

XENYUM
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A wide range of products

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Presentation

Xenyum has established itself in the market as a reputable producer of innovative security and video surveillance products and solutions designed to enhance and improve daily lives. Its corporate philosophy is to provide usable products that consumers can trust in and rely on.

Xenyum has been in business since 2005, and has become one of the world's largest security equipment producers. It was founded by a team of experts in computer and video surveillance in order to better respond to the convergence of information systems for security.

Xenyum provides all equipments necessary for the implementation of any solution for video surveillance. It is setting new standards in the field of video camera technology for security applications. Using Xenyum technology, the picture information is well conserved with the highest grade of resolution. Therefore, even situations with a great range in contrast can be recorded. The latest generation of high-resolution sensor technology also provides clear, high-contrast and color-true pictures without any blooming even in the most difficult lighting conditions.

The new range of Xenyum DVR offers powerful functionalities and high quality performance that characterize professional systems.

From DVR 4 Channels to DVR 16 channels, Xenyum redefines system performances and capacities available in digital video recorders.

The most recent range of Xenyum DVR can record up to 16 channels at full resolution (D1).

Thanks to H.264 compression technology, the new Xenyum products redefine expectations of Professionals in relation to an integrated DVR in terms of video and performance.

User-specific software modules bring together Xenyum hard disk recorders, video motion detectors and cameras to form total intelligent systems and ensure user-friendly, simple configuration of all individual components as well as effective and intuitive control of even the largest CCTV solutions.

We present hereafter Xenyum's catalogue of products.

CAMERAS



XC-21 Series



1/3" SONY Color Super HAD CCD
Easy to install and adjust
Stylish design
Light weight
Various applications

Technical Specifications

Model	XC-210	XC-212	XC-215
Image Pick-up Device	1/3" SONY Color Super HAD CCD ICX405	1/3" SONY Color Super HAD CCD ICX409	1/3" SONY Color Super HAD CCD ICX639
CPS Device	CX3142	CX3172	CX3172
Total Pixels	537 (H) X 597 (V)	795 (H) X 596 (V)	795 (H) X 596 (V)
Effective Pixels	500 (H) X 582 (V)	752 (H) X 582 (V)	752 (H) X 582 (V)
Resolution	More than 420 TVL	More than 480 TVL	More than 520 TVL
TV Format	PAL	PAL	PAL
Lens Type	Fixed 3,6mm	Fixed 3,6mm	Fixed 3,6mm
Min Illumination	0.5Lux	0.1Lux	0.1Lux
S/N Ratio	50 dB	50 dB	50 dB
Transfer Method	Interline	Interline	Interline
White Balance	Auto	Auto	Auto
AES	Auto	Auto	Auto
Backlight Compensation	Auto	Auto	Auto
IR Distance	-	-	-
IR Led Number	-	-	-
Protection Rating	-	-	-
Power Source	DC 12V± 10%	DC 12V± 10%	DC 12V± 10%
Power Consumption	120mA	120mA	120mA
Video Output	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector
Operating Temperature	-20°C ~ + 50°C	-20°C ~ + 50°C	-20°C ~ + 50°C
Operating Humidity	30% ~ 70%	30% ~ 70%	30% ~ 70%
Weight	250g	250g	250g

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SONY Super HAD CCD®



* Super HAD CCD is a trademark of Sony Corporation. The Super HAD CCD is a version of Sony's high performance CCD HAD (Hole Accumulation Diode) sensor with sharply improved sensitivity by the incorporation of a new semiconductor technology developed by Sony Corporation.

XC-23 Series



1/3" SONY Color Super HAD CCD
IR LED over 20 meters
Easy to install and adjust
Various applications
Waterproof IP66 rated

Technical Specifications

Model	XC-230	XC-232	XC-235
Image Pick-up Device	1/3" SONY Color Super HAD CCD ICX405	1/3" SONY Color Super HAD CCD ICX409	1/3" SONY Color Super HAD CCD ICX639
CPS Device	CX3142	CX3172	CX3172
Total Pixels	537 (H) X 597 (V)	795 (H) X 596 (V)	795 (H) X 596 (V)
Effective Pixels	500 (H) X 582 (V)	752 (H) X 582 (V)	752 (H) X 582 (V)
Resolution	More than 420 TVL	More than 480 TVL	More than 520 TVL
TV Format	PAL	PAL	PAL
Lens Type	Fixed 3,6mm	Fixed 3,6mm	Fixed 3,6mm
Min Illumination	0,5LUX / 0LUX IR on	0,1LUX / 0LUX IR on	0,1LUX / 0LUX IR on
S/N Ratio	50 dB	50 dB	50 dB
Transfer Method	Interline	Interline	Interline
White Balance	Auto	Auto	Auto
AES	Auto	Auto	Auto
Backlight Compensation	Auto	Auto	Auto
IR Distance	20 meters	20 meters	20 meters
IR Led Number	26 Small LED	26 Small LED	26 Small LED
Protection Rating	IP66	IP66	IP66
Power Source	DC 12V± 10%	DC 12V± 10%	DC 12V± 10%
Power Consumption	350mA	350mA	350mA
Video Output	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector
Operating Temperature	-20°C ~ + 50°C	-20°C ~ + 50°C	-20°C ~ + 50°C
Operating Humidity	30% ~ 70%	30% ~ 70%	30% ~ 70%
Weight	450g	450g	450g

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XC-24 Series



1/3" SONY Color Super HAD CCD
IR LED over 20 meters
Varifocal lens
3 axis adjustment
Stylish design
Easy to install and adjust

Technical Specifications

Model	XC-240	XC-242	XC-245
Image Pick-up Device	1/3" SONY Color Super HAD CCD ICX405	1/3" SONY Color Super HAD CCD ICX409	1/3" SONY Color Super HAD CCD ICX639
CPS Device	CX3142	CX3172	CX3172
Total Pixels	537 (H) X 597 (V)	795 (H) X 596 (V)	795 (H) X 596 (V)
Effective Pixels	500 (H) X 582 (V)	752 (H) X 582 (V)	752 (H) X 582 (V)
Resolution	More than 420 TVL	More than 480 TVL	More than 520 TVL
TV Format	PAL	PAL	PAL
Lens Type	Manual 3,5mm ~ 8mm	Manual 3,5mm ~ 8mm	Manual 3,5mm ~ 8mm
Min Illumination	0,5LUX / 0LUX IR on	0,1LUX / 0LUX IR on	0,1LUX / 0LUX IR on
S/N Ratio	50 dB	50 dB	50 dB
Transfer Method	Interline	Interline	Interline
White Balance	Auto	Auto	Auto
AES	Auto	Auto	Auto
Backlight Compensation	Auto	Auto	Auto
IR Distance	20 meters	20 meters	20 meters
IR Led Number	17 Medium LED	17 Medium LED	17 Medium LED
Protection Rating	-	-	-
Power Source	DC 12V± 10%	DC 12V± 10%	DC 12V± 10%
Power Consumption	250mA	250mA	250mA
Video Output	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector
Operating Temperature	-20°C ~ + 50°C	-20°C ~ + 50°C	-20°C ~ + 50°C
Operating Humidity	30% ~ 70%	30% ~ 70%	30% ~ 70%
Weight	450g	450g	450g

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XC-25 Series



- 1/3" SONY Color Super HAD CCD**
- IR LED over 25 meters**
- Varifocal lens**
- Anti-grip with tri-axis bracket**
- Vandal proof covert**
- Waterproof IP66 rated**
- Various applications**

Technical Specifications

Model	XC-250	XC-252	XC-255
Image Pick-up Device	1/3" SONY Color Super HAD CCD ICX405	1/3" SONY Color Super HAD CCD ICX409	1/3" SONY Color Super HAD CCD ICX639
CPS Device	CX3142	CX3172	CX3172
Total Pixels	537 (H) X 597 (V)	795 (H) X 596 (V)	795 (H) X 596 (V)
Effective Pixels	500 (H) X 582 (V)	752 (H) X 582 (V)	752 (H) X 582 (V)
Resolution	More than 420 TVL	More than 480 TVL	More than 520 TVL
TV Format	PAL	PAL	PAL
Lens Type	Manual 4mm ~ 9mm	Manual 4mm ~ 9mm	Manual 4mm ~ 9mm
Min Illumination	0,5LUX / 0LUX IR on	0,1LUX / 0LUX IR on	0,1LUX / 0LUX IR on
S/N Ratio	50 dB	50 dB	50 dB
Transfer Method	Interline	Interline	Interline
White Balance	Auto	Auto	Auto
AES	Auto	Auto	Auto
Backlight Compensation	Auto	Auto	Auto
IR Distance	25 meters	25 meters	25 meters
IR Led Number	21 Medium LED	21 Medium LED	21 Medium LED
Protection Rating	IP66	IP66	IP66
Power Source	DC 12V± 10%	DC 12V± 10%	DC 12V± 10%
Power Consumption	400mA	400mA	400mA
Video Output	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector
Operating Temperature	-20°C ~ + 50°C	-20°C ~ + 50°C	-20°C ~ + 50°C
Operating Humidity	30% ~ 70%	30% ~ 70%	30% ~ 70%
Weight	1.25kg	1.25kg	1.25kg

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SONY Super HAD CCD®

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XC-71 Series



1/3" SONY Color Super HAD CCD
Built in 3,7mm Pinhole lens
Easy to install and adjust
Motion detector hidden camera
Perfect for covert application

Technical Specifications

Model	XC-710	XC-712	XC-715
Image Pick-up Device	1/3" SONY Color Super HAD CCD ICX405	1/3" SONY Color Super HAD CCD ICX409	1/3" SONY Color Super HAD CCD ICX639
CPS Device	CX3142	CX3172	CX3172
Total Pixels	537 (H) X 597 (V)	795 (H) X 596 (V)	795 (H) X 596 (V)
Effective Pixels	500 (H) X 582 (V)	752 (H) X 582 (V)	752 (H) X 582 (V)
Resolution	More than 420 TVL	More than 480 TVL	More than 520 TVL
TV Format	PAL	PAL	PAL
Lens Type	Fixed 3,7mm	Fixed 3,7mm	Fixed 3,7mm
Min Illumination	0,5LUX	0,1LUX	0,1LUX
S/N Ratio	50 dB	50 dB	50 dB
Transfer Method	Interline	Interline	Interline
White Balance	Auto	Auto	Auto
AES	Auto	Auto	Auto
Backlight Compensation	Auto	Auto	Auto
IR Distance	-	-	-
IR Led Number	-	-	-
Protection Rating	-	-	-
Power Source	DC 12V± 10%	DC 12V± 10%	DC 12V± 10%
Power Consumption	150mA	150mA	150mA
Video Output	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector
Operating Temperature	-20°C ~ + 50°C	-20°C ~ + 50°C	-20°C ~ + 50°C
Operating Humidity	30% ~ 70%	30% ~ 70%	30% ~ 70%
Weight	200g	200g	200g

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SONY Super HAD CCD®



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XC-72 Series



1/3" SONY Color Super HAD CCD
Built in 3,7mm Pinhole lens
Easy to install and adjust
Smoke detector hidden camera
Perfect for covert application

Technical Specifications

Model	XC-720	XC-722	XC-725
Image Pick-up Device	1/3" SONY Color Super HAD CCD ICX405	1/3" SONY Color Super HAD CCD ICX409	1/3" SONY Color Super HAD CCD ICX639
CPS Device	CX3142	CX3172	CX3172
Total Pixels	537 (H) X 597 (V)	795 (H) X 596 (V)	795 (H) X 596 (V)
Effective Pixels	500 (H) X 582 (V)	752 (H) X 582 (V)	752 (H) X 582 (V)
Resolution	More than 420 TVL	More than 480 TVL	More than 520 TVL
TV Format	PAL	PAL	PAL
Lens Type	Fixed 3,7mm	Fixed 3,7mm	Fixed 3,7mm
Min Illumination	0,5LUX	0,1LUX	0,1LUX
S/N Ratio	50 dB	50 dB	50 dB
Transfer Method	Interline	Interline	Interline
White Balance	Auto	Auto	Auto
AES	Auto	Auto	Auto
Backlight Compensation	Auto	Auto	Auto
IR Distance	-	-	-
IR Led Number	-	-	-
Protection Rating	-	-	-
Power Source	DC 12V± 10%	DC 12V± 10%	DC 12V± 10%
Power Consumption	150mA	150mA	150mA
Video Output	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector
Operating Temperature	-20°C ~ + 50°C	-20°C ~ + 50°C	-20°C ~ + 50°C
Operating Humidity	30% ~ 70%	30% ~ 70%	30% ~ 70%
Weight	270g	270g	270g

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XC-73 Series



1/3" SONY Color Super HAD CCD
IR LED over 15 meters
Easy to install and adjust
Stylish design
Light weight

Technical Specifications

Model	XC-730	XC-732	XC-735
Image Pick-up Device	1/3" SONY Color Super HAD CCD ICX405	1/3" SONY Color Super HAD CCD ICX409	1/3" SONY Color Super HAD CCD ICX639
CPS Device	CX3142	CX3172	CX3172
Total Pixels	537 (H) X 597 (V)	795 (H) X 596 (V)	795 (H) X 596 (V)
Effective Pixels	500 (H) X 582 (V)	752 (H) X 582 (V)	752 (H) X 582 (V)
Resolution	More than 420 TVL	More than 480 TVL	More than 520 TVL
TV Format	PAL	PAL	PAL
Lens Type	Fixed 3,6mm	Fixed 3,6mm	Fixed 3,6mm
Min Illumination	0,5LUX / 0LUX IR on	0,1LUX / 0LUX IR on	0,1LUX / 0LUX IR on
S/N Ratio	50 dB	50 dB	50 dB
Transfer Method	Interline	Interline	Interline
White Balance	Auto	Auto	Auto
AES	Auto	Auto	Auto
Backlight Compensation	Auto	Auto	Auto
IR Distance	15 Meters	15 Meters	15 Meters
IR Led Number	17 Small LED	17 Small LED	17 Small LED
Protection Rating	-	-	-
Power Source	DC 12V± 10%	DC 12V± 10%	DC 12V± 10%
Power Consumption	350mA	350mA	350mA
Video Output	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector
Operating Temperature	-20°C ~ + 50°C	-20°C ~ + 50°C	-20°C ~ + 50°C
Operating Humidity	30% ~ 70%	30% ~ 70%	30% ~ 70%
Weight	320g	320g	320g

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XC-62 Series



1/3" SONY Color Super HAD CCD
IR LED over 20 meters
Anti-grip with intelligent bracket
Windproof design
Waterproof IP66 rated

Technical Specifications

Model	XC-620	XC-622	XC-625
Image Pick-up Device	1/3" SONY Color Super HAD CCD ICX405	1/3" SONY Color Super HAD CCD ICX409	1/3" SONY Color Super HAD CCD ICX639
CPS Device	CX3142	CX3172	CX3172
Total Pixels	537 (H) X 597 (V)	795 (H) X 596 (V)	795 (H) X 596 (V)
Effective Pixels	500 (H) X 582 (V)	752 (H) X 582 (V)	752 (H) X 582 (V)
Resolution	More than 420 TVL	More than 480 TVL	More than 520 TVL
TV Format	PAL	PAL	PAL
Lens Type	Fixed 6mm	Fixed 6mm	Fixed 6mm
Min Illumination	0,5LUX / 0LUX IR on	0,1LUX / 0LUX IR on	0,1LUX / 0LUX IR on
S/N Ratio	50 dB	50 dB	50 dB
Transfer Method	Interline	Interline	Interline
White Balance	Auto	Auto	Auto
AES	Auto	Auto	Auto
Backlight Compensation	Auto	Auto	Auto
IR Distance	20 Meters	20 Meters	20 Meters
IR Led Number	36 Small LED	36 Small LED	36 Small LED
Protection Rating	IP66	IP66	IP66
Power Source	DC 12V± 10%	DC 12V± 10%	DC 12V± 10%
Power Consumption	350mA	350mA	350mA
Video Output	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector
Operating Temperature	-20°C ~ + 50°C	-20°C ~ + 50°C	-20°C ~ + 50°C
Operating Humidity	30% ~ 70%	30% ~ 70%	30% ~ 70%
Weight	1,09kg	1,09kg	1,09kg

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SONY Super HAD CCD®

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XC-63 Series



1/3" SONY Color Super HAD CCD
IR LED over 30 meters
Anti-grip with intelligent bracket
Windproof design
Waterproof IP66 rated

Technical Specifications

Model	XC-630	XC-632	XC-635
Image Pick-up Device	1/3" SONY Color Super HAD CCD ICX405	1/3" SONY Color Super HAD CCD ICX409	1/3" SONY Color Super HAD CCD ICX639
CPS Device	CX3142	CX3172	CX3172
Total Pixels	537 (H) X 597 (V)	795 (H) X 596 (V)	795 (H) X 596 (V)
Effective Pixels	500 (H) X 582 (V)	752 (H) X 582 (V)	752 (H) X 582 (V)
Resolution	More than 420 TVL	More than 480 TVL	More than 520 TVL
TV Format	PAL	PAL	PAL
Lens Type	Fixed 6mm	Fixed 6mm	Fixed 6mm
Min Illumination	0,5LUX / 0LUX IR on	0,1LUX / 0LUX IR on	0,1LUX / 0LUX IR on
S/N Ratio	50 dB	50 dB	50 dB
Transfer Method	Interline	Interline	Interline
White Balance	Auto	Auto	Auto
AES	Auto	Auto	Auto
Backlight Compensation	Auto	Auto	Auto
IR Distance	30 Meters	30 Meters	30 Meters
IR Led Number	42 Small LED	42 Small LED	42 Small LED
Protection Rating	IP66	IP66	IP66
Power Source	DC 12V± 10%	DC 12V± 10%	DC 12V± 10%
Power Consumption	400mA	400mA	400mA
Video Output	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector
Operating Temperature	-20°C ~ + 50°C	-20°C ~ + 50°C	-20°C ~ + 50°C
Operating Humidity	30% ~ 70%	30% ~ 70%	30% ~ 70%
Weight	1,16kg	1,16kg	1,16kg

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XC-82 Series



1/3" SONY Color Super HAD CCD
IR LED over 20 meters
Varifocal lens
Anti-grip with intelligent bracket
Windproof design
Waterproof IP66 rated

Technical Specifications

Model	XC-820	XC-822	XC-825
Image Pick-up Device	1/3" SONY Color Super HAD CCD ICX405	1/3" SONY Color Super HAD CCD ICX409	1/3" SONY Color Super HAD CCD ICX639
CPS Device	CX3142	CX3172	CX3172
Total Pixels	537 (H) X 597 (V)	795 (H) X 596 (V)	795 (H) X 596 (V)
Effective Pixels	500 (H) X 582 (V)	752 (H) X 582 (V)	752 (H) X 582 (V)
Resolution	More than 420 TVL	More than 480 TVL	More than 520 TVL
TV Format	PAL	PAL	PAL
Lens Type	Manual 4mm ~ 9mm	Manual 4mm ~ 9mm	Manual 4mm ~ 9mm
Min Illumination	0,5LUX / 0LUX IR on	0,1LUX / 0LUX IR on	0,1LUX / 0LUX IR on
S/N Ratio	50 dB	50 dB	50 dB
Transfer Method	Interline	Interline	Interline
White Balance	Auto	Auto	Auto
AES	Auto	Auto	Auto
Backlight Compensation	Auto	Auto	Auto
IR Distance	20 Meters	20 Meters	20 Meters
IR Led Number	36 Small LED	36 Small LED	36 Small LED
Protection Rating	IP66	IP66	IP66
Power Source	DC 12V± 10%	DC 12V± 10%	DC 12V± 10%
Power Consumption	350mA	350mA	350mA
Video Output	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector
Operating Temperature	-20°C ~ + 50°C	-20°C ~ + 50°C	-20°C ~ + 50°C
Operating Humidity	30% ~ 70%	30% ~ 70%	30% ~ 70%
Weight	1,09kg	1,09kg	1,09kg

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XC-83 Series



1/3" SONY Color Super HAD CCD
IR LED over 30 meters
Varifocal lens
Anti-grip with intelligent bracket
Windproof design
Waterproof IP66 rated

Technical Specifications

Model	XC-830	XC-832	XC-835
Image Pick-up Device	1/3" SONY Color Super HAD CCD ICX405	1/3" SONY Color Super HAD CCD ICX409	1/3" SONY Color Super HAD CCD ICX639
CPS Device	CX3142	CX3172	CX3172
Total Pixels	537 (H) X 597 (V)	795 (H) X 596 (V)	795 (H) X 596 (V)
Effective Pixels	500 (H) X 582 (V)	752 (H) X 582 (V)	752 (H) X 582 (V)
Resolution	More than 420 TVL	More than 480 TVL	More than 520 TVL
TV Format	PAL	PAL	PAL
Lens Type	Manual 4mm ~ 9mm	Manual 4mm ~ 9mm	Manual 4mm ~ 9mm
Min Illumination	0,5LUX / 0LUX IR on	0,1LUX / 0LUX IR on	0,1LUX / 0LUX IR on
S/N Ratio	50 dB	50 dB	50 dB
Transfer Method	Interline	Interline	Interline
White Balance	Auto	Auto	Auto
AES	Auto	Auto	Auto
Backlight Compensation	Auto	Auto	Auto
IR Distance	30 Meters	30 Meters	30 Meters
IR Led Number	42 Small LED	42 Small LED	42 Small LED
Protection Rating	IP66	IP66	IP66
Power Source	DC 12V± 10%	DC 12V± 10%	DC 12V± 10%
Power Consumption	400mA	400mA	400mA
Video Output	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector
Operating Temperature	-20°C ~ + 50°C	-20°C ~ + 50°C	-20°C ~ + 50°C
Operating Humidity	30% ~ 70%	30% ~ 70%	30% ~ 70%
Weight	1,16kg	1,16kg	1,16kg

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XC-85 Series



1/3" SONY Color Super HAD CCD
IR LED over 50 meters
Varifocal lens
Anti-grip with intelligent bracket
Windproof design
Waterproof IP66 rated

Technical Specifications

Model	XC-850	XC-852	XC-855
Image Pick-up Device	1/3" SONY Color Super HAD CCD ICX405	1/3" SONY Color Super HAD CCD ICX409	1/3" SONY Color Super HAD CCD ICX639
CPS Device	CX3142	CX3172	CX3172
Total Pixels	537 (H) X 597 (V)	795 (H) X 596 (V)	795 (H) X 596 (V)
Effective Pixels	500 (H) X 582 (V)	752 (H) X 582 (V)	752 (H) X 582 (V)
Resolution	More than 420 TVL	More than 480 TVL	More than 520 TVL
TV Format	PAL	PAL	PAL
Lens Type	Manual 4mm ~ 9mm	Manual 4mm ~ 9mm	Manual 4mm ~ 9mm
Min Illumination	0,5LUX / 0LUX IR on	0,1LUX / 0LUX IR on	0,1LUX / 0LUX IR on
S/N Ratio	50 dB	50 dB	50 dB
Transfer Method	Interline	Interline	Interline
White Balance	Auto	Auto	Auto
AES	Auto	Auto	Auto
Backlight Compensation	Auto	Auto	Auto
IR Distance	50 Meters	50 Meters	50 Meters
IR Led Number	35 Big LED	35 Big LED	35 Big LED
Protection Rating	IP66	IP66	IP66
Power Source	DC 12V± 10%	DC 12V± 10%	DC 12V± 10%
Power Consumption	600mA	600mA	600mA
Video Output	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector	1.0Vp-p, 75 Ohm, BNC connector
Operating Temperature	-20°C ~ + 50°C	-20°C ~ + 50°C	-20°C ~ + 50°C
Operating Humidity	30% ~ 70%	30% ~ 70%	30% ~ 70%
Weight	1,24kg	1,24kg	1,24kg

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SONY Super HAD CCD®

FC CE ROHS

* Super HAD CCD is a trademark of Sony Corporation. The Super HAD CCD is a version of Sony's high performance CCD HAD (Hole Accumulation Diode) sensor with sharply improved sensitivity by the incorporation of a new semiconductor technology developed by Sony Corporation.



The integrative camera of auto-identify
Built in auto thermostatic control system with patent
Continuous 360°rotation, max 300°/s can be adjusted
128 preset position (title can be setup)
3 patterns scan roads (pattern scan)
Integrated multi-protocol can set ID remotely
channel alarm input, 2 channel alarm output
The dynamic ID can be revised on menu

Technical Specifications

Model	XC-923	XC-927	XC-930
Image Sensor	3.6mm (H) x 2.7mm(V) 1/4CCD		
Video Output	1.0Vp-p 75 Ohm, BNC		
Horizontal Resolution	540TVL(Color) / 570TVL (B/W)		
S/N Ratio	≥50dB		
Min Illumination	0.7Lux (color) 0.1Lux (B/W)	0.4Lux (color) 0.001Lux (B/W)	0.4Lux (color) 0.001Lux (B/W)
Iris Range	F1.6-34,Close	F1.6-34,Close	F1.6-32,Close
Opposite Focus	Auto/Manual		
Focus	23x f=3.84mm-88.4mm (F 1.6 to 3.2)	27x f=3.84mm-103.68mm (F 1.6 to 3.2)	30x f=3.3mm-99mm (F 1.6 to 3.2)
Digital Zoom	23×10		30×8
BLC	On/Off		
White Balance	No		
Electronic Shutter	Auto / Manual		
Control Method	RS485		
Menu Display	ON/OFF (Preset add. Area name, 8 Characters, 3D coordination, Temperature Display)		
Preset Points	128 Presets		
Preset Point Setting Content	Pan (Up, Down, Left and Right), Camera (Multiple/Focus)		
Patrol Tracks	3 Lines		
Privacy Zone	Yes		
Self Study Function	Yes		
Angle Display Function	Yes		
Home Place	Yes		
Alarm Function	4 input/ 2 output		
Left & Right Rotation Range	Continuous 360° Rotation		
Left & Right Speed	0.1° - 300° /s		
Up & Down Rotation Range	0° ~ 90°		
Up & Down Speed	0.1°-120°		
Auto Flip	90° Vertical		
Video Protection	Yes		
Communication Protection	Yes		
Power Protection	Yes		
Metal Protection	IP66		
Power Input	AC24V or DC15V (wide voltage design)		
Operation Temperature	-45°C ~ +50°C		

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DIGITAL VIDEO RECORDER



XDVR-C Series



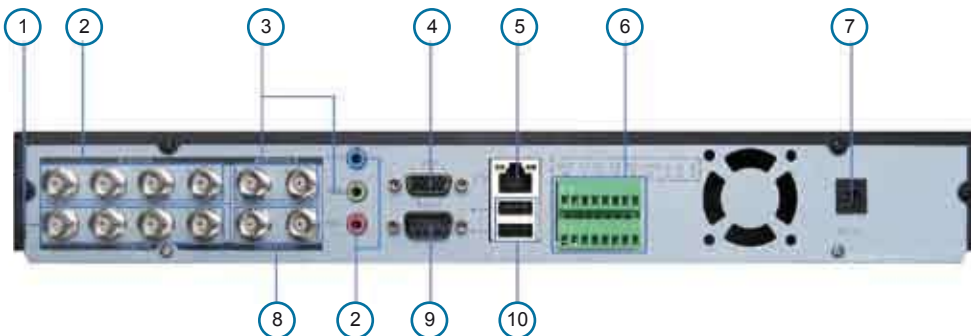
Technical Specifications

Model	XDVR-C04	XDVR-C08	XDVR-C16
System			
Main Processor	High performance embedded microprocessor		
Operating System	Embedded LINUX		
System Resources	Pentaplex function: live, recording, playback, backup & remote access		
User Interface	GUI, on-screen menu tips.		
Control Device	USB mouse, keyboard, IR remote control, network keyboard.		
Input Method	Numeral/Character/Denotation		
System Status	HDD status, data stream statistics, log record, bios version, on-line user and etc.		
Hard Disk			
Hard Disk	1 SATA ports, 1HDDs supported.	4 SATA ports, 4 HDDs supported.	
Space Occupation	Audio : 14.4MB/H Video : 56 ~ 400MB/H		
HDD Management	Hard disk hibernation technology, HDD faulty alarm & Raid (Redundancy)		
Auxiliary Interface			
USB Interface	1 for mouse control, 1 for backup.		
RS232	Keyboard, PC communication		
RS485	PTZ control		
Environmental			
Power Supply	220V 50Hz / 110V 60Hz		
Power Consumption	25W	30W	40W
Working Temperature	-10°C ~ +55°C		
Working Humidity	10% ~ 90%		
Atmosphere Pressure	86kpa ~ 106kpa		
Dimension	1.5U, 440mmx460mmx68mm (W*D*H)		
Weight	3.25Kg		
Mounting	Desktop or rack		

Video			
Video Input	4 Channel BNC	8 Channel BNC	16 Channel BNC
Video Output	2 channel TV BNC, 1 VGA	2 channel TV BNC, 1 VGA, 8 Loop, 1 channel Matrix Out	2 channel TV BNC, 1 VGA, 16 Loop, 1 channel Matrix Out
Video Standards	PAL (625Line, 50f/s) NTSC (525Line, 60f/s)		
Video Compression	H.264		
Video Resolution	D1 (4CIF): NTSC (704*480) / PAL (704*576) CIF: NTSC (352 *240) / PAL (352 *288)		
Video Recording	D1 (4CIF): NTSC (1f/s ~ 7f/s) / PAL (1f/s ~ 6f/s) CIF: NTSC (1f/s ~ 30f/s) / PAL (1f/s ~ 25f/s)		
Video Display Split	Full and multiple screen display, 1 / 4	Full and multiple screen display, 1 / 4 / 8 / 9	Full and multiple screen display, 1 / 4 / 8 / 9 / 16
Tour Display	Support		
Image Quality	1 ~ 6 level (level 6 is the best)		
Privacy Masking	Self-defined four-sided zone for privacy masking for each camera		
Camera Lock	Camera locked for users		
Camera Adjustment	Adjust color according to different time period		
Video Information	Camera title, time, video loss, camera lock, motion detection, recording		
TV Output Adjustment	Adjust TV output color & display zone		
Audio			
Audio Input	4 channel, BNC, 200-2800mV, 30KΩ		
Bidirectional Talk Input	None		
Audio Output	1 channel, BNC, 200-3000mv, 5KΩ		
Audio Compression	ADPCM		
Video Detection & Alarm			
Motion Detection	Zones: PAL 396 (22*18)/NTSC 330(22*15) detection zones, Sensitivity: 1~6 (level 6 is highest), Trigger recording, PTZ movement, tour, alarm & FTP		
Video Loss	Trigger recording, PTZ movement, tour, alarm & FTP		
Camera masking	Trigger recording, PTZ movement, tour, alarm & FTP		
Alarm Input Channel	4 channel	16 channel	16 channel
Alarm Input Options	programmable, ground, manual open/closed, Trigger recording, PTZ movement, tour, alarm & FTP		
Alarm Output Channel	3 channel	6 channel	6 channel
Relay output Options	30VDC, 1A, NO/NC, form-C		
Record, Playback & Backup			
Recording Mode	Manual, continuous, video detection (including motion detection, camera masking, video loss), Alarm		
Recording Priority	Manual >Alarm >Video Detection >Continuous.		
Recording Interval	1 to 120 minutes (default: 60 minutes)		
Overwrite Mode	Support		
Raid Function	Support		
Search Mode	Time/Date, Alarm, Motion Detection & exact search (accurate to second)		
Playback channel	4 Channel simultaneously		
Playback Options	Play, pause, stop, rewind, fast play, slow play, next file, previous file, next camera, previous camera, full screen, repeat, shuffle, backup selection.		
Digital Zoom	Selected zone can zoom into full screen during playback		
Backup Mode	Flash stick/ USB HDD/ USB CD-RW/DVD-RW/ built-in SATA Burner/ network download		
Network			
Interface	RJ-45 Port (10/100M)		
Network Functions	TCP/IP, DHCP, DDNS, PPPoE, E-mail, FTP		
Remote operation	Monitor, PTZ control, playback, system setting, file download, log information		

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Back Panel



1. Video In
2. Audio In
3. Audio Out
4. VGA Out
5. 10/100M RJ45 Port
6. Alarm In & Alarm Out. RS485 Port
7. Power In
8. Video Out
9. RS232 Port
10. USB Port



XDVR-D Series



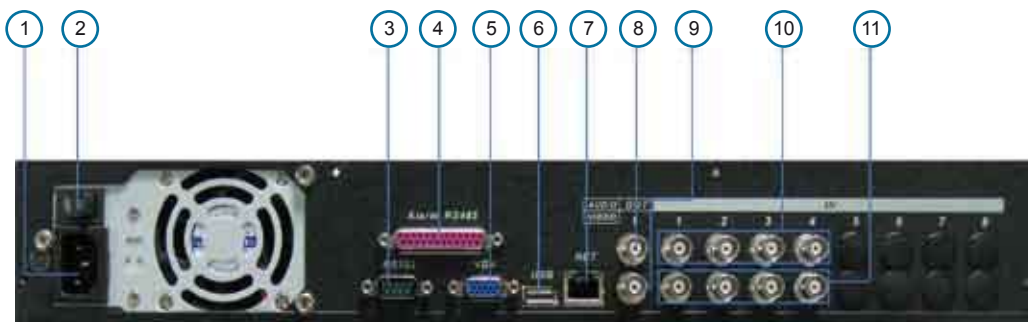
Technical Specifications

Model	XDVR-D04	XDVR-D08	XDVR-D16
System			
Main Processor	High performance embedded microprocessor		
Operating System	Embedded LINUX		
System Resources	Pentaplex function: live, recording, playback, backup & remote access		
User Interface	GUI, on-screen menu tips.		
Control Device	USB mouse, keyboard, IR remote control, network keyboard.		
Input Method	Numeral/Character/Denotation		
System Status	HDD status, data stream statistics, log record, bios version, on-line user and etc.		
Hard Disk			
Hard Disk	4 SATA ports, 4 HDDs supported.		
Space Occupation	Audio : 14.4MB/H Video : 56 ~ 400MB/H		
HDD Management	Hard disk hibernation technology, HDD faulty alarm & Raid (Redundancy)		
Auxiliary Interface			
USB Interface	1 for mouse control, 1 for backup.		
RS232	Keyboard, PC communication		
RS485	PTZ control		
Environmental			
Power Supply	220V 50Hz / 110V 60Hz		
Power Consumption	25W	30W	40W
Working Temperature	-10°C ~ +55°C		
Working Humidity	10% ~ 90%		
Atmosphere Pressure	86kpa ~ 106kpa		
Dimension	1.5U, 440mmx460mmx68mm (W*D*H)		
Weight	7.0Kg		
Mounting	Desktop or rack		

Video			
Video Input	4 Channel BNC	8 Channel, BNC, 1.0Vp-p, 75Ω, looping(optional)	16 Channel, BNC, 1.0Vp-p, 75Ω, looping(optional)
Video Output	1 channel TV BNC, 1 VGA	2 channel TV BNC, 1 VGA, 8 Loop, 1 channel Matrix Out	2 channel TV BNC, 1 VGA, 16 Loop, 1 channel Matrix Out
Video Standards	PAL (625Line, 50f/s) NTSC (525Line, 60f/s)		
Video Compression	H.264		
Video Resolution	D1 (4CIF): NTSC (704*480) / PAL (704*576) CIF: NTSC (352 *240) / PAL (352 *288)		
Video Recording	D1 (4CIF): NTSC (1f/s ~ 7f/s) / PAL (1f/s ~ 6f/s) CIF: NTSC (1f/s ~ 30f/s) / PAL (1f/s ~ 25f/s)		
Video Display Split	Full and multiple screen display, 1 / 4	Full and multiple screen display, 1 / 4 / 8 / 9	Full and multiple screen display, 1 / 4 / 8 / 9 / 16
Tour Display	Support		
Image Quality	1~6 level (level 6 is the best)		
Privacy Masking	Self-defined four-sided zone for privacy masking for each camera		
Camera Lock	Camera locked for users		
Camera Adjustment	Adjust color according to different time period		
Video Information	Camera title, time, video loss, camera lock, motion detection, recording		
TV Output Adjustment	Adjust TV output color & display zone		
Audio			
Audio Input	4 channel, BNC, 200-2800mV, 30KΩ		
Bidirectional Talk Input	None	1 channel, BNC, 200-2800mV, 30KΩ	
Audio Output	1 channel, BNC, 200-3000mv, 5KΩ		
Audio Compression	ADPCM		
Video Detection & Alarm			
Motion Detection	Zones: PAL 396 (22*18)/NTSC 330(22*15) detection zones, Sensitivity: 1~ 6 (level 6 is highest), Trigger recording, PTZ movement, tour, alarm & FTP		
Video Loss	Trigger recording, PTZ movement, tour, alarm, e-mail & FTP		
Camera masking	Trigger recording, PTZ movement, tour, alarm, e-mail & FTP		
Alarm Input Channel	4 channel	16 channel	16 channel
Alarm Input Options	programmable, ground, manual open/closed, Trigger recording, PTZ movement, tour, alarm & FTP		
Alarm Output Channel	3 channel	6 channel	6 channel
Relay output Options	30VDC, 1A, NO/NC, form-C		
Record, Playback & Backup			
Recording Mode	Manual, continuous, video detection (including motion detection, camera masking, video loss), Alarm		
Recording Priority	Manual >Alarm >Video Detection >Continuous.		
Recording Interval	1 to 120 minutes (default: 60 minutes)		
Overwrite Mode	Support		
Raid Function	Support		
Search Mode	Time/Date, Alarm, Motion Detection & exact search (accurate to second)		
Playback channel	up to 2 Channel		
Playback Options	Play, pause, stop, rewind, fast play, slow play, next file, previous file, next camera, previous camera, full screen, repeat, shuffle, backup selection.		
Digital Zoom	Selected zone can zoom into full screen during playback		
Backup Mode	Flash stick/ USB HDD/ USB CD-RW/DVD-RW/ built-in SATA Burner/ network download		
Network			
Interface	RJ-45 Port (10/100M)		
Network Functions	TCP/IP, DHCP, DDNS, PPPoE, E-mail, FTP		
Remote operation	Monitor, PTZ control, playback, system setting, file download, log information		

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Back Panel



1. Power In
2. Power Switch
3. RS232 Port Audio In
4. Alarm In & Alarm Out. RS485 Port
5. VGA Out
6. USB Port
7. 10/100M RJ45 Port
8. Audio Out
9. Video Out
10. Audio In
11. Video In



XDVR-E Series



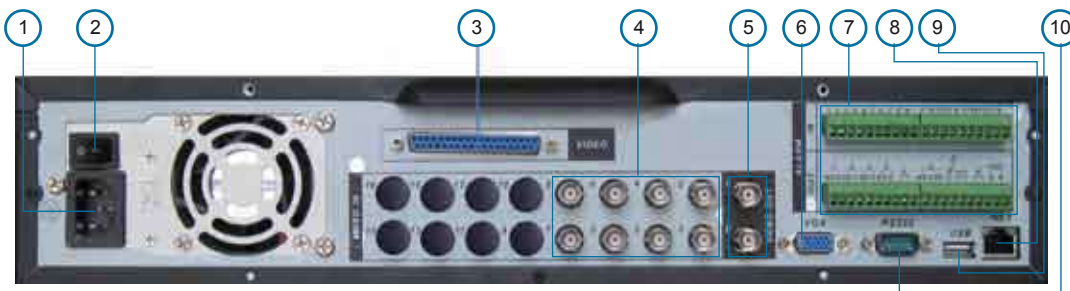
Technical Specifications

Model	XDVR-E04	XDVR-E08	XDVR-E16
System			
Main Processor	High performance embedded microprocessor		
Operating System	Embedded LINUX		
System Resources	Pentaplex function: live, recording, playback, backup & remote access		
User Interface	GUI, on-screen menu tips.		
Control Device	USB mouse, keyboard, IR remote control, network keyboard.		
Input Method	Numeral/Character/Denotation		
System Status	HDD status, data stream statistics, log record, bios version, on-line user and etc.		
Hard Disk			
Hard Disk	8 SATA ports, 8 HDDs supported.		
Space Occupation	Audio : 14.4MB/H Video : 56 ~ 400MB/H		
HDD Management	Hard disk hibernation technology, HDD faulty alarm & Raid (Redundancy)		
Auxiliary Interface			
USB Interface	1 for mouse control, 1 for backup.		
RS232	Keyboard, PC communication		
RS485	PTZ control		
Environmental			
Power Supply	220V 50Hz / 110V 60Hz		
Power Consumption	25W	30W	40W
Working Temperature	-10°C ~ +55°C		
Working Humidity	10% ~ 90%		
Atmosphere Pressure	86kpa ~ 106kpa		
Dimension	2U, 440mmx460mmx89mm (W*D*H)		
Weight	12KG		
Mounting	Desktop or rack		

Video			
Video Input	4 Channel BNC	8 Channel, BNC, 1.0Vp-p, 75Ω, looping(optional)	16 Channel, BNC, 1.0Vp-p, 75Ω, looping(optional)
Video Output	1 channel TV BNC, 1 VGA, 4 Loop, 1channel Matrix Out	2 channel TV BNC, 1 VGA, 8 Loop, 1 channel Matrix Out	2 channel TV BNC, 1 VGA, 16 Loop, 1 channel Matrix Out
Video Standards	PAL (625Line, 50f/s) NTSC (525Line, 60f/s)		
Video Compression	H.264		
Video Resolution	D1 (4CIF): NTSC (704*480) / PAL (704*576) CIF: NTSC (352 *240) / PAL (352 *288)		
Video Recording	D1 (4CIF): NTSC (1f/s ~ 7f/s) / PAL (1f/s ~ 6f/s) CIF: NTSC (1f/s ~ 30f/s) / PAL (1f/s ~ 25f/s)		
Video Display Split	Full and multiple screen display, 1 / 4	Full and multiple screen display, 1 / 4 / 8 / 9	Full and multiple screen display, 1 / 4 / 8 / 9 / 16
Tour Display	Support		
Image Quality	1 ~ 6 level (level 6 is the best)		
Privacy Masking	Self-defined four-sided zone for privacy masking for each camera		
Camera Lock	Camera locked for users		
Camera Adjustment	Adjust color according to different time period		
Video Information	Camera title, time, video loss, camera lock, motion detection, recording		
TV Output Adjustment	Adjust TV output color & display zone		
Audio			
Audio Input	4 channel, BNC, 200-2800mV, 30KΩ	8 channel, BNC, 200-2800mV, 30KΩ	16 channel, BNC, 200-2800mV, 30KΩ
Bidirectional Talk Input	1 channel, BNC, 200-2800mV, 30KΩ		
Audio Output	1 channel, BNC, 200-3000mv, 5KΩ		
Audio Compression	ADPCM		
Video Detection & Alarm			
Motion Detection	Zones: PAL 396 (22*18)/NTSC 330(22*15) detection zones, Sensitivity: 1 ~ 6 (level 6 is highest), Trigger recording, PTZ movement, tour, alarm & FTP		
Video Loss	Trigger recording, PTZ movement, tour, alarm, e-mail & FTP		
Camera masking	Trigger recording, PTZ movement, tour, alarm, e-mail & FTP		
Alarm Input Channel	4 channel	16 channel	16 channel
Alarm Input Options	Programmable, ground, manual open/closed, Trigger recording, PTZ movement, tour, alarm, email & FTP		
Alarm Output Channel	3 channel, 30VDC, 1A, NO/NC, form-C	6 channel, 30VDC, 1A, NO/NC, form-C	6 channel, 30VDC, 1A, NO/NC, form-C
Relay output Options	30VDC, 1A, NO/NC, form-C		
Record, Playback & Backup			
Recording Mode	Manual, continuous, video detection (including motion detection, camera masking, video loss), Alarm		
Recording Priority	Manual > Alarm > Video Detection > Continuous.		
Recording Interval	1 to 120 minutes (default: 60 minutes)		
Overwrite Mode	Support		
Raid Function	Support		
Search Mode	Time/Date, Alarm, Motion Detection & exact search (accurate to second)		
Playback channel	up to 4 Channel		
Playback Options	Play, pause, stop, rewind, fast play, slow play, next file, previous file, next camera, previous camera, full screen, repeat, shuffle, backup selection.		
Digital Zoom	Selected zone can zoom into full screen during playback		
Backup Mode	Flash stick/ USB HDD/ USB CD-RW/DVD-RW/ built-in SATA Burner/ network download		
Network			
Interface	RJ-45 Port (10/100M)		
Network Functions	TCP/IP, DHCP, DDNS, PPPoE, E-mail, FTP		
Remote operation	Monitor, PTZ control, playback, system setting, file download, log information		

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Back Panel



1. Power In
2. Power Switch
3. Audio In, Loop & Matrix Out
4. Video In
5. Video Out
6. VGA Out
7. Alarm In & Alarm Out. RS485 Port
8. 10/100M RJ45 Port
9. USB Port
10. RS232 Port



Video compression standard H.264

Storage saving @ improved video quality

The latest video compression standard H.264 is set to become the video standard reference in the coming years. It has already been successfully integrated in electronic gadgets such as mobile phones and digital video players. In the area of video surveillance, H.264 offers new possibilities in terms of storage cost saving and increasing overall efficiency.

H.264 is an open license standard, compatible with video compression techniques which are the most effective today. An H.264 encoder can reduce the size of a digital video file to more than 80% compared to the conventional Motion standard JPEG and to 50% compared to the traditional standard MPEG-4 Part 2 without compromises in picture quality. The importance of these earnings makes H.264 extremely useful for video surveillance applications.

ACCESSORIES



Keyboard



XK-30



XK-20

Model	Xk-30
MULTIPROTOCOL	13 PROTOCOLS
NUMBER OF CAMERA	32
PRESET PER CAMERA	128
COMMUNICATION PORT	RS-485
BAUD RATE	2400 TO 19200 bps
JOYSTICK FUNCTION	PAN/TILT/ZOOM
MAXIMUM DISTANCE	1200m
POWER SUPPLY	12V/0,8mA
WEIGHT	2Kg

Model	Xk-30
MULTIPROTOCOL	8 PROTOCOLS
NUMBER OF CAMERA	32
PRESET PER CAMERA	64
COMMUNICATION PORT	RS-485
BAUD RATE	2400 TO 19200 bps
JOYSTICK FUNCTION	PAN/TILT/ZOOM WITH BOUTON
MAXIMUM DISTANCE	1200m
POWER SUPPLY	12V/0,5mA
WEIGHT	0,5Kg

Power Supply Distributer



Short protection
Overcurrent protection
Overvoltage protection

Model	XP-21018	XP-31018	XP-20509	XP-20509
Input Voltage	200-240VAC 50-60Hz	200-240VAC 50-60Hz	200-240VAC 50-60Hz	200-240VAC 50-60Hz
Output Voltage	12V	12V	12V	12V
ADJ	11-13V	11-13V	11-13V	11-13V
Output Channel	18	18	9	9
Output current per channel	18 X 0,5mA	18 X 0,5mA	9 X 0,5mA	9 X 0,5mA
Output current	10mA	10mA	5mA	5mA
Output power	145W	145W	60W	60W
Output power (MAX)	200W	200W	90W	90W
Output short protection	Yes	Yes	Yes	Yes
Output overcurrent protection	Yes	Yes	Yes	Yes
Output overvoltage protection	Yes	Yes	Yes	Yes

Housing

XV-H07HB



waterproof IP66
Fan and thermostat

XV-H12HB



Seal IP66
Fan and thermostat

Lens

XSSV-02806



Lens

Manual iris, Vari focal distance 2,8mm - 6mm

XSSV-0308



Lens

Auto Iris, Vari focal distance 3mm - 8mm

XSSV-0358



Lens

Auto Iris, Vari focal distance 3,5mm - 8mm

XSSV-050100



Lens

Auto Iris, Vari focal distance 5mm -100mm

XSSV-06015



Lens

Manual iris, Vari focal distance 6mm - 15mm

XSSV-06060



Lens

Auto Iris, Vari focal distance 6mm - 60mm

BNC

XV-7012



BNC connector with Filtrage

XV-7088



BNC connector

XV-7077



BNC connector T

XV-7056



BNC RCA (M) adapter

XV-7071



BNC RCA (F) adapter

XV-7061



Lengthen BNC

Power supply Adapter

XV-PA003



220V ac-12v DC, 1A, 1 Output

XV-PA0402



220V ac-12v DC, 2A, 4 Output

XV-PA0403



220V ac-12v DC, 3A, 4 Output

Cable

XV-590015



Coaxial cable 1 meter for kit of test

XV-5995200



Coaxial cable + electrical cable 60 meters

XV-5996025



Coaxial cable + electrical cable 6 meters

Braket

XV-B06



Fonte 15 cm

XV-B20



Fonte 24 cm

Adapter

XADP-01



Adapter BNC/FTP

Converter

XRS-01



Converter RS232/RS485

Microphone

XV-MP001



Microphone Filtered and amplified

Glossary

AC :

Alternating Current (AC). The wiring convention where electricity is transmitted down a pair of wires by alternating the polarity (positive virus negative) between the two wires. By convention the alternating frequency is 60 Hz, but the voltage may vary. 24 Volt AC is a common voltage used in security cameras.

ActiveX :

ActiveX refers to a custom software program that is downloaded and plugged into a web browser. An ActiveX plug-in is specific to Microsoft's Internet Explorer web browser.

AGC :

Automatic Gain Control (AGC) is a feature of many security cameras that helps keep the strength of the output signal constant, even when the light level changes. In other words, it boosts the signal strength at low light levels, and caps it at higher levels.

Auto Iris :

Cameras with an Auto Iris (AI) feature have the ability to compensate for large variations in light levels. Particularly useful for cameras that need to compensate for changes from bright sunlight to dark shadows. The auto iris circuitry is normally linked to a motorized iris drive that physically opens and shuts the iris on the lens. Closing a physical iris is a much better way to protect a camera from being damaged by bright sunlight then simply using electronics to reduce the signal strength.

AVC :

Advanced Video Coding (AVC) is the name given to the video compression standard that is the result of a combined efforts of the ITU and MPEG groups. Internally, the ITU calls the standard H.264 and the MPEG group is called MPEG-4 (part 10). Publically, people are encouraged to use the term AVC.

BLC :

Back Light Compensation is a feature of CCD cameras which allows viewing of highlighted scenes that would normally be silhouetted and therefore giving more detail.

BNC :

A BNC is a popular form of video connector used in selecting a digital video recorder (dvr). BNC is a bayonet style connector for coaxial cable that is most commonly used to connect security cameras.

Glossary

CCD :

A Charge Coupled Device (CCD) is a computer chip used to convert light entering a camera into an electronic image. The size is measured diagonally is most often 1/4", 1/3", or 1/2" inches. There are two types, frame transfer and interline transfer. It operates by converting light energy into an electrical charge.

A CCD consists of several hundred thousand individual picture elements (pixels) on a tiny 1/2", 1/3", or 1/4" chip. Each pixel responds to light falling on it by storing a tiny charge of electricity. The pixels are arranged on a precise grid, with vertical and horizontal transfer registers carrying the signals to the camera's video processing circuitry. This transfer of signals occurs sixty times per second. The CCD camera's electronic shutter is not really a moving shutter, but a clever piece of signal processing. Under low light conditions, the CCD is allowed to gather signal for the full 1/60th of a second. Under brighter lighting conditions, the video processing chip automatically responds by reading the CCD and then immediately "early purging" it, resulting in precise control over the video level. Even at a shutter speed of 1/100,000 of a second, the CCD camera is still delivering 60 images per second, but each image is gathered over a much shorter period of time. It doesn't end with the CCD...the image is constantly monitored and optimised by advanced on board signal processing circuitry. The end result is a fantastic picture, with no fiddling, no adjustments, and best of all, unbelievable reliability.

CCIR :

CCIR is an abbreviation of Committee Consultative International Radio communications. It is commonly used as a shorthand to refer to the analog video signal used for monochrome security cameras in most of Europe, Australia and the Middle East. Briefly, the specification is for 625 lines at 50Hz.

CIF :

The Common Intermediate Format (CIF) is the default frame resolution of most DVR systems. In each CIF frame there are 288 lines and 352 pixels per line. Or, more simply a resolution of 352x288.

Sometimes also called Full CIF (FCIF).

D1 :

In video surveillance D1 refers to a resolution of 720x486 (NTSC) or 720x576 (PAL). The term D1 was coined by Sony and is the name of the format Sony used for one of the first implementations of fully digitized video tape.

Glossary

DA :

A distribution amplifier (DA) is a device used to amplify an input audio or video signal to multiple outputs. A DA is often used in a situation where the signal needs to be split between a number of video monitors or recording devices.

It is possible to use T connector to split a signal into two different wires, but doing this often creates problems when you split more than once. The reason is that there can be an impedance problem; meaning that there is not enough power in the signal to drive each of the end points. Each end point has an impedance (or resistance) and takes a bit of the electricity in the signal away.

pixels per line. Or, more simply a resolution of 352x288.
Sometimes also called Full CIF (FCIF).

DAT :

DAT is an abbreviation for Digital Audio Tape. DAT, as the name suggests, was developed to store audio streams (e.g. music) in a digital, as opposed to analog, format. It was developed as a replacement for audio cassette tapes.

In practice, DAT tapes are used to store or backup files on a computer. DAT tapes and DAT drives are available from many online computer retailers.

DVR :

A Digital Video Recorder (DVR) that takes analog video signals from security cameras and converts the video stream into a digital format for storage on an internal hard drive. A DVR also provides a user interface for managing the stored video files and often features for setting motion detection and controlling PTZ security cameras.

In selecting a digital video recorder (dvr), a DVR often provides a method of accessing the system remotely over the Internet in addition to the management interface accessed directly on the system.

The term DVR is also used in consumer electronics for a device that can record, pause, and playback television.

EI :

An Electronic Iris (EI) is a feature of some CCD security cameras that mimics a traditional auto iris using electronics. In this case, the traditional auto iris is much preferred over an EI because excessive light on the CCD can damage it over time.

Glossary

FCC :

The US Federal Communications Commission (FCC). Check out their web site at [www, fcc, gov](http://www.fcc.gov) .

The FCC regulates the frequency spectrum used in wireless devices and all electronic devices must pass an FCC to assure they do not cause EMI.

The equivalent organization in Europe is the CEPT.

IP :

Internet Protocol (IP), the suite protocols that govern communications on the Internet.

IP Camera :

An ip camera delivers its signal over an IP network. It digitizes a frame or a stream of video, compresses it, and transmits it over the network. ip cameras often provide a browser interface that allows the user to operate and view video remotely. In addition, an IP Camera can be use in conjunction with a NVR to create a selecting a digital video recorder (dvr) system.

An IP Camera is a webcam, but contained entirely within the camera.

Lens :

A lens is the device which focuses the image on the CCD. Most lens allow the consumer to specify aperture and focal length.

Lux :

Lux is a standard unit of light measurement. It is used in specifications of security cameras to indicate how much light is necessary to operate the camera. The lower the lux level, the lower ambient light the camera can operate in.

Technically, one Lux is equal to one lumen per square meter. See [hyperphysics, phy-astr, gsu, edu/hbase/vision/areance, html](http://hyperphysics.phy-astr.gsu.edu/hbase/vision/areance.html) for a formal physics definition.

At a minimum, cameras used only in daylight or where good lighting is available, should have a rating of 2 Lux or more.

Cameras with a Lux rating of 0.2 Lux or less are considered low-light cameras.

It is not possible to get good color definition at low light levels, so low light cameras are either monochrome or use electronics to switch to monochrome under low light conditions.

Low light or night cameras are often infrared sensitive. These cameras work with ambient infrared light or are used in conjunction with an infrared illuminator.

Glossary

Multiplexer :

A multiplexer is a piece of video surveillance equipment with multiple video inputs and one video output. A multiplexer is used to take many security cameras and present them on one video monitor. A multiplexer typically has a number of buttons on the front panel to allow the user to select which one (or which combination of) security cameras to look at. Although the same function can be achieved with a DVR, the traditional multiplexer is often the simplest and most convenient for everyday use. There is no need to login to a system and operate a keyboard and mouse. Simply press the button and see what you want.

NTSC :

National Television System Committee (NTSC) is a video signal encoding format used in broadcasting television in the United States.

NVR :

A Network Video Recorder (NVR) provides similar functionality to a DVR, but also can take input from an ip camera. A NVR can be implemented entirely in software, in which case it takes in video streams only from IP Cameras via the Internet.

PAL :

Phase Alternating Line (PAL) is a video signal encoding format used in broadcasting television in Europe.

PTZ :

Pan, Tilt and Zoom (PTZ).

PTZ Camera :

A PTZ (Pan/Tilt/Zoom) camera is one which is movable on its horizontal (Pan), Vertical (Tilt), and focal length (Zoom) axis. Cameras are typically controlled remotely via a joystick or software program. PTZ cameras are typically only used in applications where personnel are actively monitoring video sources and require the ability to adjust the views in real time.

S/N :

The Signal to Noise ratio (S/N) is a measure of the quality of a signal. Measured in DB, the higher the value the better. For a security camera, a S/N ratio of 45 DB or better is good. A camera with AGC can increase the S/N ratio as needed depending on light conditions.

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