2 x 250 GB
Digital inputs	4
Digital outputs	4
Recording speed	100 ips encoding (CIF, 2CIF) 50 ips encoding (4CIF) 50 ips encoding and 25 ips decoding simultaneously (2CIF) 25 ips encoding and 25 ips decoding simultaneously (4CIF) 50 ips decoding (2CIF, 4CIF)
Power consumption	100 W
Power requirements	12 V DC, 5 A (100 – 240 V AC adaptor supplied)
Weight	5.8 kg

CX4 1000/100	**Intelligent Digital Video Codec, 1000 GB, 4 Cameras, 100 ips**	**S24245-F5056-A6**

As SISTORE CX.. for technical details, but with the following differences:

SISTORE CX is an intelligent digital video CODEC capable of performing multiple tasks simultaneously over a network. Utilising MPEG-4 SP/ASP, SISTORE CX offers incredible performance in both transmission speed, image quality and detailed video analysis. It provides three operating modes for real-time video: transmitter (encoding) mode, receiver (decoding) mode or the combination transceiver mode, plus recording.

Compression	MPEG-4 SP/ASP
Hard disk capacity	2 x 500 GB
Digital inputs	4
Digital outputs	4
Recording speed	100 ips encoding (CIF, 2CIF) 50 ips encoding (4CIF) 50 ips encoding and 25 ips decoding simultaneously (2CIF) 25 ips encoding and 25 ips decoding simultaneously (4CIF) 50 ips decoding (2CIF, 4CIF)
Power consumption	100 W
Power requirements	12 V DC, 5 A (100 – 240 V AC adaptor supplied)
Weight	5.8 kg

Type		Order No.
CX8 0/200	**Intelligent Digital Video Codec, 8 Cameras, 200 ips**	**S24245-F5096-A2**

As SISTORE CX.. for technical details, but with the following differences:

Compression	MPEG-4 SP/ASP
Hard disk capacity	None (2 bays available for hard disks)
Digital inputs	8
Digital outputs	8
Recording speed	200 ips encoding (CIF, 2CIF) 100 ips encoding (4CIF) 100 ips encoding and 25 ips decoding simultaneously (2CIF) 50 ips encoding and 25 ips decoding simultaneously (4CIF) 100 ips decoding (2CIF, 4CIF)
Power consumption	100 W
Power requirements	100 – 230 V AC
Weight	6.5 kg

CX8 500/200	**Intelligent Digital Video Codec, 500 GB, 8 Cameras, 200 ips**	**S24245-F5096-A3**

As SISTORE CX.. for technical details, but with the following differences:

Compression	MPEG-4 SP/ASP
Hard disk capacity	2 x 250 GB
Digital inputs	8
Digital outputs	8
Recording speed	200 ips encoding (CIF, 2CIF) 100 ips encoding (4CIF) 100 ips encoding and 25 ips decoding simultaneously (2CIF) 50 ips encoding and 25 ips decoding simultaneously (4CIF) 100 ips decoding (2CIF, 4CIF)
Power consumption	100 W
Power requirements	100 – 230 V AC
Weight	8.0 kg

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Type		Order No.
CX8 1000/200	**Intelligent Digital Video Codec, 1000 GB, 8 Cameras, 200 ips**	**S24245-F5096-A4**

As SISTORE CX.. for technical details, but with the following differences:

Compression	MPEG-4 SP/ASP
Hard disk capacity	2 x 500 GB
Digital inputs	8
Digital outputs	8
Recording speed	200 ips encoding (CIF, 2CIF) 100 ips encoding (4CIF) 100 ips encoding and 25 ips decoding simultaneously (2CIF) 50 ips encoding and 25 ips decoding simultaneously (4CIF) 100 ips decoding (2CIF, 4CIF)
Power consumption	100 W
Power requirements	100 – 230 V AC
Weight	8.0 kg

What happens if there is a fire in one of the offices?

We offer protection by combining interoperable security, fire safety and building management systems

As emergency lighting is automatically switched on, ventilation will be controlled, with the alarm being transmitted to first responders offering visual verification, all while restricting access to elevators and doors in the alarm area and guiding people away to safety via the voice evacuation system.

www.siemens.com/interoperability

SIEMENS

Monitors dedicated for security applications to display the best quality images

This global portfolio of CCTV monitors is a comprehensive range of quality monitors for professional surveillance applications – ideally suited for use wherever good picture quality and reliability are of prime importance.

The traditional CRT range provides the perfect answer for all standard monitor screen size requirements in general applications where a good quality picture and high levels of performance are wanted at a reasonable price. For more demanding applications, the TFT models offer unbeatable performance and are sure to impress!

- Full range of CRT and TFT models
- Viewing sizes from 9″ to 21″
- Outstanding display of pictures
- Robust, yet stylish design

TFT Monitors Overview

	Colour TFT monitors			
	CMTC1525	CMTC1720	CMTC1715	CMTC1915
TFT size	15″ / 38 cm	17″ / 44 cm	17″ / 44 cm	19″ / 48 cm
Resolution (pixels H x V)	1024 x 768	1280 x 1024	1280 x 1024	1280 x 1024
Contrast	500 : 1	500 : 1	500 : 1	550 : 1
On-screen display menu	■	■	■	■
Video in / out	2	1	2	2
S-VHS Y/C input	■	■	■	■
DVI input	■	■	■	■
Audio in / out	2	1	2	2
Response time	12 ms	12 ms	8 ms	8 ms
Brightness	250 cd/m²	300 cd/m²	420 cd/m²	400 cd/m²
Anti-glare glass screen	■		■	■
Picture-in-Picture	■		■	■
Integral speakers	■	■	■	■
Metal housing	■		■	■
Easy carry handle	■		■	■
TV standard	PAL / NTSC 50 / 60 Hz	PAL / NTSC 50 / 60 Hz	PAL / NTSC 50 / 60 Hz	PAL / NTSC 50 / 60 Hz
Power	100~240 V AC	100~240 V AC	100~240 V AC	100~240 V AC

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CRT Monitors Overview

	Colour CRT monitors			
	CMCC1420	CMCC1525	CMCC1725	CMCC2120
CRT size	14″ / 36 cm	15″ / 38 cm	17″ / 44 cm	21″ / 55 cm
Resolution with coax	350 TVL	700 TVL	700 TVL	400 TVL
Resolution with Y/C	450 TVL	800 TVL	800 TVL	450 TVL
Front panel controls	■		■	■
On-screen display menu		■		
Video in / out	1	2	2	2
S-VHS Y/C in / out	1	1	1	1
Audio in / out	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
Power	100~240 V AC	100~240 V AC	100~240 V AC	100~240 V AC

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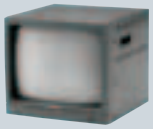
	Monochrome CRT monitors			
	CMCB0920	CMCB1220	CMCB1420	CMCB1720
				
CRT size	9″ / 23 cm	12″ / 32 cm	14″ / 36 cm	17″ / 44 cm
Resolution with coax	900 TVL	1000 TVL	1000 TVL	1000 TVL
Front panel controls	■	■	■	■
Video in / out	1	1	1	2
Audio in / out				2
Under / over scan switch				
Metal case	■	■	■	■
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
Power	100~240 V AC	100~240 V AC	100~240 V AC	100~240 V AC

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Monochrome Monitors

Type		Order No.
CMCB0920	**Mono Monitor 9" 900 TVL 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
Power requirements	100 – 240 V AC
Weight	4.6 kg

CMCB1220 — **Mono Monitor 12" 1000 TVL 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
Power requirements	100 – 240 V AC
Weight	7.6 kg

CMCB1420 — **Mono Monitor 14" 1000 TVL 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
Power requirements	100 – 240 V AC
Weight	10.5 kg

CMCB1720 — **Mono Monitor 17" 1000 TVL 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
Dimensions (W x H x D)	405 x 371 x 406 mm
Power requirements	100 – 240 V AC
Weight	14.4 kg

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Type		Order No.

CMCC1420

Colour Monitor 14" 350 TVL PAL/NTSC — **2GF3132-8AA**

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.

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

CMCC1525

Colour Monitor 15" 700 TVL OSD PAL/NTSC — **2GF3133-8AA**

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.

Resolution	> 700 TV lines, 800 TV lines with Y/C
Audio inputs	2 x Audio (RCA), looped through
Video (in/out)	2 x Video IN (BNC), looped through, 1 x S-VHS IN (Y/C), looped through
OSD	Yes
Dimensions (W x H x D)	356 x 333 x 381 mm
Power requirements	100 – 240 V AC
Weight	15.7 kg

CMCC1725

Colour Monitor 17" 700 TVL PAL/NTSC — **2GF3134-8AA**

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.

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

Colour Monitors

Type		Order No.
CMCC2120	**Colour Monitor 21" 400 TVL PAL/NTSC**	**2GF3135-8AA**

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.

Resolution	> 400 TV lines, 450 TV lines with Y/C
Audio inputs	2 x Audio (RCA), looped through
Video (in/out)	2 x Video IN (BNC), looped through, 1 x S-VHS IN (Y/C), looped through
Dimensions (W x H x D)	480 x 466 x 439 mm
Power requirements	100 – 240 V AC
Weight	25.5 kg

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For every viewing need...
SIEMENS
...a complete range of TFT monitors.

Type		Order No.
CMTC1525	**TFT Monitor 38 cm (15”) Picture-in-Picture, Metal Housing**	**S54573-C1-A1**

The high-resolution XGA TFT monitor has been designed especially for CCTV applications. The monitor features 2 BNC video inputs with loop-through outputs, one S-VHS input and one DVI input which allows the monitor to be used for PC-based applications. The picture-in-picture function (PIP) enables the simultaneous display of 2 images on the same monitor. The monitor also features a text function; this function allows any text to be configured and displayed on the screen. Through its sturdy metal housing the monitor is also suited for industrial applications where high resolution, image brightness and contrast are required and the monitor screen can be viewed easily from all sides. To protect the TFT panel from being damaged, the housing is made of metal and the front part is protected by a glass pane.

Video inputs	2 x video in (BNC), 1 x S-video, 1 x DVI-I
Dimensions (W x H x D)	349 x 272 x 62.5 mm
Audio	2 built-in speakers, L+R
Audio inputs	2 x audio in (RCA)
OSD	Colour, hue, brightness, contrast, sharpness, volume, language (8), scan (O/U), picture-in-picture function (PIP), text editing, etc.
Data sheet	A6V10093640
Weight	6.9 kg
Power requirements	100 - 240 V, 50/60 Hz, (55 W) 12 V DC / 5 A (integrated power supply unit)

CMTC1715	**TFT Monitor 44 cm (17”) Picture-in-Picture, Metal Housing**	**2GF3125-8AA**

This XGA high resolution TFT monitor is specifically designed for CCTV security applications. It has two dedicated BNC video inputs with looping outputs, an S-VHS input and a DVI input allowing connection to PC-based digital recorders. The picture-in-picture feature allows two inputs to be displayed simultaneously (Video/Video; Video/DVI; Video/S-Video; S-Video/DVI). The monitor is further equipped with two audio inputs and outputs and includes integral loudspeakers. With a sturdy metal housing, the monitor is also suited for demanding industrial applications where bright rooms require very high screen brightness, high contrast and high resolution, plus a wide viewing angle for simple viewing at all angles. The screen has an anti-glare coating and is protected by a glass pane.

Video inputs	2 x video in (BNC), 1 x S-video, 1 x DVI-I
Dimensions (W x H x D)	374 x 318 x 62.5 mm
Audio	2 built-in speakers, L+R
Audio inputs	2 x audio in (RCA)
OSD	Colour, hue, brightness, contrast, sharpness, volume, language, scan (O/U), picture-in-picture function (PIP)
Data sheet	A24205-A336-B502
Weight	8.5 kg
Power requirements	100 – 240 V, 50/60 Hz

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Type		Order No.
CMTC1720	**TFT Monitor 44 cm (17”) Plastic Polymer Housing**	**2GF3126-8AA**

The CMTC1720 is specifically designed for standard security applications, still requiring a TFT monitor to produce a great picture, but not requiring the other industrial-like standard qualities of the other TFT monitors. It offers a stylish design constructed with highly durable plastic polymer, SXGA display resolution, a wide viewing angle and integral speakers.

Video inputs	1 x video in (BNC), 1 x S-video, 1 x DVI-I
Dimensions (W x H x D)	372 x 325 x 54 mm
Audio	2 built-in speakers, L+R
Audio inputs	1 x audio in (RCA)
OSD	Colour, hue, brightness, contrast, sharpness, volume, language, scan (O/U)
Data sheet	A24205-A336-B331
Weight	3.8 kg
Power requirements	100 – 240 V AC

CMTC1915 — **TFT Monitor 48 cm (19”) Picture-in-Picture, Metal Housing** — **2GF3129-8AA**

This XGA high resolution TFT monitor is specifically designed for CCTV security applications. It has two dedicated BNC video inputs with looping outputs, an S-VHS input and a DVI input allowing connection to PC-based digital recorders. The picture-in-picture feature allows two inputs to be displayed simultaneously (Video/Video; Video/DVI; Video/S-Video; S-Video/DVI). The monitor is further equipped with two audio inputs and outputs and includes integral loudspeakers. With a sturdy metal housing, the monitor is also suited for demanding industrial applications where bright rooms require very high screen brightness, high contrast and high resolution, plus a wide viewing angle for simple viewing at all angles. The screen has an anti-glare coating and is protected by a glass pane.

Video inputs	2 x video in (BNC), 1 x S-video, 1 x DVI-I
Dimensions (W x H x D)	420 x 350 x 65 mm
Audio	2 built-in speakers, L+R
Audio inputs	2 x audio in (RCA)
OSD	Colour, hue, brightness, contrast, sharpness, volume, language, scan (O/U), picture-in-picture function (PIP)
Data sheet	A24205-A336-B328
Weight	9.5 kg
Power requirements	100 – 240 V, 50/60 Hz

Type		Order No.
CMTC1920	**19" CCTV Colour TFT Monitor, Plastic Polymer Housing**	**2GF3122-8AA**

The CMTC1920 is specifically designed for standard security applications, still requiring a TFT monitor to produce a great picture, but not requiring the other industrial-like qualities of the other TFT monitors. It offers a stylish design constructed with highly durable plastic polymer, SXGA display resolution, a wide viewing angle and integral speakers.

Video inputs	1 x Video in (BNC), 1 x S-Video, 1 x DVI-I
Dimensions (W x H x D)	420 x 431.5 x 54.5 mm
Audio	2 speakers
Audio inputs	1 x audio in
OSD	colour, hue, brightness, contrast, sharpness, volume, language, scan (O/U)
Data sheet	A6V10059448
Weight	5.0 kg
Power requirements	100 – 240 V AC, 50/60 Hz

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Type		Order No.
VMT900	**Monitor Hanger for 12~15" CRT Monitors**	**GBQ:A5381740001**

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
Weight	2.9 kg

VMT910	**Monitor Hanger for 20~21" CRT Monitors**	**GBQ:A5381870001**

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

VMT901	**Wall Mount Bracket for VTM900**	**GBQ:A5381900001**

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
Weight	2.449 kg

VMT902	**Hanger Ceiling Bracket for VMT900**	**GBQ:A5382130001**

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
Weight	2.111 kg

Monitor Mounts

Type		Order No.
VMT903	**Monitor Extension Tube for VMT902** Tubular extension with lock-ring for insertion between VMT902 ceiling bracket and VMT900 and VMT910 monitor hangers. Extension length: 500 mm Load rating: 60 kg Weight: 0.662 kg	**GBQ:A5573040001**
VMT911	**Wall Mount Bracket for 17~21" CRT Monitors** 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 Weight: 5.32 kg	**GBQ:A5382000001**
CMTB1515-R	**15" Bracket for 19" Rack Mount** Bracket to install the 15" TFT CMTC1515 monitor in a 19" rack mount Weight: 0.70 kg	**2GF3124-8BA**
CMTB1715-R	**17" Bracket for 19" Rack Mount** Bracket to install the 17" TFT CMTC1715 monitor in a 19" rack mount Weight: 0.70 kg	**2GF3125-8BA**
CMTB1915-R	**19" Bracket for 19" Rack Mount** Bracket to install the 19" TFT CMTC1915 monitor in a 19" rack mount Weight: 0.70 kg	**2GF3129-8BA**

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IVM allows easy operation and complete control of your CCTV system, no matter how large or small

IVM (Interactive Video Management software) allows the user to carry out the entire video system management, from the generation of site plans or system configuration, to display, selection and control of individual video components or external systems. Via system interfaces, it is possible to generate event controlled reports and alarms or to display, evaluate or document process information from specified systems. This benefits the user by allowing positive correlation of images to the following aspects of the report:

- The cause for generation of the report from the logged images and event data.
- The development of dangers in progress due to the display of live images.
- Full image and data documentation of the entire event.

IVM Software

Type		Order No.
COIB0201	**IVM Basic Licence Inputs/Outputs: 16 / 4** Including basic server license for IVM System and client for design systems up to 16 video inputs and 4 video outputs.	**2GF9400-8FM**
COIB0401	**IVM Basic Licence Inputs/Outputs: 32 / 4** Including basic server license for IVM System and client for design systems up to 32 video inputs and 4 video outputs.	**2GF9400-8FN**
COIB0801	**IVM Basic Licence Inputs/Outputs: 64 / 8** Including basic server license for IVM System and client for design systems up to 64 video inputs and 8 video outputs.	**2GF9400-8FA**
COIB1601	**IVM Basic Licence Inputs/Outputs: 128 / 8** Including basic server license for IVM System and client for design systems up to 64 video inputs and 8 video outputs.	**2GF9400-8FL**
COIB3202	**IVM Basic Licence Inputs/Outputs: 255 / 16** 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**
COIB3208	**IVM Basic Licence Inputs/Outputs: 255 / 64** 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 Licence Inputs/Outputs: 255 / 96** Including basic server license for IVM System and client with dongle for design systems up to 255 video inputs and 96 video outputs.	**2GF9400-8FE**
COIB3216	**IVM Basic Licence Inputs/Outputs: 255 / 128** Including basic server license for IVM System and client with dongle for design systems up to 255 video inputs and 128 video outputs.	**2GF9400-8FF**
COIC1001	**IVM Licence for a Client** Universal operation of CCTV system.	**2GF9400-8GC**
COSI024016	**IVM I/O Server License Dig. Inputs/Outputs 24/16** The I/O server is a software additional component of IVM for control of the I/O contacts of the SIMATIC S7.	**2GF9400-8KA**
COSI040032	**IVM I/O Server License Dig. Inputs/Outputs 40/32** The I/O server is a software additional component of IVM for control of the I/O contacts of the SIMATIC S7.	**2GF9400-8KB**
COSI056048	**IVM I/O Server License Dig. Inputs/Outputs 56/48** The I/O server is a software additional component of IVM for control of the I/O contacts of the SIMATIC S7.	**2GF9400-8KC**

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SISTORE MX NVS Network Video Software

Type		Order No.
SISTORE MX NVS..	**SISTORE MX NVS** SISTORE MX NVS offers a wide range of functions, including live image display, recording, playback and remote enquiry. After SISTORE MX NVS has been installed, you can connect network cameras (IP cameras) and video servers from different manufacturers to monitor rooms, buildings, production facilities, sensitive public places and security-relevant outdoor areas of any kind and simultaneously record the camera signals. Mega-pixel recording: SISTORE MX NVS supports mega-pixel cameras. The image quality achieved with these cameras is much higher than that of analogue cameras.	**SISTORE MX NVS..**
SISTORE MX NVS 4	**SISTORE MX NVS 4** As SISTORE MX NVS.. for technical details, but with the following differences: Digital Video Recording Software for 4 IP-Cameras	**S24245-P5099-A1**
SISTORE MX NVS 9	**SISTORE MX NVS 9** As SISTORE MX NVS.. for technical details, but with the following differences: Digital Video Recording Software for 9 IP-Cameras	**S24245-P5099-A2**
SISTORE MX NVS 16	**SISTORE MX NVS 16** As SISTORE MX NVS.. for technical details, but with the following differences: Digital Video Recording Software for 16 IP-Cameras	**S24245-P5099-A3**

SISTORE MX NVS Network Video Software

Type		Order No.
SISTORE MX NVS 32	**SISTORE MX NVS 32** As SISTORE MX NVS.. for technical details, but with the following differences: Digital Video Recording Software for 32 IP-Cameras	**S24245-P5099-A4**
USBREL 8	**SISTORE MX NVR USB Output Module** USB output module for SISTORE MX NVR - 8 channels with relay function.	**2GF4811-8CG**
USBOPTO8	**SISTORE MX NVR USB Input Module** USB input module for SISTORE MX NVR - 8 channels with optocoupler function.	**2GF4811-8CH**
USBREL16	**SISTORE MX NVR USB Input/Output Module for SISTORE MX NVR** USB input/output module for SISTORE MX NVR - 16 channels with optocoupler function, 16 channels with relay function.	**2GF4811-8CJ**
COOS000001	**FS Video Software Suite (VSS)**	**2GF9490-8AC**

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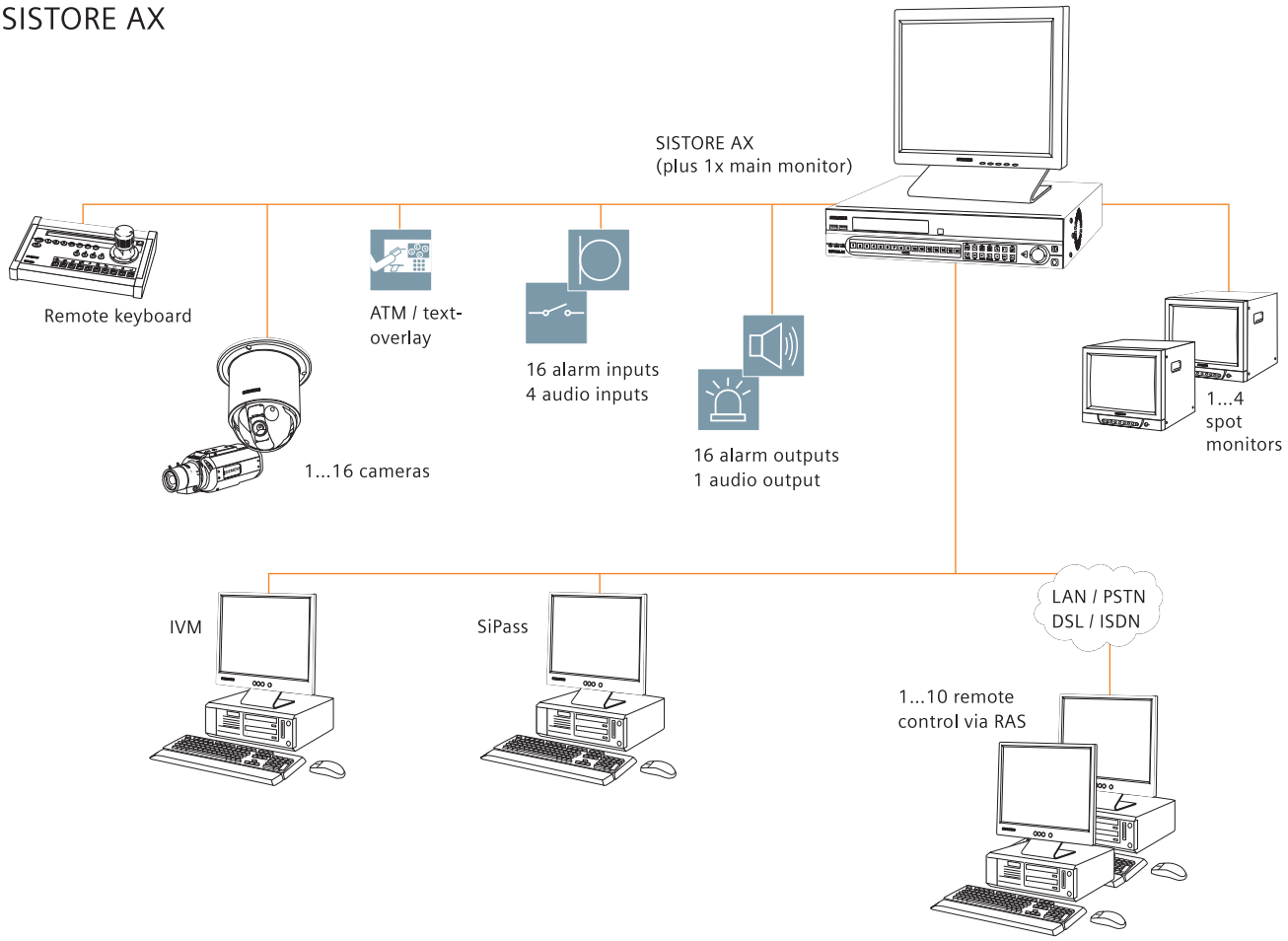
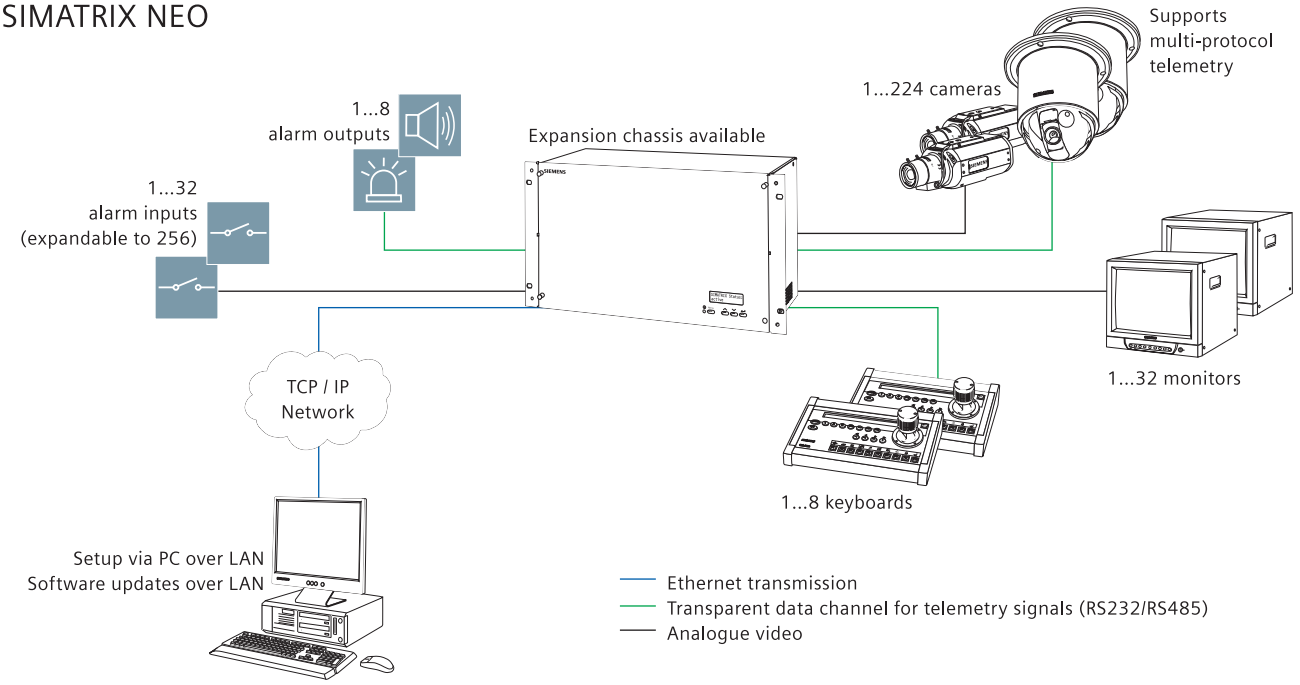
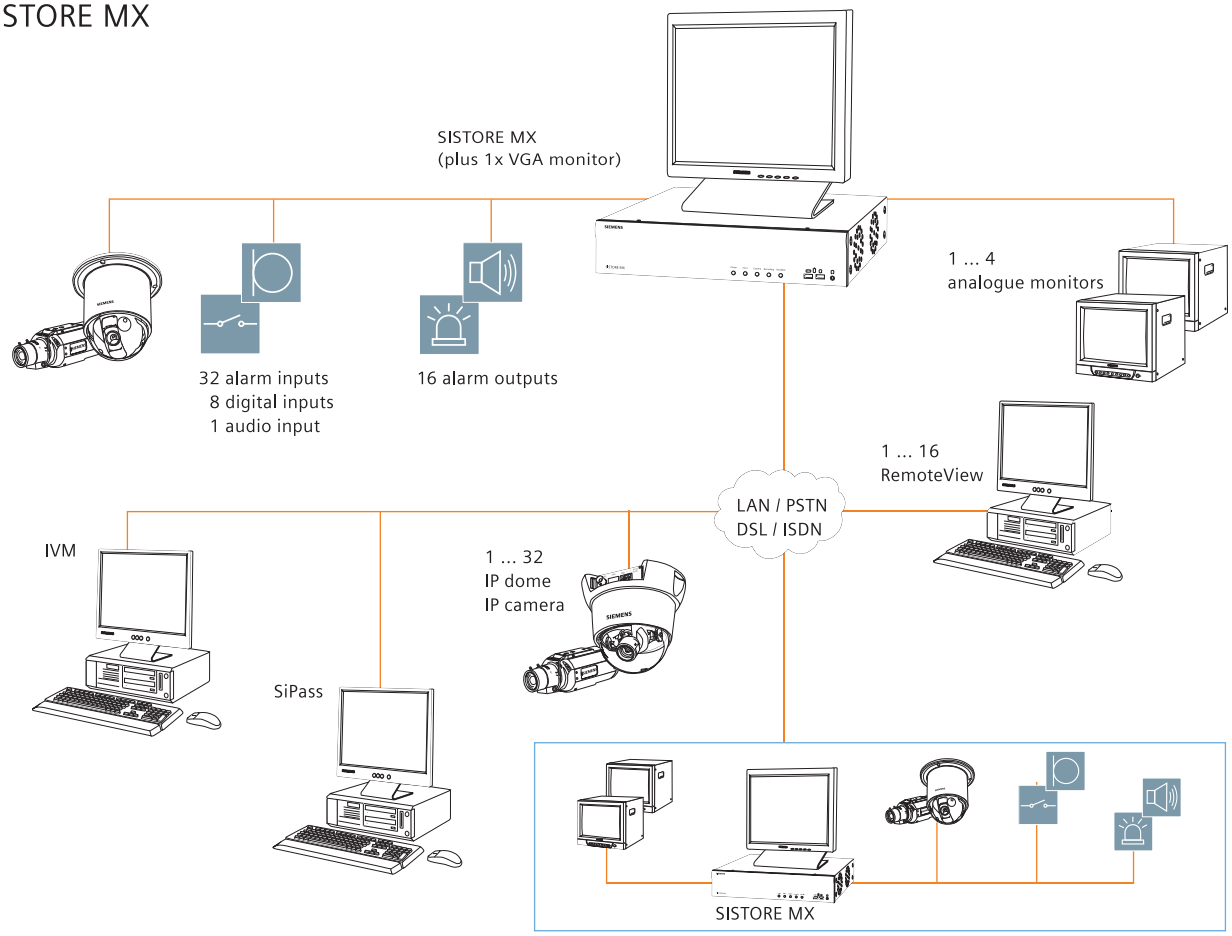
SISTORE AX



SIMATRIX NEO



SISTORE MX



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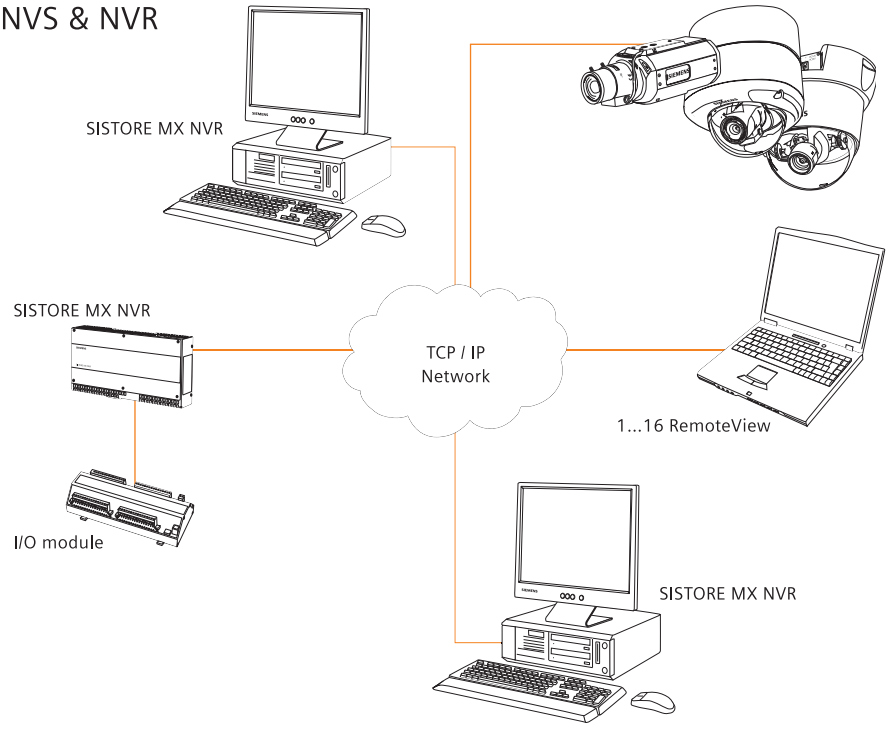

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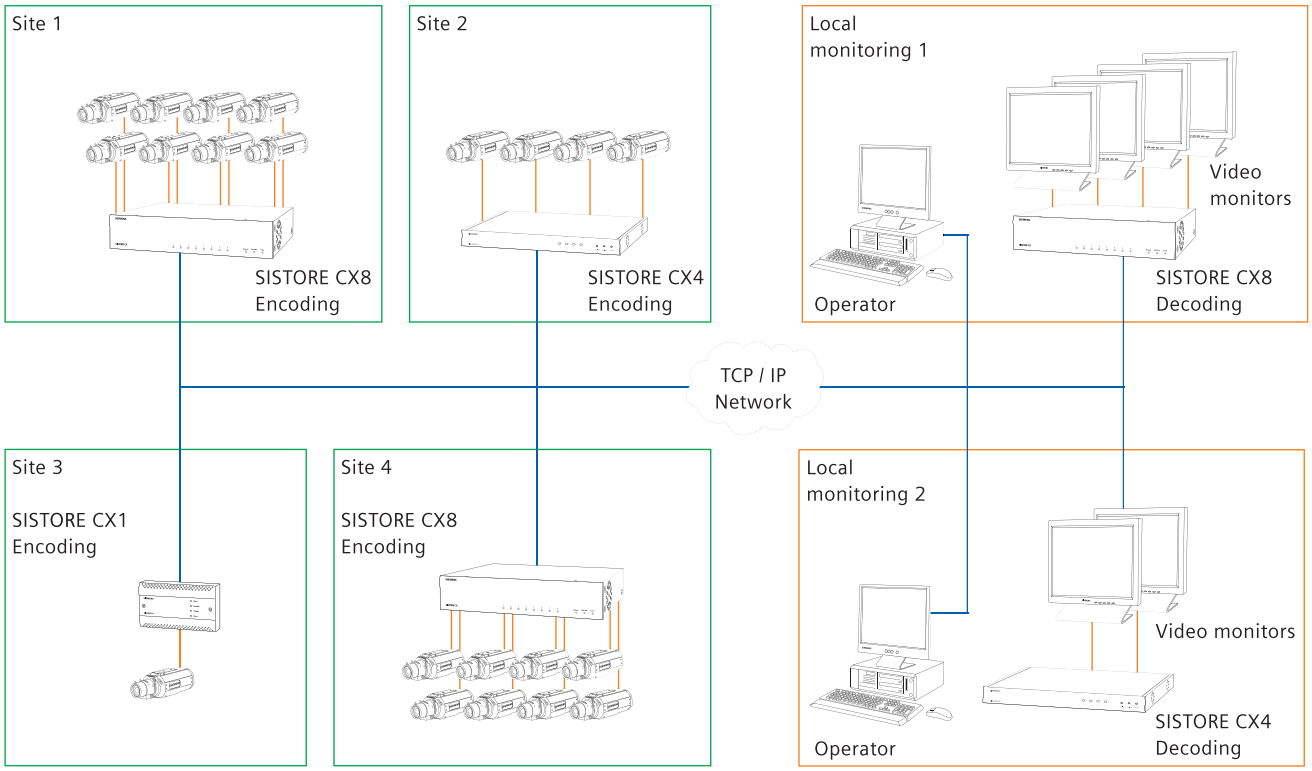
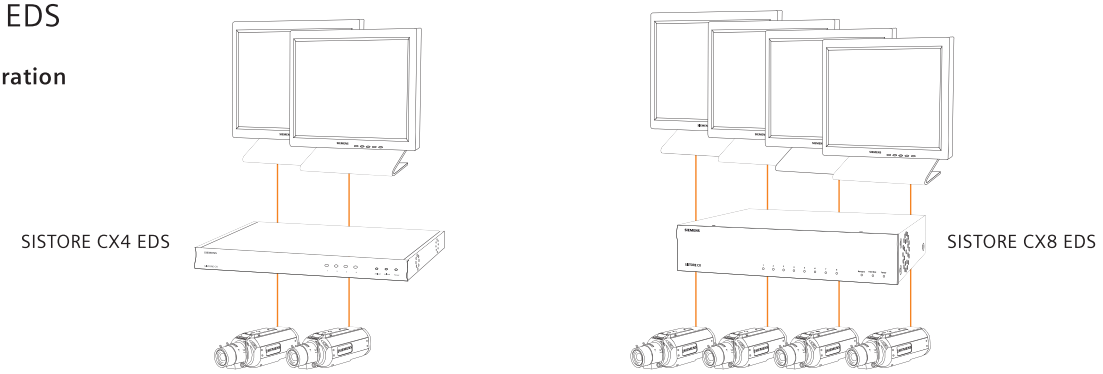
SISTORE CX

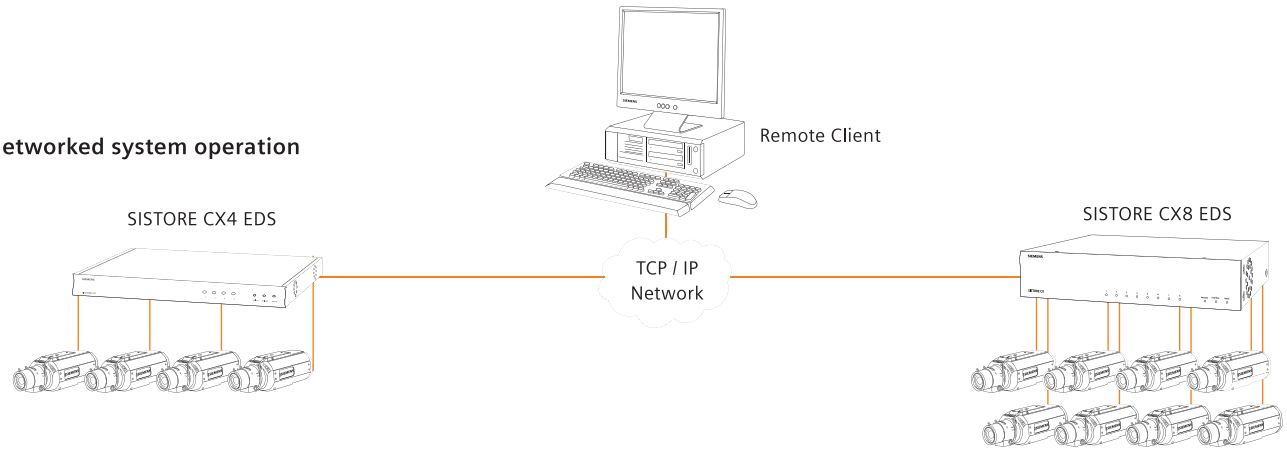


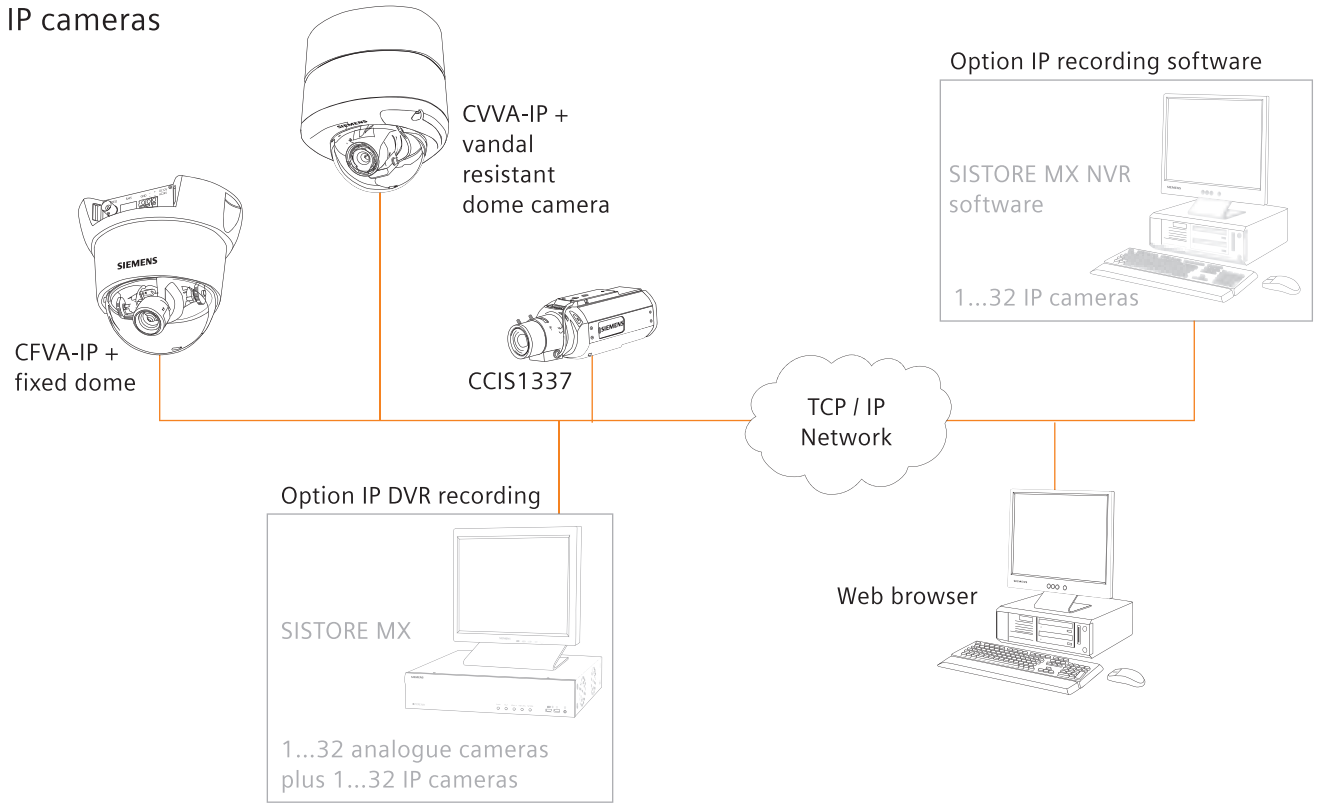
SISTORE CX EDS

Standalone operation



Networked system operation





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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.

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.

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 products of prime importance. The following table shows the definition of the international protection ratings and helps you to select the proper equipment for your 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

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 1 m
8 = Protected from extended periods of immersion under pressure

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 15 cm and 1 m

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

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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 V AC, 115 V AC or 230 V AC.
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.

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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 brigt 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 preset 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.

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 synchronizing 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.

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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 12.5 mm 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 furthermost 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 similair 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 2.6 mm, 4.8 mm, 8 mm, 16 mm, 25 mm and 75 mm 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.

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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.

Infrared Detector
Can be used in conjunction with a CCTV system to switch the relevent 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.

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.

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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.

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 250 m. 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.

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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 3.5 mm to 70 mm 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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Planning Guide – CCTV portfolio overview

Analogue cameras

Monochrome camera

Colour camera

Day-night camera

Auto focus camera

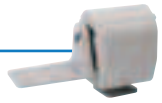
Vandal resistant auto focus fixed dome

Varifocal and monofocal fixed dome

Vandal resistant varifocal fixed dome

Speed dome

Weatherproof housing


Pan-tilt heads

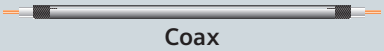
Infrared lighting

Telemetry receiver driver for pan-tilt heads

Transmission methods

Transmitter

Transmitter


Coax

Twisted pair

Fibre optic

LAN / WAN / xDSL

Receiver

Receiver

SISTORE CX
Transceiver encoding

SISTORE CX
Transceiver decoding

Video (direct connection)

Advantages

Coaxial cable
- Low cost
- Simple to cable, simple handling
- Point-to-point connection
- No maintenance required
- No active amplifier required

Twisted pair (two-wire) transmission
- Range up to 1500 m
- Uses existing cable infrastructure
- Small space required due to narrow diameter of cable
- Cost-effective for short distances

Fibre optic transmission
- Range up to 69 km
- Secure against interference and tapping
- Low pallet and fire load (weight)
- No maintenance required
- Multiple transmission of signals possible

PSTN / ISDN dial-up line
- Unlimited range in existing ISDN telecommunication networks
- Cross-border connection possible
- For in-house systems, no costs if the systems present are used

LAN / WAN / Web
- Uses existing network structures and hardware
- No range limit within the network
- Internet integration possible

Disadvantages

Coaxial cable
- Large space required due to wide diameter of cable
- Signal interference from electro-magnetic sources
- Limited range: up to 200 m depending on cable specification
- Lightning protection expensive
- Separate cable required for control

Twisted pair (two-wire) transmission
- Active elements (transmitter and receiver required)
- Maintenance required (temperature-dependent)

Fibre optic transmission
- Higher cost (material and handling)
- Active elements (transmitter and receiver required)
- Significant effort and expense involved with changes in camera location
- Special installation training required

PSTN / ISDN dial-up line
- Cost depends on the availability of telecommunication networks
- Active elements (transmitter and receiver) required
- Slower image transmission speed

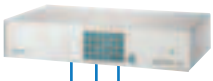
LAN / WAN / Web
- Hardware cost
- Bandwidth restriction for image transmission speed
- Bandwidth restriction for image transmission quality

Outdoor motion detection & tracking

Video output
LAN
Video input

SISTORE CX EDS
Up to 8 surveillance channels

Video switching

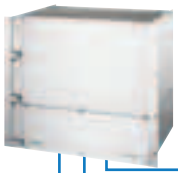


Video input

SIMATRIX 164
16 video inputs
4 video outputs
IVM interface
16 alarm inputs
RS232

Video input

SIMATRIX 648
Expandable up to 64 video inputs
8 video outputs
IVM interface
Max. 64 alarm inputs
RS232



Video input

SIMATRIX SYS
Expandable up to 255 video inputs
64 video outputs
IVM interface
Max. 256 alarm inputs
RS232

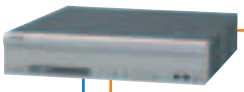
Video input

SIMATRIX NEO
Expandable up to 224 video inputs
32 video outputs
Modular and scalable system
Simultaneous multi-protocol-telemetry
Ethernet connection
IVM interface
Max. 256 alarm inputs
RS232

Digital recording

Video input

SISTORE AX
4/9/16 video inputs, up to 200 ips
Up to 4 audio channels
PTZ control
Export via DVD writer
IVM connection



Video input
IP input

SISTORE MX
Hybrid video recorder
4~32 video inputs
Up to 32 IP camera inputs
Up to 200 ips
2/4 monitor outputs
1 audio channel
PTZ control
Export via DVD writer
IVM connection

LAN

Video input

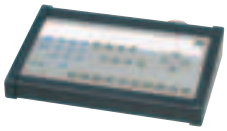
SISTORE CX
Real-time video codec
4/8 video inputs, 200 ips (8 x 25 ips)
2/4 monitor outputs
PTZ control
IVM connection

Monitoring and control

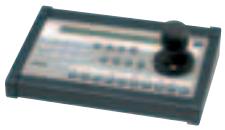
TFT LCD display monitor

DVR remote access software

Interactive Video Management software



Remote keyboard CKA3210



Remote keyboard CKA4820

Video (transmitted)

Video software

IVM security control

Interactive Video Management system

IVM is a scalable, open, interactive system for the control and operation of security applications:
– Controls analogue (SIMATRIX) matrix switchers
– Display of configured site plans with cameras, monitors, alarm lists, log books etc.
– Controls DVR systems (SISTORE)
– Compatible with SiPass access control
– Complete PTZ control
– Multi-client access

IP based products

Hybrid IP cameras

Hybrid IP fixed dome camera

Video input

SISTORE CX1
Real-time video codec
1 video input, 25 ips
1 monitor output
PTZ control
IVM connection
EDS compatible

Video input

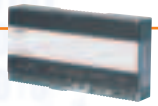
SISTORE CX
Real-time video codec
4/8 video inputs, 200 ips (8 x 25 ips)
2/4 monitor outputs
PTZ control
IVM connection
EDS compatible

Video input

SISTORE MX NVS
IP camera recording software
4/9/16/32 IP camera inputs
Mega pixel recording
PTZ control
IVM connection

LAN

IP input

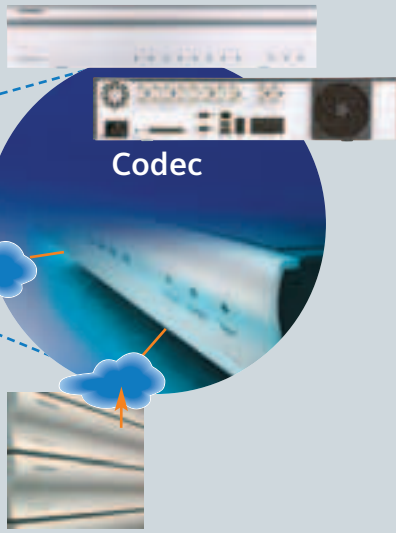


SISTORE MX NVR
Recording up to 16 IP camera inputs
Up to 100 ips
Mega pixel recording
Up to 16 alarm inputs and outputs (optional)

Video input
IP input

SISTORE MX
Hybrid video recorder
4~32 video inputs
Up to 32 IP camera inputs
Up to 200 ips
2/4 monitor outputs
1 audio channel
PTZ control
Export via DVD writer
IVM connection

SISTORE CX
Transceiver (encoder & decoder)
Streaming:
– 200 ips encoding (CIF, 2CIF)
– 100 ips encoding (4CIF)
– 100 ips encoding & 50 ips decoding (2CIF)
– 50 ips encoding & 50 ips decoding (4CIF)
– 100 ips decoding (2CIF, 4CIF)
Compression:
4CIF = ~ DVD quality
2CIF = ~ SVHS quality
CIF = ~ VHS quality



SISTORE CX
Virtual matrix
Scalable digital solution
Video encoder & decoder in one system
Web based control
Multi-client / multi-server access
Internal hard disk storage

Welcome to the world of innovative thinking

Innovation

For the last 160 years, Siemens has been investing a great deal in both manpower and research and development. This has ensured a constant stream of new insights, technologies and inventions that enable us to continuously improve the reliability of our products and systems to make them easier to install and operate.

Advances in digital technologies are creating a whole new world of possibilities. Siemens has been at the leading edge of progress in this field and continues to redefine both current and future technologies.

Interoperability

Interoperable systems are now supplied alongside such basic requirements as lighting, heating and water in a building. As a company, we know that integration supports the business environment through the interaction of products and systems. We break down the barriers between our access control, intrusion detection and video surveillance product lines in our security portfolio and listen to what the market actually wants. We then develop to deliver both fully integrated and interoperable security systems, based on our 30 years of know-how in security.

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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