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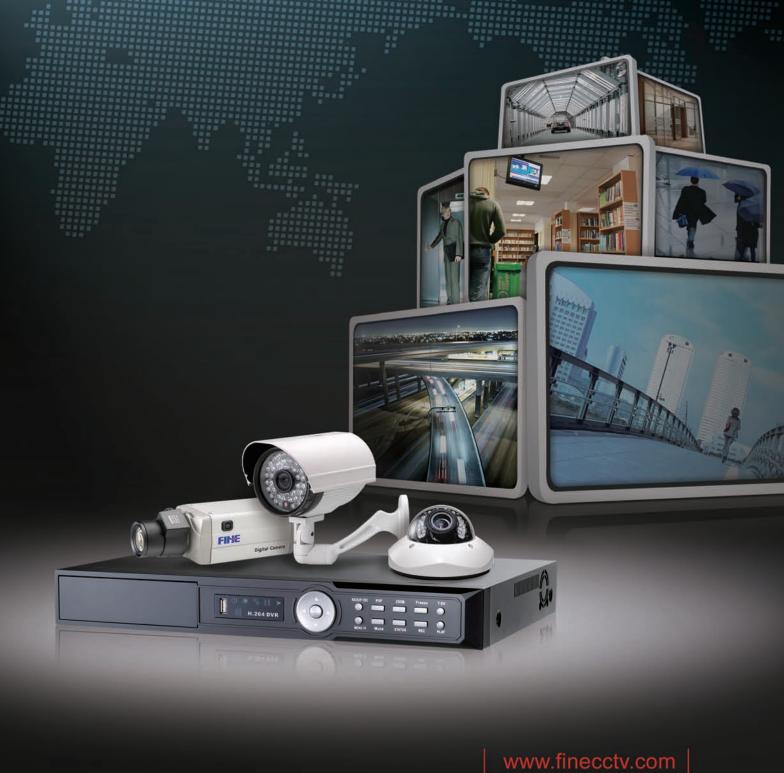
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CCTV Solutions & Network Management



The Total Security Solution

Founded in the year of 1976, Finest has been a reputable and very much devoted company in CCTV. Backed with vast experiences, in manufacturing, developing and designing the world's most sophisticated CCTV equipment makes its name come to fame and known for being one of the top suppliers of CCTV in the nationwide today.

Finest strategy in the market is to offer one stop solutions for all security and CCTV products. This is possible because it has completed range of products to suit every situation and any industry. With emerging needs of surveillance and monitoring solution today, Finest seeks out technology from all corners of the world and form a strategic alliance with technology-driven manufacturing firms of different product categories in CCTV such as the Fiber Optical Transceiver devices, Twisted Pair Transceiver devices, Digital Recording systems, and IP solutions to integrate with its professional expertise.

Finest strength lies in its ability to provide turnkey solution with cost effective that are partical for customized applications. Its premium grade of services and quality, supported by a team of professionalism makes the company stronger ever.



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STORCK SERIES

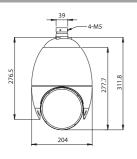
IR HIGH SPEED DOME **37X, 26X,18X OPTICAL ZOOM**



KEY FEATURES

- Unique Design, all in one Integrated Hi-Speed Dome
- Integrated with High Quality IR Leds, maximum distance 200M
- Powerful Mechanism Structure with shocking resistance
- 3-Level Lighting Protection
- IR Distance: 100M
- IR Distance with Laser: 200M
- IP65 Outdoor

MECHANICAL DIMENSION



Model	SP-PTIR737	SP-PTIR026	SP-PTIR018
Image Sensor	1/4" Exview HAD CCD	1/4" Sony Exview CCD	
TV System	795 (H) x 596 (V)	PAL: 752(H) x 582(V) ; 2:1 interlace NTSC: 768(H) x 494(V) ; 2:1 Interlace	
Optical Lens	37X optical Zoom, F= 3.5(wide) ~ 129(tele)mm	26X optical Zoom, F= 3.5(wide) ~ 91(tele)mm	18X optical Zoom, F= 4.1(wide) ~ 73.8(tele)mm
Horizontal Angle	41° ~ 1.5°	54.2° ~ 2.2°	4.8° ~ 2.8°
Digital Zoom	14X		2X
Horizontal Resolution	560 TV Lines	560 TV Lines	560 TV Lines
llumination	0.1 Lux	0.01 Lux	0.01 Lux
Minimum Illumination		0 Lux	
Day / Night		Day / Night / Auto	
S/N Ratio	More than 52dB	More than 50dB	More than 50dB
Shutter	1/50~1/100,000 sec.	1/1000 sec. (20 steps)	1/1000 sec. (20 steps)
Sain		-3-28dB 16teps	
/ideo Output	1V	p-P 75 ohm nefative polarity 2:1 interlac	ed
rivacy Zone		8 zones	
Vide Dynamic Range		On / Off	
xposure Mode	Auto / Brightness first	/ shutter first / Iris first / Manual, Gain / S	Shutter are adjustable
/ideo Affect	. Acc , Enginered mot	Art, B/W, Mirror, Frozen, Anti-Shaking	
Vhite Balance		Auto / Manual / ATW	
Synchronization	Internal synchron	Internal synchronization / power synchronization / external synchronization	
ack Light	internal dynamen	Open / closed/auto	i syrioriizadori
Pan Range	360° continuous		
ilt Range	186° (-93°-0°-93°) and 90°+ auto rotation can be set		
an Speed	0.01°/S-180°/S		
ilt Speed		0.01°/S-180°/S	
resets Speed	0.01 /S-180 /S 220°/S		
aud Rate	1200 / 2400 / 4800 / 9600		
rotocols	AD, Pelco-D, Pelco-P, Philips, Vicon, Samsung, DS etc		
Communication Port	AD, Pelco-D, Pelco-P, Philips, Vicon, Samsung, DS etc RS-485 1200m		
resets	128 presets		
ouring	8 tours, 24 presets per tour, speed and time can be adjusted separately		
rack	0 tours, 24 pres		Sicu Separatery
Swing	2 Tracks, 40 seconds per track		
Combination Motion	Horizontal & Vertical rotation, between two presets, 4 presets back & forth, rotate at any speed		
	2 combinations, presets, touring, track are at any Combination, speed, time can be separately Call the resets according to week, touring, track, combination motion, color to B/W, B/W to color, tracking,		
iming	g	4 period per day	to, to colon, coloning,
Stop & stay	Stay 1"99 mins, calling presets, touring, trace, combination motions & rotation		
Power on	Calling the motions before	power off, presets, touring, combination	motions, rotation, tracking
Display	Time, date, tit	le, coordinates, temperature, booting inf	o, motion info
itle	One main title,	, 1-16 presets title, 8 Chinese or 16 Engl	ish characters
larm	4 input can be extended to 8 or 16, two group output, one is N.C., one is N.C., contact capacitance is 0.5 A/24V		
After Alarm recovery	0~99 minutes		
Motion Detection		Respond to the presets	
Glass		Double layer optic glass	
Shells		ROHS aluminum	
R Light	Automatic and stepless light regulating lights make 3 level illumination; near, middle & far.		
		than 30W, effective distance is more than	
Module Structure		ength structure of integrated metal with 4	
nstallation	Wall mounting, pendan	it mounting, various covers, brackets & p	ower case are options
nstallation ports		40 mn through hole or G11/2 thread	
Ports protection	3 Level surge pro	otection for all the ports, can withstand so	ome high voltage
Power consumption		AC24V±10% / 0.3~2A	
Veight		11 kgs	
Norking Temperature		-50°C to 50°C	
Norking Humidity		IP 65 for outdoor series	

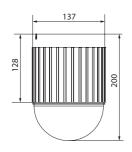
HIGH SPEED DOME, D/N, 700TVL, WIDE DYNAMIC

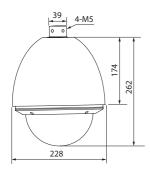


KEY FEATURES

- More than 700TV Lines of Horizontal Resolution, with Wide Dynamic Range
- Full equipped with high sensitivity 1/4" Sony Super HAD CCD
- 8 privacy masking zones
- Day & Night +ICR for true day & night surveillance
- 4 alarm inputs, 2 outputs
- 2 pattern tours each one with up to 80 seconds of record
- 8 tours, 24 presets / tour, speed and time selectable
- 128 presets with editable time
- Baud Rate: 2400 / 4800 / 9600 bps
- Multiple protocols support
- IP66 Rated
- Multiple Language

MECHANICAL DIMENSION

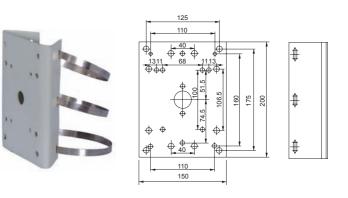




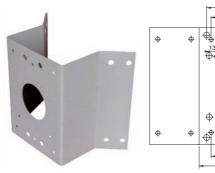
Model	SP-1036W	
Image Sensor	1/4" SONY Super HAD CCD	
Effective Pixels	PAL: 752(H) x 582(V) 2:1 interlace NTSC: 768(H) x 494(V) 2:1 interlace	
Horizontal Resolution	700 TV Lines	
Synchronization	Internal / External V-lock	
Optical Lens	36X Optical Zoom, f=3.4mm(wide) – 122.4mm (tele), F1.6 -4.5	
Digital Zoom	12X (up to 432X with optical zoom)	
Viewing Angle	57.8°(wide end) to 1.7° (tele end)	
Day & Night	Yes, day & night with Mechanical IR CUT Filter	
Video Output	1.0Vp-p (sync negative) 75 ohm sync negative, interlaced	
Gain Control	Auto / manual (-3 to 28dB, 16 steps)	
Minimum Illumination	0.1 Lux (Color) 0 Lux: B/W	
S/N ratio	≥ 50dB	
White Balance	Auto, ATW, Indoor, Outdoor, One-push, Manual WB	
Wide Dynamic	On / OFF	
BLC	On / OFF / Auto	
Privacy Masking	8 zones	
AE Control	Auto / Manual / ATW	
Pan	360° continuous	
Tilt	186° (-93°-0°-93°) Or 90°+ auto flip selectable ELC	
Pan Speed	0.05°/S-280°/S	
Tilt Speed	0.05° / S-200° / S	
Preset Speed	300°/S	
Baud Rate	1200 / 2400 / 4800 / 9600	
Protocols	AD, PELCO-D, PELCO-P, PHILIPS, VICON, SAMSUNG, DS etc	
Communication	RS-485 (1200 meters)	
Swing	3601 continuous clockwise or counter-clockwise; pan+tilt, scan between 2 presets or 4 presets	
Group Action	2 groups include preset, tour, pattern	
Timing Action	Timing action according to the day of week; preset, tour, pattern, group, day/night, day selectable, 4 times every day	
Park Action	Park time 1-99 minutes, preset, tour, pattern, group, swing selectable	
Power on Action	Preset, tour, pattern, group, swing, recover	
Display	Time, date, title, coordinate, temperature	
Title	1 main title, -1-16 presets title, 16 characters/title	
Fan	Auto / Manual	
Alarm Resume	0-99 minutes	
Motion Detect	Preset Response	
Cover	Clear (standard)	
Structure	Metal integrative or separate fast installation structure	
Mount	Wall mount, pendant mount, in-ceiling, pole mount, power case	
Temperature	Indoor: -5°C~ +60°C	
	Outdoor: -50°C ~ +60°C	
Power Supply	AC24V±10%, 0.25A 6W(outdoor heat consumption 24V/1A/24W)	
Weight	Indoor 2.2 kgs	
Dimension	Outdoor 4.3 kgs (without bracket) 230(Ø) x 288.5 mm	

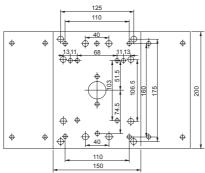
ST-D05 Pendant Mount Bracket

ST-Z01 Pole Bracket

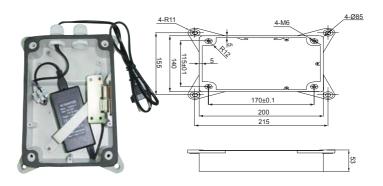


ST-TO1 Corner Bracket



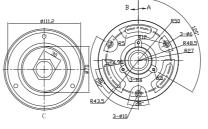


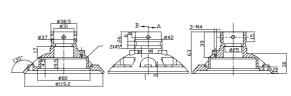
ST-HV Power Case



ST-ADO1 Mount Adapter







12X MINI WDR PTZ CAMERA

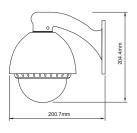


KEY FEATURES

■ Pan & Tilt Speed Up to 360° per second

- Support Auto-Flip, tile degree is up to 180°
- 360 Degree Rotation, 127 Preset Positions
- 8 Groups for present program
- 8 set of swing action
- Support 4 Pattern
- 8 Privacy Zones • 1/4" Interline Transfer CCD
- F1.67~1.88, f=3.94~46.05mm, auto IRIS Lens
- 12X Optical zoom, 16x digital zoom, total 192X zoom
- Support Day / Night function
- IR Cut Filter Removable
- AGC, ALC, AES, BLC, AWB, detection zones
- Built in Fan and Heater (SP-1256HW)
- 4 alarm input (SP-1256HW)

MECHANICAL DIMENSION





TECHNICAL SPECIFICATIONS

Model	SP-1256H	SP-1256CM	SP-1256HW
Pick Up Device	1/4"Interline Transfer CCD		
Effective Pixels	N: 7	768(H)× 494(V)380K ; P: 752(H)× 582(V)440	K
S/N		52 dB (AGC Off)	
Horizontal Resolution		600 TV Line(Color),680 TV Line(B/W)	
Lens		F1.67~1.88 ,f=3.94~46.05mm	
Zoom	12x C	Optical zoom, 16x Digital Zoom, total 192x zo	om
White Balance		ATW or AWB R / B Gain Level adjustable	
IRIS		Auto / Manual	
AGC		Normal / High / Off	
BLC Function		Low / Middle / High / Off	
ICR Function	YES		
Illumination	0.2 Lux(Color) / 0.02 Lux (B/W), 50 IRE		
Shutter Speed	1/60~1/120000 sec(N); 1/50 ~ 1/120000 sec(P)		
Flicker less	Low / Middle / High / Off		
Focus	Auto / Manual / SemiAuto		
Pan	360 (Endless)		
Tilt	180 (Auto-Flip), 95 (Normal)		
Preset	127 Preset ; Auto Speed:300 /sec , manual: 0.05~300 sec		
Pattern	4 Pattern, 1200 commands(about 5 min)		
Swing	8 Swing / Speed: 1~180 /sec		
Group	8 Group (20 action entities per Group)		
Alarm	-n/a-	-n/a-	Yes
Fan & Heater	-n/a-	-n/a-	Yes
Operation Temperature	0 °C ~ 40 °C	0 °C ~ 40 °C	-30 °C ~ 50 °C
Power Source	DC 12V		

Specifications are subjected to change without prior notice.



VD-B1048 Wall Mount Bracket



VD-B1048C Ceiling Straight Bracket



KB-1048S PTZ Keyboard



KB-1054S 3D PTZ Keyboard

MINI INDOOR DOME VARI-FOCAL LENS

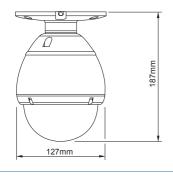


KEY FEATURES

■ 1/3" Colour SONY Super HAD CCD DSP Camera

- 2.8-11mm, 3.7-12mm, 9-22 mm Auto IRIS Lens
- 600 TV Lines; 0.001 Lux
- IR Sensitive (Day & Night)
- Auto White Balance (AWB)
- Auto Gain Control (AGC)
- Back-Light Compensation (BLC)
- 360 Degree Rotation, 32 Preset Positions
- Pan Speed Up to 30°/S, Tilt Speed Up To 30°/S
- 6 Auto Cruising Track

MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

Model	SP-PV600-9 (9-22mm)	SP-PV600-28 (2.8-11mm)	SP-PV600-37 (3.7-12mm)
Scanning System	1:2 Interlace		
Pick Up Device		1/3" SONY Super HAD CCD	
Effective Pixels	NTSC: 510(H) x 492(V) / PAL:500(H) x 582(V)		
S/N	60dB (r:	=1, AGC OFF, Aperture=OFF, Luminance	e signal)
Horizontal Resolution		600 TV Lines	
Lens	F1.6 f= 9 - 22 mm / Auto IRIS	F1.4 f= 2.8-11 mm / Auto IRIS	F1.6 f= 3.7-12mm / Auto IRIS
Zoom		Manual	
White Balance		ATW	
HDR WDR		Yes	
ALC		Auto	
AGC		Auto Gain Control (+18dB Max.)	
BLC Function		Auto	
ICR Function	yes		
Illumination	0.001 Lux (AGC ON)		
Video Signal Output	1.0 Vp-p / 75Ω		
Gamma Correction	0.45 / 1		
Electronic Shutter	AES: 1/60(1/50) ~ 1/120,000 sec.		
External Control	RS-485		
Pan		Speed 0.5~30 °/s	
Tilt	Speed 0.5~30 °/s		
Preset	32 Preset Positions (Max)		
Auto Cruise	6 Auto Cruising Tracks (Max)		
Operating Temperature	-30°C~50°C		
Operating Humidity		Within 85% RH	
Power Source		DC12V +/- 1.0V, 6 W (max)	
Dimensions		Ø127 x 187(H) mm	

[•] Specifications are subjected to change without prior notice.



VD-B1048 Wall Mount Bracket



VD-B1048C Ceiling Straight Bracket



KB-1048S PTZ Keyboard



KB-1054S 3D PTZ Keyboard

MINI OUTDOOR PAN/ **TILT VARIFOCAL DOME**

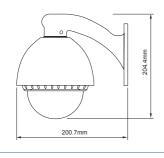


KEY FEATURES

■ 1/3" CCD Image Sensor (Hi-Resolution)

- 600 TV Lines; 0.001 Lux
- IR Sensitive (Day & Night)
- AWB / AGC / BLC
- 360 Degree Rotation, 32 Preset Positions
- Pan Speed Up to 30°/S, Tilt Speed Up To 30°/S
- 6 Auto Cruising Track, RS-485 Protocols Communication

MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

Model	SP-PVD600W-37	SP-PVD600W-9	SP-PVD600WD-37	SP-PVD600WD-9
SYNC System	Internal			
Scanning System		1:2 Interlace		
Pick Up Device		1/3" CCD Image	e Sensor (Hi-Res)	
Effective Pixels	PAL:752(H) x 582(V)			
S/N		56Db (r=1, AGC OFF, Aper	ture=OFF, Luminance signal)	
Horizontal Resolution		600 T	V Lines	
Lens	3.7-12mm	9-22mm	3.7-12mm	9-22mm
Zoom			X	
White Balance		A	TW	
HDR (Digital WDR)	-n/a-	-n/a-	Yes	Yes
WDR	-n/a-	-n/a-	Yes	Yes
ALC	Auto			
AGC	Auto Gain Control (+18dB Max.)			
BLC Function	Auto			
Illumination	0.001 Lux (AGC ON)			
Video Signal Output	1.0 Vp-p / 75Ω			
GAMMA Correction	0.45 / 1			
Electronic Shutter	AES: 1/60(1/50) ~ 1/120,000 sec.			
External Control	RS-485			
Protocol	Pelco D/P			
Pan	Speed 0.5~30 °/s			
Tilt	Speed 0.5~30 °/s			
Preset	32 Preset Positions (Max)			
Auto Cruise	6 Auto Cruising Tracks (Max)			
Operation Temperature	-10°c~50°c			
Operation Humidity	Within 85% RH			
Power Source		DC12V +/- 1.	0V , 6 W (max)	

Specifications are subjected to change without prior notice.



VD-B1048 Wall Mount Bracket



VD-B1048C Ceiling Straight Bracket



KB-1048S PTZ Keyboard



KB-1054S 3D PTZ Keyboard

WIDE DYNAMIC CAMERA (EFFIO-WDR)



KEY FEATURES

■ 1/3" Hyper Wide Dynamic Infrared Camera (Effio WDR)

- Color: 680TVL, B/W:700TVL
- Color: 0.03 Lux @F1.0 , B/W: 0.01 Lux@F1.0, Sense up:0.0001Lux@F1.0
- Multi-Language OSD Control / RS485 Control
- RS485 Interface OSD Control by Pelco -D, Pelco -P
- Powerful 510X WDR (54dB)
- Ideal for Backlight Environments
- 2D/3D Noise Reduction & Sense Up (512x) Function
- Shutter Mode (Schedule/ Day & Night)
- Face Detection of up to 4 faces
- E-Zoom Function (1~256x)
- Advanced Motion Detection Function
- Polygonal Mosaic Privacy Mask
- Freeze / Timer Clock

REAR PANEL



MECHANICAL DIMENSION





Model	CT-WD1680	CT-WD1680-ICR
Image Sensor	1/3" Sony 960H Double Sp	eed (double density)CCD
Number of Total Pixels	1024(H)×596(V) PAL 1028(H)×508(V) NTSC	1024(H)×596(V) PAL 1028(H)×508(V) NTSC
Horizontal Resolution	Color:680TVL, B/W:700TVL	
DSP	Sony Effi	o WDR
Minimum Illumination	Color:0.03Lux@F1.0, B/W:0.01Lux@F1.0,0.005 Lux	@F1.0 (With ICR), Sense up: 0.0001 Lux @F1.0
Wide Dynamic Range	510x Normal Ca	amera (54dB)
Video Output	1.0Vp-p Composite, 7	75Ω , S-Video (Y/C)
Video Connector	BN	C
Signal To Noise Ratio	More than 52dB (AG	C Off, Weight On)
Gamma Correction	0.4	
Mechanical IR Cut Filter (ICR)	-n/a-	Automatically Switches (Switching Lux Level can b adjusted)
IR LEDS	-n/a-	Compatible with Infrared Illuminator
Menu	OSD C	ontrol
Title	Title (Loc	
Synchronizing System	Inter	nal
Digital Day&Night Mode	Color / B&W / Auto	/ EXT / Schedule
Electronic Shutter	Auto (1/50(60) ~1/100,000 sec.) / Schedule or Day & Night / : 1/50(60), FL 1/120(100) , 1/200, 1/250, 1/350, 1/500, 1/750, 1/1,000 , 1/1,500, 1/2,000, 1/3,000, 1/4,000 , 1/10,000, 1/30,000, 1/60,000, 1/100,000 sec.	
Automatic Gain Control	Auto /Manual / Off	
Back Light Compensation	WDR / BLC / OFF	
White Balance	ATW / AWB/ AWC (Push Lock) / Manual / Outdoor (1800°K ~ 10500°K) / Indoor (4500°K~8500°K)	
Flickerless	On/Off	
Dynamic Noise Reduction	3D / 2D	
Sensitivity up	Auto (Limit x2 ~x 512) / Off	
Face Detection	4 Face Detection	
Language	ENGLISH / TRADITIONAL CHINESE / SIMPLIFIED CHINESE	
E-zoom	x1 ~x256 , Pan/ Tilt Adjustable	
Motion Detection	ON / OFF (24x16	Zones, Alarm)
Privacy	ON / OFF (16 Zones Program	nmable, Polygonal Mosaic)
Timer Clock	Year/Month/ Date, Hour/Minute/Second	
Camera Control Interface	RS485 Interface OSD Con	trol by Pelco-D, Pelco-P
Automatic IRIS;Connector	Video / DC ; D	4 IRIS Jack
Lens Mount	C/CS Mount (v	vith adaptor)
Water Resistance	-n/a	1-
Max. Breaking Strength	-n/a	1-
Power Supply	12Vdc/24Vac (10.8	3~39Vdc/24Vac)
Power Consumption	3.0\	N
Operating Temperature	-10°C~	50°C
Storage Temperature	-20°C~	60°C
Operating Humidity	Maximum:	RH80%
Storage Humidity	RH90	0%
Net weight	350	g
Dimension	68(W) x 51(H)	x 120(L)mm

DIGITAL WIDE DYNAMIC CAMERA (EFFIO-E)

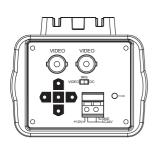


KEY FEATURES

■ 1/3" Digital Wide Dynamic Color Camera (Sony Effio-E)

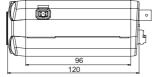
- Color: 610TVL, B/W:630TVL
- Color: 0.05Lux@F1.0, B/W:0.03Lux@F1.0, 0.01Lux @F1.0 (with ICR)
- Multi-Language OSD Control
- ATR Digital Powerful 128X WDR (52dB)
- Anti-Headlight (HLC)
- 2D Noise Reduction
- High Contrast Images
- Ideal for Backlight Environments
- Mosaic Privacy Mask
- Advanced Motion Detection Function
- Picture Quality Adjustable (Contrast/Sharpness/Hue/Gain)

REAR PANEL



MECHANICAL DIMENSION





	-GILICATIONS	
Model	CT-1480	CT-1480-ICR
Image Sensor	1/3" Sony 760H	Super HAD CCD
Number of Total Pixels	795(H)×596(V) PAL 811(H)×508(V) NTSC	795(H)×596(V) PAL 811(H)×508(V) NTSC
Horizontal Resolution	Color:610TVL	, B/W:630TVL
DSP	Sony I	Effio E
Minimum Illumination	Color:0.05Lux@F1.0, B/W:0.03Lux	@F1.0, 0.01 Lux @F1.0 (With ICR)
Wide Dynamic Range	128x Normal C	Camera (52dB)
Video Output	1.0Vp-p Composite,	75Ω , S-Video (Y/C)
Video Connector	BN	NC .
Signal To Noise Ratio	More than 52dB (Al	GC Off, Weight On)
Gamma Correction	0.4	45
Mechanical IR Cut Filter (ICR)	-n/a-	Automatically Switches (Switching Lux Level can be adjusted)
IR LEDS	-n/a-	Compatible with Infrared Illuminator
Menu	OSD (Control
Title	Title (Lo	ocation)
Synchronizing System	Inte	rnal
Digital Day&Night Mode	Color / B&W / Auto	
Electronic Shutter	AUTO (1/50(60)~1/100,000sec.) / MANUAL: 1/50(60), FL 1/120(100), 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000sec	
Automatic Gain Control	Auto (4 Steps)	
White Balance	ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK	
Back Light Compensation	WDR / BLC/Off	
Flickerless	On/Off	
Dynamic Noise Reduction	2D	
Sensitivity up	-n/a-	
Face Detection	-n/a-	
Language	ENGLISH / JAPANESE / GERMAN / FRENCH / RUSSIAN / PORTUGUESE / SPANISH / SIMPLIFIED CHINESE	
E-zoom	-n/a-	
Motion Detection	ON / OFF (24x1	6 Zones, Alarm)
Privacy	ON / OFF (16 Zones Programmable, Polygonal Mosaic)	
Timer Clock	-n/a-	
Camera Control Interface	-n/a-	
Automatic IRIS ; Connector	Video / DC ;	
Lens Mount	C/CS Mount ((with adaptor)
Water Resistance	-n/	
Max. Breaking Strength	-n/	·
Power Supply	12Vdc/24Vac (10	· · · · · · · · · · · · · · · · · · ·
Operating Temperature	-10°C	
Storage Temperature		~60°C
Operating Humidity	Maximum	
Storage Humidity	RHS	
Net weight	350 g	
Dimension	68(W) x 51(H	 x 120(L)mm Specifications are subjected to change without prior no

[·] Specifications are subjected to change without prior notice.

DIGITAL WD BOX CAMERA SONY EFFIO-E

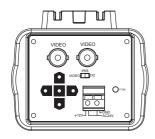


KEY FEATURES

■ 1/3" Digital Wide Dynamic Color Camera (Sony Effio-E)

- Color:680TVL, B/W:700TVL
- Color: 0.03Lux@F1.0, B/W:0.01Lux@F1.0, 0.005Lux @F1.0 (with ICR)
- Mechanical Focus Adjustment
- Multi-Language OSD Control
- ATR Digital Powerful 128X WDR (52dB)
- Anti-Headlight (HLC)
- 2D Noise Reduction
- High Contrast Images
- Ideal for Backlight Environments
- Mosaic Privacy Mask
- Advanced Motion Detection Function
- Picture Quality Adjustable (Contrast/Sharpness/Hue/Gain)

REAR PANEL



MECHANICAL DIMENSION





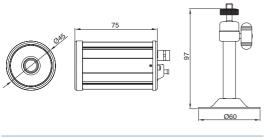
Model	CT-1880DR	CT-1880DR-ICR	
Image Sensor	1/3" Sony 960H Exview CCD		
Number of Total Pixels	1024(H)×596(V) PAL 1028(H)×508(V) NTSC	1024(H)×596(V) PAL 1028(H)×508(V) NTSC	
Horizontal Resolution	Color:680TVL	, B/W:700TVL	
DSP	Sony B	Effio-E	
Minimum Illumination	Color:0.03Lux@F1.0, B/W:0.01Lux(@F1.0,0.005 Lux @F1.0 (With ICR)	
Wide Dynamic Range	ATR Digital WD (ATR:Adaptive Tone-curve F	Reproduction) ; 128x Normal Camera (52dB)	
Video Output	1.0Vp-p Con	nposite, 75Ω	
Video Connector	BN	IC	
Signal To Noise Ratio	More than 52dB (Al	GC Off, Weight On)	
Gamma Correction	0.	45	
Mechanical IR Cut Filter (ICR)	-n/a-	Automatically Switches (Switching Lux Level can be adjusted)	
IR LEDS	-n/a-	Compatible with Infrared Illuminator	
Menu	OSD (Control	
Title	Title (Lo	ocation)	
Synchronizing System	Inte	rnal	
Digital Day&Night Mode	Color / B&W	/ Auto / EXT	
Electronic Shutter	AUTO (1/50(60)~1/100,000sec.) / MANUAL: 1/50(60), FL 1/120(100), 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000sec.		
Automatic Gain Control	Auto (4 steps)		
White Balance	ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK		
Back Light Compensation	HLC / BLC / OFF		
Flickerless	On/Off		
Dynamic Noise Reduction	2D		
Sensitivity up	-n/a-		
Face Detection	-n/		
Language	ENGLISH / JAPANESE / GERMAN / FRENCH / RUSSIAN / PORTUGUESE / SPANISH / SIMPLIFIED CHINES		
E-zoom	-n/	·	
Motion Detection	ON / OFF (24x16 Zones, Alarm)		
Privacy	ON / OFF (8 Zones Program		
Timer Clock	-n/		
Camera Control Interface Automatic IRIS;	-n/	a-	
Connector	Video / DC ;	D4 IRIS Jack	
Lens Mount	C/CS Mount (with adaptor)	
Water Resistance	-n/	a-	
Max. Breaking Strength	-n/a-		
Power Supply	12Vdc/24Vac (10.8~39Vdc/24Vac)		
Power Consumption	3.0W		
Operating Temperature	-10°C -		
Storage Temperature	-20°C ~ 60°C		
Operating Humidity	Maximum		
Storage Humidity	RHS		
Net weight	350	•	
Dimension	68(W) x 51(H) x 120(L)mm	

FULL HD BULLET CAMERA



- 2.1Mpx.,1/3" PANASONIC CMOS 1080p (1920X1080) @30FPS (Standard)
- HD-SDI(BNC)/Service Video Output
- Min. illumination of 1.0Lux
- F=3.6/6mm Board lens
- True Day & Night with ICR Mechanism
 WDR (Wide Dynamic Range)
- DSS (Digital Slow Shutter)
- AGC.BLC, 3DNR
- Convenient OSD
- DC12V

MECHANICAL DIMENSION



Model	HD-B450M
Image Device	2.1 Mega Pixel, 1/3" Panasonic Color CMOS
DEffective Pixels	1944(H) x 1092(V)
Unit cell size	2.75um(H) x 2.75um(V)
Video Output	SDI: 1080p 30FPS/720P 60fps TV Out: CVBS NTSC/PAL
Min. Illuminatiom	1.0Lux
S/N Ratio	More than 50dB
Shutter Speed	Auto/Manual selectable 1/30(25), 1/60(50), 1/120, 1/250, 1/700 1/1K, 1/1.6K, 1/2.5K, 1/5K, 1/7K, 1/10K, 1/30K
Lens	F=3.6mm/6mm Board Lens
White Balance	AUTO/PUSH LOCK/MANUAL
AGC	0~23 dB
BLC	On/Off (by OSD)
WDR	Supported
3DNR	Supported
DSS	Supported
Motion Detection	Supported
Mirror Mode	Supported (H/V/HV)
Day & Night	AUTO/COLOR/BW
OSD	Built-in with Joystick
Operating Temperature	-10°C ~ +50°C
Storage Temperature	-20°C ~ +70°C
Power Consumption	DC12VMax: 160mA
Dimension	45 x 75 mm
Weight	Approx: 145g

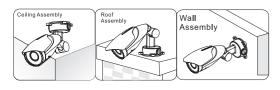
[•] Specifications are subjected to change without prior notice.

FULL HD BULLET OUTDOOR IR CAMERA



- 2.1MP CMOS Image Sensors
- Full HD1080p Digital Images
- HD-SDI Output Interface
- Broadcast Style Transmission over
- Coaxial Cable (No Networking Required)
- Uncompressed Images (Zero Latency)
- 20 IR LEDs (2 Big, 18 5Ø, 50m Illumination*)
- Mechanical IR Cut-Filter
- Digital Noise Reduction
- O.S.D. Menu
- Selectable Gain Control
- Selectable White Balance
- Selectable Back Light Compensation
- Privacy Function
- RS-485 Communication
- Analog Video Output
- NTSC/PAL Selectable
- No Bandwidth Issues
- Weatherproof (IP66)
- DC 12V ±10% / AC24V ±10%

3-AXIS DESIGN

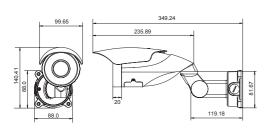


TECHNICAL SPECIFICATIONS

Model	HD-B6080
Image Sensor	1/2.7" 2.1MP CMOS Sensor
Scanning System	Progressive Scan
Resolution	2.1 Megapixel 1080p, 1920 x 1080 (30FPS)
Sensitivity (F1.2)	1.0 Lux (0 Lux with IR ON)
Lens	2.8-11mm
Effective Pixels (H x V)	1944(H) x 1092(V)
S/N Ratio	>50dB
Synchronisation	Internal
Video Output (BNC Type)	HD-SDI: 1.485G/s (SMPTE292M,) 1.0Vp-p ~ 75Ω
Day / Night	Auto / Colour / B&W / EXT (ICR)
3 DNR	On / Off
O.S.D.	YES, Built-in
Defog	On /Off (Fog or Rain)
Gain Control	OFF / LOW / MID / HIGH
White Balance	ATW / AWCSET /INDOOR / OUTDOOR / MANUAL
Back Light Compensation	OFF / BLC / HSBLC
Shutter	1/30 / 1/60(1/50) / FLK / 1/2501/50000
IR LEDs & Illumination Distance	20 IR LEDs, Approximately 50 Metres in Ideal Conditions (850nm)
Privacy Function	8
IP Rating	IP66
Operating Conditions	Temperature: -10°C ~ +45°C, Humidity: 95% RH
Power Supply	DC 12V ±10% /AC24V
Power Consumption	IR OFF 400mA (Max) / IR ON 800mA (Max)
Dimensions (W x H x D)	340.5mm x 100mm x 156mm
Weight	About 850 ± 10g

· Specifications are subjected to change without prior notice.

MECHANICAL DIMENSION

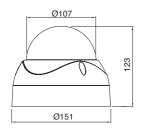


FULL HD VANDAL DOME CAMERA



- 2.1MP CMOS Image Sensors
- Full HD1080p Digital Images
- HD-SDI Output Interface
- Broadcast Style Transmission over Coaxial Cable (No Networking Required)
- Uncompressed Images (Zero Latency)
- 30 IR LEDs (30M Illumination*)
- Mechanical IR Cut-Filter
- Digital Noise Reduction
- O.S.D. Menu
- Selectable Gain Control
- Selectable White Balance
- Selectable Back Light Compensation
- Privacy Function
- RS-485 Communication
- Analog Video Output
- Weatherproof (IP66)
- DC 12V ±10% / AC24V ±10%

MECHANICAL DIMENSION



ACCESSORIES

KM-WM110 Wall Mount Bracket



TECHNICAL SPECIFICATIONS

Model	HD-DV621K
Image Sensor	2.1 Mega Pixel, 1/3" Panasonic CMOS
Video Output mode	HD-SDI: 1080p@30fps, 1080p@25fps 720p@60fps, 720p@50fps TV Out: NTSC/PAL Selectable
Effective Pixels	1944(H) x 1092(V)
Unit cell size	2.75(H) x 2.75(V)
S/N Ratio	More than 50dB
Min illumination	0 Lux (LED ON)
Video Output (BNC Type)	HD-SDI: 1.485G/s (SMPTE292M) 1.0Vp-p~75Ω
Lens	F=3.6-16mm (F1.2) Mega Pixel Lens
Lens Control	DC IRIS
Min. Exposure time	1 / 60,000 sec
Shutter speed	Auto / Manual Selectable
WDR/BLC	OFF/WDR/BLC Selectable
AGC	0-23dB
3 DNR	OFF / LOW / MIDDLW / HIGH
O.S.D.	YES, Built-in
IR LED	850nm, 30 ea, up to 20 M
IP Rating	IP66 (Weather Proof)
White Balance	AUTO / AUTOext / PUSH / MANUAL
Digital Zoom Ratio	1x – 20x
Digital Slow Shutter	Off, x2, x3, x4
Privacy Masking	Zone 24 ea, On / Off
Motion Detection	On / Off
Day & Night	True Day & Night With ICR Mechanism
Operating Conditions	-10°C~ +50°C, Humidity: 80% RH
Storage Temperature	-20°C ~ +70°C
Humidity	Operating: Less than 80% / Storage: Less than 95%
Power Supply	DC 12V ±10% Max.720mA AC24V ±10% Max.18W
Dimensions (W x H x D)	Bubble (Ø107), Ø151 x 123
Weight	Approx: 950g

· Specifications are subjected to change without prior notice.

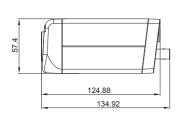
FULL HD BOX CAMERA



- HD-SDI 30FPS@1080p Box Camera
- 1/2.8" 3 Megapixel Sony Progressive Color Sensor
 Supports CS/C Mount
- Noise Reduction for Enhanced Image
- Quality Even in Low Light Conditions

MECHANICAL DIMENSION





TECHNICAL SPECIFICATIONS

Model	HD-380CM
Sensor	SONY 3 Megapixel Exmor CMOS
DSP	SONY HIGH QUALITY DIGITAL SIGNAL PROCESSING
Image Size	1/2.8 format interline CMOS sensor R, G, B, color complementary mosaic filter
Image System	NTSC / PAL
Scanning System	HD-SDI 1080p/60fps, 1080p/30fps, 1080i/60fps, 1080p/50fps, 1080p/25fps, 1080i/50fps, 720p/60fps, 720p/50fps
Picture Elements	3.1M
SYNC System	INT
Lens Mount	CS/C Mount
Resolution	1080p / 1080i / 720p
Minimum Illumination	0.1 LUX @ F1.4
S/N Ratio	>48 dB
Video Output	HD-SDI (BNC Type)
Gamma Correction	0.45 (Default)
OSD	Yes
Exposure Control	Auto / Manual / AIS
AES	Auto Luminance Control 1/60 (1/50) ~ 1/100000 sec
Auto IRIS Control	DC Drive Separate Output
Auto Gain Control	0~36dB
White Balance	ATW / AWB / PTL / User / Scene Modes
Auto White Balance Range	ATW pull-in Color Temperature Range 3200 - 9500K
Backlight Compensation	Spot / Histogram / Center
Day & Night	with automatic ICR module
WDR	Yes, digital WDR
Noise Reduction	2D
Back Focus Adjust	CS Mount 12mm, +/- 1.0mm, Adjustable by Screw
Operation Temperature	-10°C ~ 50°C
Storage Temperature	-20°C ~ 70°C
Power Source	DC12V / 0.25A
Power Consumption	3 W Max
Dimension	126mm(L) x 67mm(W) x 60mm (H)
Weight	350g

Specifications are subjected to change without prior notice.

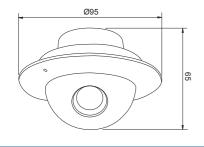
WIDE ANGLE DOME



■ 1/4" Sony Color CCD

- 450TVL or 600 TVL with OSD
- 1.6mm Fixed Lens
- 130° Super Wide Angle

MECHANICAL DIMENSION



Model	DC-FD450	DC-FD600
Pick-up Device	1/4" Sony (Color CCD
Effective Pixels (H x V)	500(H) x 552(V)	752(H) x 582(V)
Horizontal Resolution	450 TV Lines	600 TV Lines
Minimum Illumination	0.5 Lux	0.05 Lux F1.2
S/N Ratio	More than 52db	More than 50db
D-WDR	-n/a-	OFF / ON (0-63 level adjustable)
2D-DNR	-n/a-	2: ON/OFF
Parking Line	-n/a-	Support
Day & Night	Auto / Color / B/W / EXT	Auto / Color / B/W / EXT
Mirror	ON / OFF	ON / OFF
Motion Detectionm	ON / OFF (4 areas)	ON / OFF (4 areas)
Privacy Mask	ON / OFF (8 Zones)	ON / OFF (8 Zones)
AGC	OFF / Low / Middle / High	OFF / Low / Middle / High
BLC	ON / OFF	ON / OFF
Scanning System	2:1 Interlace	
Synchronous System	Internal	
Electronic Shutter	NTSC: 1/60s ~ 1/100,000s, PAL: 1/50s ~ 1/100,000s	
Gama Characteristic	0.45	
Working Distance	20M	
Video Output	1.0 Vp-p Composite Video, 75Ω	
Lens	1.6mm	ı Lens
View Angle	130° Super wide Angle	
Power Supply	12V	DC
Power Consumption	IR on: 330mA	, IR off: 90mA
Application	Elevator, building, C	Corridor, Indoor, etc.
Case Color	Wh	nite
Operating Environment	-20°C ~ +60°C	C, RH95% Max
Dimension (L x W x H)	F: 95mm x	H: 65mm
Weight	350g	

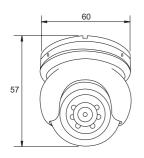
[•] Specifications are subjected to change without prior notice.

MINIATURE IR DOME CAMERA



- 1/3" Sony Super HAD CCD
- 550 TVL Horizontal Resolution
- 6 Pcs Ø5 IR Leds
- IR Distance 6-8M
- Under 5 Lux Auto Switched IR LEDs by CDS
- Electronics Day /Night

MECHANICAL DIMENSION



Model	CF-DM828	CF-DM836
Pick-up Device	1/3" Sony Super HAD CCD	
Effective Pixels (H×V)	NTSC: 768 x 494 PAL: 752 x 582	
Sensing Area	4.9 x 3	3.7mm
Horizontal Resolution	550 TV	V Lines
Minimum Illumination	0.1 Lux, 0	Lux at IR on
S/N Ratio	More th	an 48dB
Scanning System	2:1 Int	terlace
Synchronization	Inte	emal
Electronic Shutter	NTSC: 1/60s ~ 1/100,000s, PAL: 1/50s ~ 1/100,000s	
IR Distance	6~8 M	
IR Leds	6 pcs 850nm Infrared LED	
IR status	IR on: under 5 Lux, by CDS Auto Control	
Gamma Characteristic	0.45	
Auto Gain Control	Auto	
White Balance	Auto	
Video Output	1.0 Vp-p Composite Video, 75Ω	
Lens / Angle field of View	3.6mm Board Lens Angle: 92 degree	2.5mm Board Lens Angle: 120 degree
Power Supply	12V DC	
Power Consumption	IR on: 250mA, IR off: 90mA	
Operating Environment	-10°C ~ +50°C, RH95% Max	
Dimension (L x W x H)	Ø60 x 57(H) mm	
Weight	NW: 200g. GW: 250g.	

Specifications are subjected to change without prior notice.

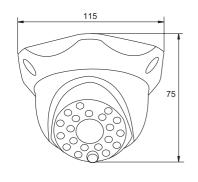
IR DOME CAMERA



Equipped with 1/3" High Sensitivity SONY CCD

- Using oval beam LEDs delivering clean vivid picture at night time
- 20 Pieces IR LEDs
- Automatic Gain Control
- Low Power Consumption

MECHANICAL DIMENSION



Model	CF-P115SH	CF-P116SH	
Image Device		HAD CCD sensor	
Video Output	, ,	Vp-p at 75 ohm	
Scanning Frequency	<u> </u>); PAL: 15,625KHz(H),50Hz(V)	
Scanning System	NTSC: 525 line 2:1 interlace	e PAL: 625 lines 2:1 interlace	
Effective Pixels	NTSC: 512(H) x 492(V) PAL: 512(H) x 582(V)	NTSC: 768(H) x 492(V) PAL: 752(H) x 582(V)	
Electronic Shutter	N: 1/60- 1/100,000sec (Auto)	; P: 1/50-1/100,000sec (Auto)	
Horizontal	450 TV lines	550 TVL	
White-balance	Auto white balance	(2500°K ~ 9500°k)	
Synchronizing System	Internal		
Sensitivity	0.1 Lux, 0 Lux at IR on / F2.0		
BLC	Auto		
Signal to Noise	More than 48dB (AGC off)		
IR Distance	15 Meters (Based on: object of view reflected IR light)		
IR LED	High Light LED x 20 pcs		
IR View Angle	View angle: 70°, Beam spread: 40° per LED		
IR Wavelength	850nm ± 25nm		
LED Life	More than 10,000 hours		
Lens	4 mm Standard		
Power Consumption	IR on: 180mA, IR off: 120mA (DC 12V) ± 5mA		
Power Supply	DC 12V		
Temperature	Operating: -10°C to 50°C		
Storage Temperature	-20°C to	-20°C to +60°C	
Construction	ABS		

Specifications are subjected to change without prior notice.

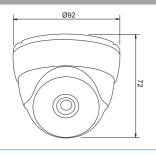
DOME CAMERA



KEY FEATURES

- 1/3" SONY Super HAD CCD Sensor
- SONY DSP, 0Lux (IR ON)
- 32 pieces IR LED (20M)
- 3.6mm Fixed Lens
- BNC Output & DC12V Input

MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

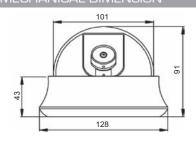
Model	CF-324IR	CF-355IR
Pick Up Device	1/3" SONY Super HAD CCD	
Effective Pixels (H x V)	NTSC:512x492	NTSC:768x492
` '	PAL:512x582	PAL:752x582
Sensing Area	4.9 mm x	3.7 mm
Horizontal Resolution	450TVL	550TVL
Min Illumination	0 Lux with	h IR LED
S/N Ratio	more that	an 48dB
Scanning Frequency	NTSC: 15,734 KI	Hz (H), 60 Hz(V)
Scarling Frequency	PAL: 15,625 KHz (H), 50 Hz (V)	
Scanning System	NTSC: 525 Line 2:1 Interlace	
	PAL: 625 Line 2:1 Interlace	
Sync System	Internal	
Electronic Shutter	AES:1/50-1/100,000SEC	
Gamma characteristics	0.45	
Lens	3.6mm board lens	
LED	32 pcs LED	
Video output	1.0Vp-p/75 Ohm	
Power supply	DC12V / 500 mA	
Operating Temperature	-10°C ~ +50°C	
Dimension	92(Ø) x 72 (W)	
Weight	300 g	

· Specifications are subjected to change without prior notice.

3 AXIS STARLIGHT PLASTIC DOME CAMERA

- 1/3" Sony Super HAD CCD
- Built-in Samsung Winner V DSP Engine
- High Resolution: 600TVL (Color), 700TVL(B/W)
- Minimum Illumination: 0.0006Lux @ F1.2
- 4-9mm Vari-focal lens, IR optional
- SSNRII, Upgraded 3D Noise Reduction Technology
- Privacy Masking with 8 Programmable Zones
- Intelligent Motion Detection: 8 Zones
- DIS (Digital Image Stabilization)
- HLC (Highlight Compensation)
- Multi-language OSD Menu
- With OSD control cable
- With 3 Axis Adjustable Gimble

MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

	DO 2000/0
Model	DC-D6600V3
Pick-up Device	1/3" Sony Super HAD CCD /Samsung Techwin W-IV DSP
Effective Pixels (H x V)	NTSC: 768 x 494
, ,	PAL: 752 x 582 4.9 x 3.7mm
Sensing Area	
Horizontal Resolution	600 TV Lines
Minimum Illumination	Color: 0.15 Lux / F1.2; 0.0006 Lux (Sense up)
S/N Ratio	More than 52dB
Scanning System	2:1 Interlace
Synchronization System	Internal
Electronic Shutter	NTSC: 1/60s ~ 1/100,000s,
zioca cino cinado.	PAL: 1/50s ~ 1/100,000s
Gamma Characteristic	0.45
Auto Gain Control	HIGH / LOW / OFF BRIGHTNESS 1 ~ 100
White Balance	INDOOR / OUTDOOR / AWC / MANUAL
DNR	OFF / ON
Language	English, Chinese, German, Italian, French, Spanish
Video Output	1.0 Vp-p Composite Video, 75Ω
Lens	4~9mm vari-focal lens, 2.8-11mm lens optional
Power Supply	12V DC
Power Consumption	120mA (IR Off) / 350mA (IR On)
Operating Environment	-10°C ~ +50°C, RH95% Max
Dimension(L x W x H)	Ø127 x 114mm
Weight	240g

· Specifications are subjected to change without prior notice.

IR DOME CAMERA

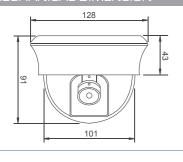


KEY FEATURES

■ 1/3" Sony Super HAD CCD

- 450 TVL: DC-DL450IR, 600TVL: DC-DL600IR
- 21pcs Ø5 IR LEDs
- 3 Axis Gimble
- IR Distance 20m
- Under 10 Lux Auto Switched IR LEDs by CDS
- Electronic Day / Night for DC-DL450IR
- Electronic Day / Night, Digital WDR for DC-DL600IR
- Cable control OSD Menu (option)

MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

Model	DC-DL450IR	DC-DL600IR
Pick-up Device	1/3" Sony Super HAD CCD	
Effective Pixels (H x V)	NTSC: 510 x 492	NTSC: 768 x 494
` '	PAL: 500 x 582	PAL: 752 x 582
Sensing Area	4.9 x 3	3.7mm
Horizontal Resolution	450 TV Lines	600 TVL
Minimum Illumination	0.5 Lux, 0 Lux at IR on	0.01 Lux, 0 Lux at IR on
Board Lens	3.6mm, 4.3mm	m, 6mm, Lens
S/N Ratio	More than 48dB	
Scanning System	2:1 Interlace	
Synchronization System	Internal	
Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s	
IR Distance	20m	
IR Leds	21 Pcs 850nm Infrared LED	
IR status	IR on: under 10Lux, by CDS Auto Control	
Gama Characteristic	0.45	
Auto Gain Control	Auto	
White Balance	Auto	
Video Output	1.0 Vp-p Composite Video, 75Ω	

· Specifications are subjected to change without prior notice.

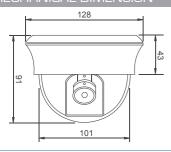
3 AXIS IR DOME CAMERA

KEY FEATURES

■ 1/3" Sony Super HAD CCD

- 450 TVL: DC-DL450VIR, 550TVL: DC-DL550VIR, 600TVL: DC-DL600VIR
- 21pcs Ø5 IR LEDs
- 3 Axis Gimble
- IR Distance 20m
- Under 10 Lux Auto Switched IR LEDs by CDS
- Electronic Day /Night for DC-DL450VIR, DC-DL550VIR
- Electronic Day /Night , Digital WDR for DC-DL600VIR
- Cable control OSD Menu (option)
- 4~9 mm varifocal lens

MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

Model	DC-DL450VIR	DC-DL550VIR	DC-DL600VIR
Pick-up Device	1/3" Sony Super HAD CCD		
Effective Pixels (H x V)	NTSC: 510 x 492 PAL: 500 x 582	NTSC: 768 x 494 PAL: 752 x 582	NTSC: 768 x 494 PAL: 752 x 582
Sensing Area		4.9×3.7mm	
Horizontal Resolution	450 TV Lines	550TVL	600 TVL
Minimum Illumination	0.5 Lux, 0 Lux at IR on	0.5 Lux, 0 Lux at IR on	0.01 Lux, 0 Lux at IR on
S/N Ratio	More than 48dB		
Scanning System	2:1 Interlace		
Synchronous System	Internal		
Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s		
Lens	Varifocal 4~9mm Lens		
IR Distance	20m		
IR Leds	21 Pcs 850nm Infrared LED		
IR status	IR on: under 10Lux, by CDS Auto Control		
Gama Characteristic	0.45		
Auto Gain Control	Auto		
White Balance	Auto		
Video Output	1.0 Vp-p Composite Video, 75Ω		

• Specifications are subjected to change without prior notice.

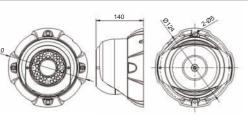
700 TVL IR DOME (30M)



KEY FEATURES

- 1/3" Sony Effio-E CCD
- 700 TVL
- 36 pcs IR Leds (30M)
- 4 ~ 9mm or 2.8 ~ 10mm varifocal lens
- Average Life: 20,000 hours
- IP66, ICR
- OSD, ATR WDR, ETC

MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

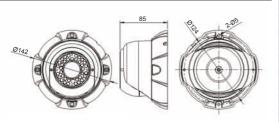
Model	CF-IRDV771E4	CF-IRDV771E-28
Pick-up Device	1/3" Sony Effio-E CCD	
Effective Pixels (H x V)	NTSC: 811 x 508, P.	AL: 976(H) x 582(V)
Horizontal Resolution	700 TV	Lines
Minimum Illumination	0 Lux a	at IR on
S/N Ratio	More that	an 52dB
Scanning System	2:1 Int	erlace
Synchronzing System	Inte	rnal
Electronic Shutter	NTSC: 1/60s ~ 1/100,000s, PAL: 1/50s ~ 1/100,000s	
Gamma Correction	0.45	
IR Distance	30M	
IR Leds	36pcs IR Leds	
IR status	IR on: under 10Lux, By CDS auto control	
Video Output	1.0 Vp-p Composite Video, 75Ω	
Lens	4-9mm Varifocal Lens 2.8-10mm Varifocal lens	
Power Supply	12V DC	
Power Consumption	IR on: 330mA, IR off: 90mA	
Operating Environment	-20°C ~ +60°C, RH95% Max	
Dimension (L x W x H)	Ø110 mm x 140 (H) mm	
Weight	600g	

· Specifications are subjected to change without prior notice.

600TVL IR DOME

- 1/3" Sony Super Had CCD
- 600 TVL
- 36 IR F5 Leds. Illuminate up to 30M
- Under 10lux Auto Switcher IR LED by CDS
- Privacy Masking with 4 Programmable Zones
- 4-9mm Manual Iris Lens
- With IR CUT
- Zoom & Focus External Adjustable

MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

Model	CF-IRD6003C	
Pick-up Device	1/3" Sony Super HAD CCD	
Effective Pixels (H x V)	NTSC: 768 x 494, PAL: 752 x 582	
Sensing Area	4.9 x 3.7mm	
Horizontal Resolution	600 TV Lines	
Minimum Illumination	0.01 Lux, 0 Lux at IR on	
S/N Ratio	More than 52dB	
Scanning System	2:1 Interlace	
Synchronzing System	Internal	
Electronic Shutter	NTSC: 1/60s ~ 1/100,000s, PAL: 1/50s ~ 1/100,000s	
Gamma Correction	0.45	
IR Distance	30M	
IR Leds	36 Pcs 850nm infrared LED	
IR status	IR on: under 10Lux, By CDS auto control	
Video Output	1.0 Vp-p Composite Video, 75Ω	
White Balance	ATW/AWC-SET/MANUAL	
Lens	4-9mm Manual Iris Iens 2.8-10mm	
Power Supply	12V DC	
Power Consumption	IR on: 370mA, IR off: 130mA	
Operating Environment	-20°C ~ +60°C, RH95% Max	
Dimension (L x W x H)	Ø142 mm x 82 (H) mm	
Weight	750g	

· Specifications are subjected to change without prior notice.

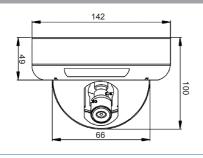
VANDAL PROOF DOME CAMERA (20M)



KEY FEATURES

- 1/3" Sony ICX673AK CCD
- 680 TVL
- 23 IR F5 IR Leds. 20M
- 3-Axis Gimble
- Privacy Masking with 4 Programmable Zone
- With OSD Menu
- With ICR (Option)

MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

Model	DC-CDV6204AV
Pick-up Device	1/3" Sony ICX673AK CCD
Effective Pixels (H x V)	NTSC: 768 x 494, PAL: 752 x 582
Sensing Area	4.9 x 3.7 mm
Horizontal Resolution	680 TV Lines
Minimum Illumination	0.01 Lux, 0 Lux at IR on
S/N Ratio	More than 52dB
Scanning System	2:1 Interlace
Synchronzing System	Internal
Electronic Shutter	NTSC: 1/60s ~ 1/100,000s, PAL: 1/50s ~ 1/100,000s
Gamma Correction	0.45
IR Distance	20M
IR Leds	23 Pcs 850nm infrared LED
IR status	IR on: under 10Lux, By CDS auto control
Video Output	1.0 Vp-p Composite Video, 75Ω
White Balance	ATW / PUSH / USER / ANTI CR / MANUAL / PUSH LOCK
Lens	4-9mm varifocal Lens (2.8-10mm Option)
Power Supply	12V DC
Power Consumption	IR on: 290mA, IR off: 130mA
Operating Environment	-20°C ~ +60°C, RH95% Max
Dimension (L x W x H)	F142 x 100mm
Weight	700g
Package	24pcs / Carton, 59.5 x 45.5 x 21.7cm

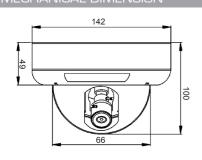
Specifications are subjected to change without prior notice.

VANDAL PROOF DOME CAMERA (20M)

KEY FEATURES

- 1/3" Sony CCD
- 600 TVL
- 23 IR F5 IR Leds. 20M
- 3 Axis Gimble
- Privacy Masking with 4 Programmable Zone
- With OSD Menu
- With ICR (Option)

MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

Model	DC-CDV6134AV
Pick-up Device	1/3" Sony CCD
Effective Pixels (H x V)	NTSC: 768 x 494, PAL: 752 x 582
Sensing Area	4.9 x 3.7 mm
Horizontal Resolution	600 TV Lines
Minimum Illumination	0.01 Lux, 0 Lux at IR on
S/N Ratio	More than 50dB
Scanning System	2:1 Interlace
Synchronzing System	Internal
Electronic Shutter	NTSC: 1/60s ~ 1/100,000s, PAL: 1/50s ~ 1/100,000s
Gamma Correction	0.45
IR Distance	20M
IR Leds	23 Pcs 850nm infrared LED
IR status	IR on: under 10Lux, By CDS auto control
Video Output	1.0 Vp-p Composite Video, 75Ω
White Balance	ATW / AWC-SET / MANUAL
Lens	4-9mm Varifocal Lens (2.8-10mm Option)
Power Supply	12V DC
Power Consumption	IR on: 290mA, IR off: 130mA
Operating Environment	-20°C ~ +60°C, RH95% Max
Dimension (L x W x H)	F142 x 100mm
Weight	700g
Package	24pcs / Carton, 59.5 x 45.5 x 21.7cm

• Specifications are subjected to change without prior notice.

3.5" VANDAL IR DOME **CAMERA WITH VARIFOCAL LENS**



KEY FEATURES

IP66 Rated Housing

- 3 Dimensional Design
- Compact & Vandal Resistant Construction
- Suitable for indoor and outdoor use with a external bracket
- DSP controls for BLC, white balance and gain control
- Day & Night switchable with ICR mechanism
- Digital Noise Reduction
- Integrated of Varifocal DC Iris 2.8-11 mm Lens, 9~22 mm Lens (option)
- Fitted with LED for a better illumination at night
- With built in heater
- UTP (option)
- VD-B03R (optional bracket)
- Aluminum Housing

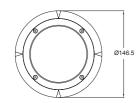
3-AXIS DESIGN







MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

Model	VD-3VIR280	
Image Sensor	1/3" Sony CCD	
Effective Pixels	PAL: 752(H) x 582(V) NTSC: 771(H) x 492(V)	
Resolution	600TV Lines	
Scanning System	2:1 Interlace V: 50Hz 15.525KHz 2:1 Interlace V: 50Hz 15.750KHz	
Synchronization	Internal	
Video Output	1Vp-p, 75 ohms unbalanced	
Minimum Illumination	0.05 Lux F1.4	
OSD Language	English/Chinese/Japanese	
Electronic Shutter	OSD Control: 1/50(60) ~ 1/100,000 sec.	
White Balance	OSD Control: Tracking 2500°K ~ 9500°K	
BLC	OSD Control, Center Area	
DWDR	OSD Control	
DNR	OSD Control (0 ~ 32 Level Adjustable)	
Gamma Correction	0.45	
Gain Control	OSD Control	
Motion Detection	OSD Control (4 zone)	
FLIP (V-REV)	OSD Control	
Freeze	OSD Control	
Sharpness	OSD Control (LEVEL Adjustable)	
Digital Zoom	OSD Control (x1 ~ 10)	
Blemish Compensation	256 Point (Even 128 Point. ODD 128 Point)	
UTP Gain	UTP Gain Adjustable (option)	
D & N Selection	COLOR/BW/AUTO/EXT	
IR LED Unit	28 pieces	
IR Effective Range	25M ~ 30M	
Built in Lens	2.8 ~ 11 mm DC Iris varifocal Lens 9 ~ 22 mm lens (option)	
S/N Ratio	More than 50dB (AGC off)	
Operating Temperature	-10°C +45°C	
Storage Temperature	-30°C +60°C	
Power Supply	AC24V/ DC12V(Dual Power)	
Power Consumption	IR OFF: 300mA under DC12V IR ON: 1A under DC12V	
Dimension (L x W) mm	170.45Ø x 79(H) mm	
Weight	750g	



VD-BO3R Wall Mount Bracket



VD-B04L-J Junction Box



SIDE VIEW



FRONT VIEW

3.5" VANDAL DOME CAMERA WITH VARIFOCAL LENS

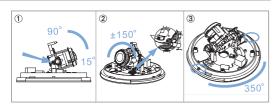


KEY FEATURES

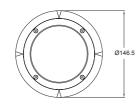
Compact & Vandal Resistant Construction

- Suitable for indoor and outdoor use with a external bracket
- DSP controls for BLC, white balance and gain control
- 3 Dimensional Design
- IP66 Rated Housing
- Unique Burglar Proof screw
- Digital Noise Reduction
- Integrated of Varifocal DC Iris 3.5 ~ 9.5 mm Lens, or 2.8 ~ 11mm
- Lens, 9 ~ 22 mm Lens (option)
- UTP (option)
- VD-B03R (optional bracket)
- Aluminum Housing

3-AXIS DESIGN



MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

Model	VD-3V280	
Image Sensor	1/3" SONY CCD	
Effective Pixels	PAL: 752(H) x 582(V) NTSC: 771(H) x 492(V)	
Resolution	600TV Lines	
Scanning System	2:1 Interlace V: 50Hz 15.525KHz 2:1 Interlace V: 60Hz 15.750KHz	
Synchronization	DC: Internal AC:Linelock (option)	
Video Output	1Vp-p, 75 ohms unbalanced	
Minimum Illumination	0.05 Lux F1.4	
Electronic Shutter	Auto: 1/50(60) ~ 1/100,000 sec.	
White Balance	Auto Tracing 2500°K ~ 9500°K	
BLC	Auto, Center area	
Flickerless	ON/OFF	
Gamma Correction	0.45	
Gain Control	Auto	
Built in Lens	3.5° 9.5mm DC Iris Varifocal lens 2.8 $^\circ$ 11 mm , 9 $^\circ$ 22 mm DC Iris Varifocal lens (option)	
S / N Ratio	More than 50dB (AGC off)	
Operating Temperature	-10°C+45°C	
Storage Temperature	-30°C+60°C	
Power Supply	AC24V/ DC12V±20%	
Power Consumption	300mA under DC12V	
Dimension (mm)	170.45Ø x 79(H) mm	
Weight	750 g	

Specifications are subjected to change without prior notice.



VD-B03R Wall Mount Bracket



VD-B04L-J Junction Box



SIDE VIEW



FRONT VIEW

ANTI-GRIP DOME CAMERA

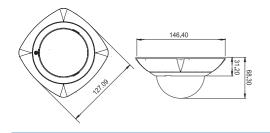


- Ultra Compact and Light Weight
- Anti-Grip with Tri-Axis Gimble design
- With 1/3" CCDs: Sony
- Stable Picture Quality
- ABS Housing
- Aperture Correction

3-AXIS DESIGN



MECHANICAL DIMENSION



Model	DC-525A-W25	
Image Sensor	1/3" Sony CCD	
Resolution	600 TV Lines	
Effective Pixels	PAL: 752(H)×582(V) NTSC:768(H)×494(V)	
Total Pixels	PAL: 795(H)×596(V) NTSC:811(H)×504(V)	
Scanning System	2:1 Interlace	
Video Output	1Vp-p output , 75 ohm composite	
Synchronization	Internal	
S/N Ratio	More than 48 dB	
OSD Language	OSD Control	
Gamma Correction	0.45	
Shutter Control	NTSC: 1/60 sec. ~ 1/100,000 sec. PAL: 1/50 sec. ~ 1/100,000 sec.	
Minimum Illumination	0.5 Lux F1.8	
Lens Mount	2.5mm Wide Angle Lens	
Audio	Support	
White Balance	OSD Control	
Gain Control	OSD Control	
DNR	OSD Control	
Motion Detection	OSD Control	
Privacy	OSD Control	
Mirror (H-REV)	OSD Control	
Blemish Compensation	OSD Control	
D&N Selection	OSD Control	
D-WDR	OSD Control	
Black Light	OSD Control	
Backlight Compensation	Full Auto	
Auto Gain Control	Full Auto	
Power Supply	DC12V	
Power Consumption	60 mA±10%	
Storage Temperature	-30°C +60°C	
Operating Temperature	-10°C +45°C	
Dimension L×W×H mm	127.09 mm x 99.5(H) mm	
Weight	240 g	

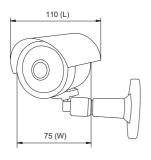
[•] Specifications are subjected to change without prior notice.

IR BULLET CAMERA



- IR distance: 30 meters
- Horizontal resolution 450 TV Lines, 550 TV Lines
- Built in fixed lens 4 mm, 6 mm Lens
- Attractive white housing/stainless steel joint for long durability
- IP66 Rated for outdoor use

MECHANICAL DIMENSION



Model	ICX-IR108SH	ICX-IR120SH	
Image Device	1/3" Sony (CCD sensor	
Video Output	Composite 1.0 Vp-p at 75 ohm		
Scanning System	NTSC: 525 Line 2:1 interlace, 15,734KHz(H), 60Hz(V) PAL: 625 Lines 2:1 interlace 15,625KHz(H), 50Hz(V)		
Effective Pixels	NTSC: 512(H) x 492(V)		
Electronic Shutter	NTSC: 1/60-1/100,000 sec (Auto	b); PAL: 1/50-1/100,000sec (Auto)	
Horizontal	450 TV Lines	550 TV Lines	
White-balance	Auto white balance	(2500°K~9500°K)	
Synchronizing System	Inte	ernal	
Sensitivity	0.1 Lux, 0 Lux at IR on / F2.0		
BLC	Auto		
Signal to Noise	More than 48dB AGC off		
AGC	Yes		
Gamma Correction	0.45		
IR Distance	30Meters (Max.)		
IR LED	40 pcs LED		
IR Status	Under 10 Lux by CDS auto control		
IR View Angle	View angle: 70°, Beam spread: 40°/per LED		
IR Wavelength	850nm ± 25nm		
LED Life	More than 1	10,000 hours	
Lens	4 mm Standard	d (6mm Option)	
Power Consumption	IR On: 280 mA	A, IR Off: 70 mA	
Operating Temperature	-10 to	50°C	
Storage Temperature	-20°C to +60°C		
Video Output	Composite 1.0 Vp-p at 75 ohm		
Construction	Aluminum		
Dimension	75Ø x 110(L) mm		
Weight	400 g		

Specifications are subjected to change without prior notice.

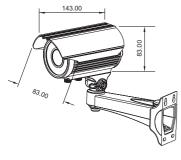
IR BULLET CAMERA



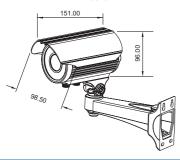
- 1/3" Sony Effio-E
- 650 TVL
- 42 IR Leds.Illuminate up to 40M, or 72 IR Leds. Illuminate up to 60M
- 4-9mm Varifocal Lens (9-22mm Optional)
- With OSD, ATR WDR
- Average Life: 20,000 hours
- IP65

MECHANICAL DIMENSION

AT-IRV265E/42



AT-IRV265E/72



TECHNICAL SPECIFICATIONS

Model	AT-IRV265E/42	AT-IRV265E/72	
Pick-up Device	1/3" Sony Effio-E		
Effective Pixels (H x V)	NTSC: 768 x 494, PAL: 752 x 582		
Sensing Area	4.9 x 3.7mm		
Horizontal Resolution	650 TV	Lines	
Minimum Illumination	0.5 Lux, 0 L	ux at IR on	
S/N Ratio	More than 48dB		
Scanning System	2:1 Interlace		
Synchronous System	Internal		
Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s		
Gama Characteristic	0.45		
IR Distance	40M		
IR Leds	42 Pcs 850nm infrared LED	72 Pcs 850nm infrared LED	
IR status	IR on: under 10Lux, E	By CDS auto control	
Video Output	1.0 Vp-p Composite Video, 75Ω		
Lens	4-9mm Varifocal Lens (9-22mm lens Optional)		
Power Supply	12V DC		
Power Consumption	IR on: 330mA, IR off: 90mA		
Operating Environment	-10°C ~ +50°C, RH95% Max		
Dimension (L x W x H)	140 x Ø70 x 70mm		
Weight	850g		
Package	20pcs/Carton, 59 x 49 x 39 cm		

Specifications are subjected to change without prior notice.

IR BULLET CAMERA (20M)

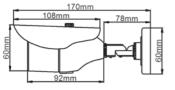


KEY FEATURES

• 1/3" Sony Super HAD CCD

- 600 TVL
- 23 IR F5 Leds. Illuminate u to 20M
- Electronic Day & Night
- Cable Control OSD Menu

MECHANICAL DIMENSION





TECHNICAL SPECIFICATIONS

Model	ICX-IRF6020C28	
Pick-up Device	1/3" Sony Super HAD CCD	
Effective Pixels (H x V)	NTSC: 768 x 494, PAL: 752 x 582	
Sensing Area	4.9 x 3.7mm	
Horizontal Resolution	600 TV Lines	
Minimum Illumination	0.01 Lux, 0 Lux at IR on	
S/N Ratio	More than 52dB	
Scanning System	2:1 Interlace	
Synchronous System	Internal	
Electronic Shutter	NTSC: 1/60s ~ 1/100,000s , PAL: 1/50s ~ 1/100,000s	
Gama Characteristic	0.45	
IR Distance	20M	
IR Leds	23 Pcs 850nm infrared LED	
IR status	IR on: under 10Lux, By CDS auto control	
Video Output	1.0 Vp-p Composite Video, 75Ω	
White Balance	ATW / AWC-SET / MANUAL	
Lens	3.6mm Board Lens	
Power Supply	12V DC	
Power Consumption	IR on: 280mA, IR off: 90mA	
Operating Environment	-20°C ~ +60°C, RH95% Max	
Dimension (L x W x H)	170 x 69 x 65 mm	
Weight	400g	
Package	25pcs / Carton, 51.5 x 39 x 37cm	

[•] Specifications are subjected to change without prior notice.

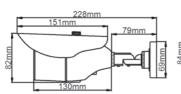
IR BULLET CAMERA (30M)

KEY FEATURES

• 1/3" Sony Super HAD CCD

- 600 TVL
- 36 IR F5 Leds. 30M
- IP66 with Weather proof Shield
- Electronic Day/Night
- 2.8-10mm Auto iris lens (4-9mm)
- With IR CUT (Option)
- Cable control OSD Menu
- 3-Axis Cable Management Cable Base

MECHANICAL DIMENSION





TECHNICAL SPECIFICATIONS

Model	ICX-B3600V4	
Pick-up Device	1/3" Sony Super HAD CCD	
Effective Pixels (H x V)	NTSC: 768 x 494, PAL: 752 x 582	
Sensing Area	4.9 x 3.7mm	
Horizontal Resolution	600 TV Lines	
Minimum Illumination	0.01 Lux, 0 Lux at IR on	
S/N Ratio	More than 52dB	
Scanning System	2:1 Interlace	
Synchronous System	Internal	
Electronic Shutter	NTSC: 1/60s ~ 1/100,000s , PAL: 1/50s ~ 1/100,000s	
Gama Characteristic	0.45	
IR Distance	30M	
IR Leds	36 Pcs 850nm infrared LED	
IR status	IR on: under 10Lux, By CDS auto control	
Video Output	1.0 Vp-p Composite Video, $75Ω$	
White Balance	ATW / AWC-SET / MANUAL	
Lens	2.8-10mm Auto iris Lens (4-9mm Varifocal Lens)	
Power Supply	12V DC	
Power Consumption	IR on: 360mA, IR off: 90mA	
Operating Environment	-20°C ~ +60°C, RH95% Max	
Dimension (L x W x H)	228 x 97 x 84mm	
Weight	530g	

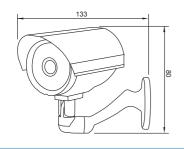
· Specifications are subjected to change without prior notice.

IR BULLET CAMERA (40M)



- 1/3" Sony Effio-E CCD
- 700 TVL
- 48IR Leds. Illuminate u to 40M
- 3.6 MM Fixed Lens
- Average Life: 20,000 hours
- IP66, ICR (Option)
- OSD, ATR WDR, ETC

MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

Model	ICX-IRF971E	ICX-IRF971E-ICR	
Pick-up Device	1/3" Sony Effic-E CCD		
Effective Pixels (H x V)	NTSC: 811 x 508 , P		
Horizontal Resolution			
	700 TV Lines		
Minimum Illumination	0.5 Lux, 0 L		
S/N Ratio	More that	an 52dB	
Scanning System	2:1 Int	2:1 Interlace	
Synchronous System	Internal		
Electronic Shutter	NTSC: 1/60s ~ 1/100,000s , PAL: 1/50s ~ 1/100,000s		
Gama Characteristic	0.45		
IR Distance	40M		
IR Leds	48Pcs 840nm infrared LED		
IR status	IR on: under 10Lux,	By CDS auto control	
Video Output	1.0 Vp-p Composite Video, 75Ω		
Lens	3.6mm Fixed Lens		
Power Supply	12V DC		
Power Consumption	IR on: 330mA, IR off: 90mA		
Operating Environment	-20°C ~ +60°C	C, RH95% Max	
Dimension (L x W x H)	133mm x 80mm		
Weight	550 g		

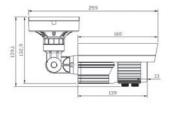
• Specifications are subjected to change without prior notice.

IR BULLET CAMERA (40M)



- 1/3" Sony ICX673AK CCD
- 700 TVL
- 42 IR F5 IR Leds. 40M
- IP66 ,3-Axis Cable Management Bracket
- Privacy Masking with 4 Programmable Zones
- 2.8-10mm Auto iris lens (4-9mm)
- With IR CUT
- Multi-language OSD Menu
- 3-Axis Cable Management Cable Base

MECHANICAL DIMENSION





Model	ICX-IRV700C/28	
Pick-up Device	1/3" Sony ICX673AK CCD	
Effective Pixels (H x V)	NTSC: 768 x 494 , PAL: 752 x 582	
Sensing Area	4.9 x 3.7mm	
Horizontal Resolution	700 TV Lines	
Minimum Illumination	0.01 Lux, 0 Lux at IR on	
S/N Ratio	More than 52dB	
Scanning System	2:1 Interlace	
Synchronous System	Internal	
Electronic Shutter	NTSC: 1/60s~1/100,000s , PAL: 1/50s~1/100,000s	
Gama Characteristic	0.45	
IR Distance	40M	
IR Leds	42 Pcs F5 850nm infrared LED	
IR status	IR on: under 10Lux, By CDS auto control	
Video Output	1.0 Vp-p Composite Video, 75Ω	
White Balance	ATW / PUSH / USER / ANTI CR / MANUAL / PUSH LOCK	
Lens	2.8-10MM Auto iris Lens (4-9mm Varifocal lens)	
Power Supply	12V DC	
Power Consumption	IR on: 470mA, IR off: 130mA	
Operating Environment	-20°C ~ +60°C, RH95% Max	
Dimension (L x W x H)	259 x 139 x 102mm	
Weight	1300 g	
Package	10pcs / Carton, 91 x 35 x 33cm	
	0.75.6	

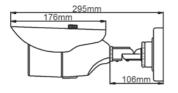
[•] Specifications are subjected to change without prior notice.

EXTERNAL ADJUSTABLE IR BULLET CAMERA (40M)



- 1/3" Sony Super HAD CCD
- 600 TVL
- 35 IR F8 IR Leds. 50M
- IP66 with Weather proof Shield
- Electronic Day/Night
- 2.8-10mm Auto iris lens (4-9mm)
- With IR CUT
- Cable control OSD Menu
- 3-Axis Cable Management Cable Base

MECHANICAL DIMENSION





	IOV ID Frances	
Model	ICX-IRV7020C28	
Pick-up Device	1/3" Sony Super HAD CCD	
Effective Pixels (H x V)	NTSC: 768 x 494, PAL: 752 x 582	
Sensing Area	4.9 x 3.7mm	
Horizontal Resolution	600 TV Lines	
Minimum Illumination	0.01 Lux, 0 Lux at IR on	
S/N Ratio	More than 52dB	
Scanning System	2:1 Interlace	
Synchronous System	Internal	
Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s	
Gama Characteristic	0.45	
IR Distance	50M	
IR Leds	35 Pcs F8 850nm infrared LED	
IR status	IR on: under 10Lux, By CDS auto control	
Video Output	1.0 Vp-p Composite Video, 75Ω	
White Balance	ATW / AWC-SET / MANUAL	
Lens	2.8-10MM Auto iris Lens (4-9mm Varifocal lens)	
Power Supply	12V DC	
Power Consumption	IR on: 580mA, IR off: 90mA	
Operating Environment	-20°C ~ +60°C, RH95% Max	
Dimension (L x W x H)	295 x 120 x 103mm	
Weight	900g	

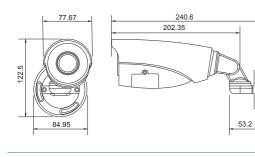
[·] Specifications are subjected to change without prior notice.

IR BULLET CAMERA



- 1/3" CCD Image Sensor
- 600 Lines of Resolution
- Flexible lens : Board lens: 3.6mm/4.3mm/6mm
- Up to 30M IR range
- Aspherical IR lenses with IR cut filter
- Dual Voltage Power
- 500lb of force resistant bracket
- Cable Management Mount
- With Heater
- IP66 Rated Housing

MECHANICAL DIMENSION



Model	AV-B621	AV-B655	AV-B681
Image Device	1/3" SONY CCD	1/3" Sharp CCD	1/3" SONY CCD
Effective Pixels	NTSC: 512(V) x 492(V) PAL: 500(V) x 582(V)	NTSC: 768(H) x 494 (V) PAL: 752(H) x 582(V)	NTSC: 768(H) x 494 (V) PAL: 752(H) x 582(V)
Scanning System		2:1 Interlace	
Horizontal Resolution	450TV Lines	500 TV Lines	600 TV Lines
Video Output		1Vp-p Video composite, 75 ohm	
Sensitivity		0.1 ~ 0.5 Lux	
Synchronization		Internal	
S/N Ratio		More than 48 dB	
Gamma Correction		0.45	
Electronic Shutter		Auto & up to 1/100,000 sec	
Lens	3.6 / 4.3 / 6.0 mm Lens 3.6mm: (D)89°(H)68°(V)49.56° 4.3mm: (D)78°(H)62°(V)46.5° 6.0mm: (D)46°(H)36.69°(V)27.51°		
IR LEDS	24 pieces		
IR Wavelength	850nM		
IR Range	Lens 3.6/4.3mm: IR Range 30M Lens 6mm: IR Range 50M		
IP Rated Housing	IP 66		
Auto White Balance	Full Auto		
Auto Gain Control		Full Auto	
Backlight Compensation	Full Auto		
Aperture Correction	2H mode of H.V. aperture correction		
Power Supply	DC12V or AC24V/DC12V (option)		
Heater Power		Heater will be truned on at 15°C or under	
Storage Temperature	-30°C-+60°C		
Operating Temperature	-10°C-+55°C		
Dimension	230(L)mm x 77.5(W) mm x 76.3(H) mm		
Net Weight	950g		

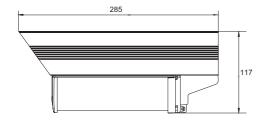
Specifications are subjected to change without prior notice.

OUTDOOR IR CAMERA



- Horizontal resolution 450 TV Lines, 550 TV Lines
- Auto Gain Control
- IR distance: 60 Meters
- LED: 77 unit 840nM infrared LED
- Power on: CDS auto control

MECHANICAL DIMENSION



Model	ICX-3450V4	ICX-3550V4	
Image Device	1/3" Sony CCD sensor		
Scanning Frequency	NTSC: 15,734KHz(H), 60Hz(V); PAL: 15,625KHz(H),50Hz(V)		
0	NTSC: 525 line 2:1 interlace PAL: 625 lines 2:1 interlace		
Scanning System			
Effective Pixels	NTSC: 512(H) x 492(V)	NTSC: 768(H) x 492(V)	
Zilocaro i ixolo	PAL: 512(H) x 582(V)	PAL: 752(H) x 582(V)	
Electronic Shutter	N:1/60- 1/100,0 PAL:1/50-1/100		
Horizontal	450 TV Lines	550 TV Lines	
White-balance	Auto white balance (2500°K~9500°K)		
Synchronizing System	Internal		
Sensitivity	0.1 Lux , 0 Lux at IR on / F2.0		
BLC	Auto		
Signal to Noise	More than 48dB AGC off		
AGC	Yes		
Gamma Correction	0.45		
IR Distance	60 Meters (Max.)		
IR LED	77 pcs LED		
IR Status	Under 10 Lux by CDS auto control		
IR View Angle	View angle: 70°, Beam spread: 40°/per LED		
IR Wavelength	840nm ± 25nm		
LED Life	More than 10,000 hours		
Lens	4-9MM VARIFOCAL LENS		
Power Consumption	IR on: 1A, IR off: 70mA ± 5mA		
Power Supply	12VDC OR 110V ~ 240V		
Temperature	Operating: -10 to 50°C		
Video Output	Composite 1.0 Vp-p at 75 ohm		
Construction	Aluminum		
Dimensions	285 (L) x 121 (W) x 117(H) mm		
N.W	900G		

Specifications are subjected to change without prior notice.

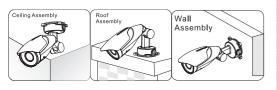
TAMPER PROOF IR NIGHT VISION BULLET CAMERA



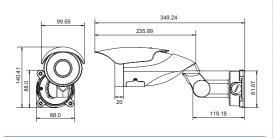
• Choice of 600 TV lines camera

- Horizontal resolutions 600 TV lines camera
- Maximum IR effective distance can up to 120 Meters, with Hi-Power LEDs
- True Day Night Surveillance with ICR filter mechanism
- Built In aspherical varifocal DC Iris lens: 4~9mm, 2.8~11mm, 6~50mm, 9~22mm
- Easy to be installed
- Tri-Axis Bracket for Wall, Ceiling and Roof
- Concealed Cabling Management
- Low Power Consumption
- Powered with AC24V/DC12V
- IP66 Rated for Outdoor Use
- Built in heater
- Standard Color: Silver
- UTP (option)

3-AXIS DESIGN



MECHANICAL DIMENSION



Model	YV-XP8860	YV-XP8862	YV-XP8864	YV-XP9650
CCD Sensor	1/3" SONY CCD + Next Chip DSP			
Effective Pixels	NTSC: 768(V) x 494(V) PAL: 752(V) x 582(V)			
Horizontal Resolution	Color:600 TVL B/W: 700 TVL			
Synchronization System	Internal			
S/N Ratio	48 dB			
Gamma Correction	0.45			
Video Output	1Vp-p, 75 ohms unbalanced			
Lens	4~9 mm F1.2, Varifocal DC Iris Lens	2.8~11 mm F1.2, Varifocal DC Iris Lens	9~22mm F1.2 , Varifocal DC Iris Lens	6~50mm F1.2 , Varifocal DC Iris Lens
Minimum Illumination	Color: 0.001 Lux B/W: 0 Lux			
IR Cut	Yes, automatic switchover from color to monochrome by IR Cut Filter			
DWDR	OSD Control			
DNR	OSD Control (on/off)			
Motion Detection	OSD Control (4 zone)			
Privacy Mask	OSD Control (8 zone)			
Mirror (H-REV)	OSD Control			
Sharpness	OSD Control (Level Adjustable)			
D & N Selection	Auto Only			
Blemish Compensation	OSD Control (DPC)			
Backlight Compensation	OSD Control			
White Balance	OSD Control			
Auto Electric Shutter	OSD Control			
IR LEDs	18 pieces Hi-Power LED			
IR Range Distance	70M	50M	100M	120M
IR Wavelength	850nM			
IP Rated	IP66			
Heater Power	Heater will be turned on at 15°C			
Storage Temperature	-30°C to +60°C			
Operating Temperature	-10°C to +50°C			
Power Consumption	IR OFF: 200mA±10% IR ON: 700mA±15%			
Power Supply	AC24V/DC12V±10%			
Bracket	3 dimensional: suitable for wall, ceiling & roof mounting			
Dimension	350(L) x 100(W) x 140(H)mm			
Weight	1.7 kgs			

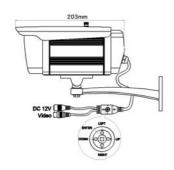
600 TVL IR BULLET CAMERA



- 1/3" Color Sony Super HAD
- Digital Wide Dynamic Range
- Preset OSD Menu
- HLC (High Light Compensation)
- 2D-DNR (Digital Noise Reduction)

MECHANICAL DIMENSION





Model	ICX-IR3677R	
	The State of the S	
Image Device	1/3" Color Sony Super HAD	
Effective Pixels (H x V)	NTSC:768x 494, PAL:752 x 582	
Horizontal Resolution	600TV Lines	
Minimum Illumination	0 Lux (IR on)	
S/N Ratio	More than 52dB	
Electronic Shutter	NTSC: 1/60s ~ 1/100,000s, PAL: 1/50s ~ 1/100,000s	
Flickerless Mode	On/Off (NTSC: 1/100, PAL: 1/120)	
Gamma Correction	0.45	
Video Output	1Vp-p / 75 ohms	
Lens	Fixed IRIS Lens 6.0 mm / F1.6	
Digital Noise Reduction	2D DNR	
Wide Dynamic Range	DWDR (on/off)	
White Balance	OSD adjustment	
On Screen Display (OSD)	English / Chinese	
Synchronous System	Internal	
Back Light Compensation	Off (Default) / BLC / HLC	
Flickerless	Yes	
Day & Night	Color / BW / Auto Switch	
Mirror	Yes (Default: Off)	
Privacy Masking	8 Zone (Default: off)	
Motion Detection	4 Zone (Default: off)	
Gain Control	Auto / Manual	
Infrared Luminary	2 pcs 3 rd Generation LED (850nM)	
IR Range	40M	
Power Supply	12V DC± 10%	
Power Consumption	IR on: 600 mA max. IR Off: 80 mA max.	
Operating Temperature	-10°C ~ +50°C	
Storage Temperature	-30°C ~ +60°C	
Dimension (L x W x H)	203(L) x 93(W) x 166(H) mm	
	Specifications are subjected to change without prior notice	

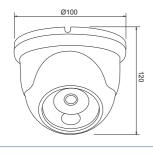
Specifications are subjected to change without prior notice.

IR DOME CAMERA (30M)



- 1/3" Sony Effio-E CCD
- 700 TVL
- 1pc III Array IR Leds. Illuminate u to 30M
- 3.6 / 6mm Fixed Lens
- Average Life: 20,000 hours
- IP66, ICR (Option)
- OSD, ATR WDR, ETC

MECHANICAL DIMENSION



Model	CF-IRD871E	CF-IRD871E-ICR
Pick-up Device	1/3" Sony E	Effio-E CCD
Effective Pixels (H x V)	NTSC: 811 x 508, P.	AL: 976(H) x 582(V)
Horizontal Resolution	700 TV	/ Lines
Minimum Illumination	0 Lux a	at IR on
S/N Ratio	More that	an 52dB
Scanning System	2:1 Int	erlace
Synchronzing System	Internal	
Electronic Shutter	NTSC: 1/60s ~ 1/100,000s, PAL: 1/50s ~ 1/100,000s	
Gamma Correction	0.45	
IR Distance	30M	
IR Leds	1pc III Array IR Led	
IR status	IR on: under 10Lux, By CDS auto control	
Video Output	1.0 Vp-p Composite Video, 75Ω	
Lens	3.6mm or 6mm Fixed Lens	
Power Supply	12V DC	
Power Consumption	IR on: 330mA, IR off: 90mA	
Operating Environment	-20°C ~ +60°C, RH95% Max	
Dimension (L x W x H)	Ø100 mm x 120 (H) mm	
Weight	500g	

Specifications are subjected to change without prior notice.

SMOKE DETECTOR CAMERA



KEY FEATURES

- Patent: OSD Function operated by Remote Control (Optional)
- (Adjust the parameters of camera easily)
- 1/3" Sony Super HAD Color CCD Sensor
- Excellent Picture Performance with Hi-resolution (540TVL)
- Apply to Home Security, School, Supermarket, Restaurant, Government Building, Bank, Hotel
- Video Output Dual Port (Optional): BNC & Balun
- (Balun: extend to 600 meters)

TECHNICAL SPECIFICATIONS

Model	SMC-420 SMC-540			
Lens	4.3mm (Available for 2.9 / 4.3 / 6.0 / 8.0 / 12 / 16mm)			
Color CCD	`	D Color CCD Sensor		
System	NTSC	/ PAL		
SYNC System	Inte	rnal		
Number of Pixel	NTSC: 512 (H) x 492 (V) NTSC: 768 (H) x 494 (V) PAL: 512 (H) x 582 (V) PAL: 752 (H) x 582 (V)			
Resolution	420 TV Lines	540 TV Lines		
Minimum Illumination	0.1 Lux			
S / N Ratio	More than 48 dB			
Electronic Shutter	1/60 (50) to 1 / 100,000 sec.			
Gamma Correction	0.45			
White Balance	Auto (ATW)			
AGC	Automatic			
BLC	Automatic			
Current Consumption	80mA ± 10 %			
Working Voltage	DC 12V-18V			
Video Output	1.0 Vp-p Composite, 75Ω			
Video Output Dual Port	Optional			
Scanning Frequency	15.734 KHz (H), 59.94 Hz (V) (NTSC)			
D/A Bit	10 D/A Bit			
Operation Temperature	-10°C~ 60°C			

Specifications are subjected to change without prior notice.

PIR CAMERA



KEY FEATURES

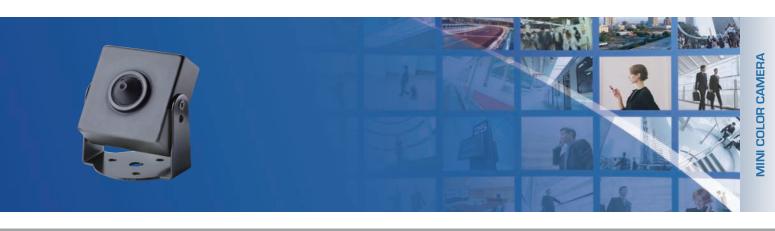
- 1/3" Sony Super HAD Color CCD Sensor
- Excellent Picture Performance with Hi-resolution (540TVL)
- Apply to Home Security, Office, School, Supermarket,
- Restaurant, Government Building, Bank, Hotel
- Video Output Dual Port (Optional) : BNC & Balun (Balun: extend to 600 meters)

TECHNICAL SPECIFICATIONS

Model	PIR-420	PIR-540		
Lens	4.3	mm		
Color CCD	1/3" Sony Super HAI	O Color CCD Sensor		
System	NTSC	/ PAL		
SYNC System	Inte	rnal		
Number of Pixel	NTSC: 512 (H) x 492 (V) NTSC: 768 (H) x 494 (V) PAL: 512 (H) x 582 (V) PAL: 752 (H) x 582 (V)			
Resolution	420 TV Lines 540TV Lines			
Minimum Illumination	0.1 Lux			
S / N Ratio	More that	an 48 dB		
Electronic Shutter	1/60 (50) to 1 / 100,000 sec.			
Gamma Correction	0.45			
White Balance	Auto (ATW)			
AGC	Automatic			
BLC	Autor	matic		
Current Consumption	80mA ± 10%			
Working Voltage	DC 12V-18V			
Video Output	1.0 Vp-p Composite, 75Ω			
Video Output Dual Port	Optional			
Scanning Frequency	15.734 KHz (H), 59.94 Hz (V) (NTSC)			
Operation Temperature	-10°C ~ 60°C			

· Specifications are subjected to change without prior notice.

MINI COLOR CAMERA



- High quality picture, aesthetic and easy to install
- Auto Gain Control (AGC)
- Auto exposure (AE)
- Aperture Correction
- Anti color rolling

ACCESSORIES



RS-485 CONTROL



TECHNICAL SPECIFICATIONS

Model	MC-600	MC-600-R	
Image Device	1/3" Sony CCD sensor		
	NTSC: 768(
Number of Pixels	PAL: 752(h		
Horizontal	More than 6	00 TV Lines	
Scanning System	2:1 Int	erlace	
Sensitivity	0.5 Lu	x F2.2	
Synchronization	Inte	rnal	
S/N Ratio	More than 48dB		
Gamma Correction	0.45		
Electronic Shutter	Auto and up to 1/100,000		
Lens	3.7 mm Pinhole Lens (Option: 2.5mm, 3.6mm, 4.3mm, 6mm)		
Auto White Balance	ATW with MCT TECHNOLOGY (MULTI-COLOR TEMP)		
Auto Gain Control	Full Auto		
Backlight Compensation	On		
Power Supply	DC 12V (-/+10%)		
Power Consumption	85mA ±10% under DC 12V		
Storage Temperature	-30°C +60°C		
Storage Temperature	-10°C +45°C		
Dimension	32 mm (L) x 32 mm (W)		
Weight	120 g		

[·] Specifications are subjected to change without prior notice.

VEHICLE CAMERA RECORDER



- 2 camera in flexi-joint structure to easily adjust the camera angle when installed inside the car
 Fully equipped SD slot for continued memory of incidents
 Fully equipped GPS module to find the location of the vehicle, recorded time and speed of the car can be easily updated with the provided software and vehicle movements can be tracked from Google maps
- Impact of a vehicle is detected and recorded with built in G-shock sensor.
- User can immediately recognize the current operation
- status with voice announcement
 Internal Microphone built in
 Using car battery recharger to maintain full operation.

TECHNICAL SPECIFICATIONS

Model	CR-M268IR CR-M231		
Image Sensor	1/4"		
Pixel	656 x 496		
LEDs	Options		
Lens Angle	Internal: 168(D), 129(H), 94(V) Wide: 116(D), 92(H), 68(V) External: 68(D), 58(H) x 42(V) Tele: 31(D), 24(H), 18(V)		
Audio recording	Internal Mic		
Voice Announcement	internal speaker 0.3W		
Storage	SD memory Card (2GB-32 GB)		
GPS	Internal GPS module		
G-sensor	Internal 3D "G" sensor		
Operating Temperature	- 20°C - +70°C		
Power Consumption	DC12V - 24V		
Dimension:	89mm x 117mm x 52mm		
Weight	122 g.		

· Specifications are subjected to change without prior notice.

ANTENNA



WM-24AN3W

2.4GHz Omni Directional Celling Antenna 3dBi



FEATURES

- Frequency Range: 2.35 ~ 2.5 GHz
- Connector: RP-SMA male
- Swivel Range: 0°, 45°, 90°
- Size: Ø10 x 112 mm
- Weight: 10 g

WM-24AP18

2.4GHz Hi-Gain directional antenna +18db



FEATURES

- Waterproof plastic housing
- Suitable for external use
- Connector: N type female
- Fixing bracket supplied
- 18dB Gain
- Weight 900gm
- Dimensions: 263 x 263 x 30mm

WM-24YG

2.4GHz Hi-gain Yagi Directional Antenna 18dBi



FEATURES

- Frequency Range: 2.4 ~ 2.5 GHz
- Connector: N type female
- Boom length: 550 mm
- Weight: 500 g
- Water proof: IP68
- Operating Temp.: -20°C ~ +60°C
- Storage Temp.: -30°C ~ +70°C

WM-24AG

2.4GHz Hi-gain parabolic directional antenna



FEATURES

- Max Gain: +10 dB
- Connector: SMA Female
- Operating frequency 2300 2500MHz
- Impedance: 50 Ohms
- Max I/P 50 Watts
- Beam Width: 9.5° Horiz
- Dimensions (mm): 275 x 125 x 90
- Weight: 420gm
- Application external up to 1W Transmitter

WM-24AP-H

2.4GHz Hi-gain directional Antenna 14dBi W/Water proof Box & Bracket



FEATURES

- External use
- Gain: 14dBi
- Water proof: IP66
- Plastic housing complete with fixing bracket
- Size: 256 x 226 x 88.5 mm

WM-24AN5W

2.4GHz Omni Directional Antenna 5dBi



FEATURES

- Frequency Range: 2.35 ~ 2.5 GHz
- Connector: RP-SMA male
- Swivel Range: 0°, 45°, 90°
- Size: Ø13 x 196 mm
- Weight: 30 g

ANTENNA



WM-24ANC4

2.4GHz Omni Directional Celling Antenna 4dBi



FEATURES

- Connector: SMA male
- For 2.4GHz wireless cameras and receivers
- Frequency Range 2.4~2.4835 GHz
- Size: 130 x 130 x 42 mm
- Weight: 146 g

WM-24AN9

2.4GHz Omni directional antenna 9dB gain



FEATURES

- Connector N type male
- 9dB gain
- Size 22 x 610mm
- Weight 900g

WM-24AN12

2.4GHz Omni directional Antenna 12dBi



FEATURES

- Connector: N type male
- Size :24 x 1210mm
- Weight :1150g

2.4G 1W HIGH POWER VIDEO+AUDIO TRANSMITTER AND RECEIVER



KEY FEATURES

TRANSMITTER

- 2.4 GHz 4CH TX module
- 1.0 W output
- Video scramble
- Transmits AV up to 1000M (Light-of-sight)
- ID addressing
- 5dBi high gain antenna
- 4 Channel selectable by switch
- Connect any camera or video signal to transmitter
- To extend the range via others high gain antenna
- Housed in a metal case
- DC 12V / 750mA output

RECEIVER

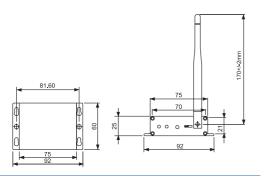
- 2.4 GHz 4CH TX module
- 1.0 W output
- Video scramble
- Transmits AV up to 1000M (Light-of-sight)
- ID addressing
- 5dBi high gain antenna
- 4 Channel selectable by switch
- Connect any camera or video signal to transmitter
- To extend the range via others high gain antenna
- Housed in a metal case
- DC 12V / 750mA output

TECHNICAL SPECIFICATIONS

Madel	WM-1000VHTR			
Model	TRANSMITTER	WM-1000VHTR RECEIVER		
Lens	2.4GHZ 1W High Power Video+ Audio Transmitter	2.4GHZ Video +Audio Receiver		
Frequency Channels	annels 2352 ~ 2524 MHz, CH1: 2413MHz, CH2: 2432MHz, In –band or outband each 4-CH CH3: 2451MHz, CH4: 2470MHz			
TX Power	1.0W	10mW		
RF Impedance	50 Ω Typical	50 Ω Typical		
Video Input/ Output	1.0 Vp-p Composite @ 75Ω	1.0 Vp-p Composite @ 75Ω		
Audio Input/Output	2.0 Vp-p Max. (600Ω)	2.0 Vp-p Max. (600Ω)		
Alarm	Level Detection (5V TTL)	NC/NO/COM		
Power Consumption	DC 12V/390mA (Start-up Current: DC 12V/650mA)	DC 12V/250mA		
Operation Temp.	-10°C ~ 50°C	-10°C ~ 50°C		
Storage Temp.	-30°C ~ 85°C	-30°C ~ 85°C		
Dimensions	110 x 88 x 30mm (without Antenna)	110 x 88 x 30mm (without Antenna)		

[·] Specifications are subjected to change without prior notice.

MECHANICAL DIMENSION



CAMERA LENS











TECHNICAL SPECIFICATIONS

Model		FLVD0538-R
Focal Length (mm)		3.5 ~ 8
Aperture (D/f	7)	1/1.4
Mount		CS
Format (inch)		1/3"
Horizontal Fi	eld	80° ~ 36
	Focus	Manual
Operation	Zoom	Manual
	Iris	AUTO (DC)
Dimension (mm)		33 x 47 x 45
Weight (g)		95
M.O.D. (m)		0.2

Model		FLVD2812-R
Focal Length	(mm)	2.8 ~ 12
Aperture (D/	f)	1/1.6
Mount		CS
Format (inch)		1/3"
Horizontal F	ield	92° ~ 24°
	Focus	Manual
Operation	Zoom	Manual
	Iris	AUTO (DC)
Dimension (mm)		37.5 x 46 x 61.5
Weight (g)		120
M.O.D. (m)		0.2

Model		FLVD0660-R
Focal Length (mm)		6~60
Aperture (D/	f)	1/1.6
Mount		CS
Format (inch)		1/3"
Horizontal Field		44° ~ 4.4°
	Focus	Manual
Operation	Zoom	Manual
	Iris	AUTO (DC)
Dimension (mm)		37.5 x 46 x 70
Weight (g)		130
M.O.D. (m)		0.3

Model		FLVD0359-R
Focal Length (mm)		3.5 ~ 9
Aperture (D/f)	1/1.2
Mount		CS
Format (inch)		1/3"
Horizontal Field		80° ~30°
	Focus	Manual
Operation	Zoom	Manual
	Iris	AUTO (DC)
Dimension (mm)		29 x 43 x 42.9
Weight (g)		66
M.O.D. (m)		0.3

• Specifications are subjected to change without prior notice.

SERVICE KIT MONITOR





TECHNICAL SPECIFICATIONS

Model	CLSM-411
Display Size	4"
Active Area	82.1(W) x 61.8(H) mm
Resolution	480 x 234 (High)
Contrast Ratio	150:1
Brightness	250cd / m2
Video System	NTSC / PAL
Power Source	DC12V 500mA
Video Input	1V p-p 75 ohm, RCA x 2
Audio Output	1 V p-p 10K ohm x 1
Audio Input	5W Max.
Power Consumption	-20°C ~ 80°C
Storage Temperature	0°C ~ 60°C
Dimension	139 x 115 x 36 mm
Accessory Included	Rechargeable Battery, Carrying Case, RCA to BNC Plug

· Specifications are subjected to change without prior notice.

Video cable 1M

POCKET CCTV TESTER



PM-2502U

Video Tester

- CCTV Video field monitor, 2.5" LCD Monitor. With brightness, contrast, chroma adjustable

PTZ Controller

- With 2400 bps, 4800 bps, 9600 bps, 19200bps communication baud rate selectable via OSD menu
- With Pelco-D, Pelco-P etc. protocols selectable via OSD menu, strong compatibility with most of the PTZ cameras, Pelco-Coaxitron added, make testing easier for connecting only video cable to transmit both video and digital signal
- Camera address selectable from 1-255
- Can display the PTZ camera OSD menu and set all the PTZ functions With up, down, left right direction key and Iris open, close, focus, far, near, Zoom tele wide keys for the PTZ control

PTZ Command Analyzer

Receive PTZ code so that user can analyze the PTZ command

Network Cable Tester

With a RJ45 testing terminal (equipped in the package), can test the network cable status, LED display and wrong information display on the screen for 8 pins connection

RS485 Polarity Tester

Can test the RS485 data cable polarity, display on the LCD screen with + or -

Package Includes - CCTV Tester

- UTP test terminal
- Necklace User Manual 2pcs Rechargeable Li Battery
- DC12V 2A Power adapter

General Information

- Work Temperature: -30°C---+70°C
- Work Humidity: 30%-90%
- Dimension: 170mm x 90mm x 45mm
- Inner box: 22.5 x 21.5 x 8.5cm
- Package: 10pcs /carton, 44 x 26.5 x 42cm / 7.8kg

DVX-9000HD SERIES H.264 FULL D1 DVR



KEY FEATURES

Support 32CH D1 real-time recording

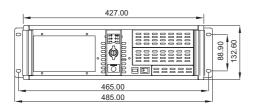
- H.264 Hardware Compression
- Multiple and configurable channels display on CCTV monitor
- 6 smart detections & 10 instant responses
- Multifunction playback with intelligent search
- E-map and GUI recording schedule
- POS and I/O device integration
- Triple monitor display
- Remote live viewer, playback, backup, I/O control, desktop configuration
- Digital PTZ and multiple viewer
- Built-in DVD-RW support backup on DVD/CD directly
- Up to 64 sensors in / relay output
- Support up to 5 HDDs inside
- Multiple languages

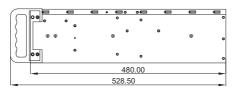
TECHNICAL SPECIFICATIONS

Model	DVX-9008HD	DVX-9016HD	DVX-9032HD
Video Input	8	16	32
Audio Input	8	16	32
Sensor Input / Relay Output	4 in / 4 out or 16 in / 16 out		
Compression Standard		H.264	
VGA Output	32 Bit True Color		
Live Display Frame	240 fps	480 fps	960 fps
Video Recording Frame	240 fps	480 fps	960 fps
Video Resolution	NTSC: 176 x 120, 352 x 240, 704 x 480 PAL: 176 x 144, 352 x 288, 704 x 576		
Communication Protocol	TCP/IP, DHCP, PPPoE		
Backup Function	Internal SATA hard disk		
	SCSI / USB interface HDD / CDRW / DVD-RW		
Language	English / Chinese / France / Germany / RussianSpain / Greek / Italian / Portuguese		
Redundant Power Supply	100V ~ 240VAC, 500W Auto Switch		
Size	53cm(L) x 48.3cm(W) x 13.2cm(H)		

[·] Specifications are subjected to change without prior notice.

MECHANICAL DIMENSION







POS BOX

ACCESSORIES

SOFTWARE SPECIFICATIONS

Intelligent Video Analytics

Support video analytics including general motion, missing object, camera occlusion, foreign object, focus lost and signal lost

GUI Recording Schedule

Intuitive GUI recording schedule featuring continuous recording, motion recording. User can easily define the recording schedule for each camera

Web-browser (client)

Display up to 64 channels of live video stream or 16 channels of playback in I.E.

Triple Monitor

Up to 64 channels of live view video can be displayed per monitor. Monitor 1 and monitor 2 can both display live view video or act as alarm monitor while the 3rd monitor can be used for playback

Bandwidth Monitor

Monitor and display the bandwidth usage of individual cameras and remote viewing clients.

E-Map Function

For easy locating the triggered alarm of cameras and I/O on the map

3G Service:

Support mobile device through 3G network via PDA viewer in the package

User-Friendly Interface

GUI recording schedule, camera drag and drop, I/O control menu and PTZ control menu

Counting Application Intelligent 2-way (in and out) counting of object, people and traffic Auto Recycle: Automatically recycle recording files when the storage is full. Separate recycle schedule between recordings and varies log files

Monitor Resolution

Supports 1024x768, 1200x900, 1280x1024, and 1600x1200 screen resolutions

Protect for original recording from alternation with watermark verification tool

Instant alarm notification

is the fastest and most cost efficient way to automatically respond to any smart detection event.- 10 automatic instant alarm responses

- · On Screen Display
- Play Sound
- Send E-mail
- Phone Call
- PTZ Preset Go
- Signal Digital Output · Send a SMS message
- · Send to Central Server
- · Send Snapshot to FTP
- · Popup E-Map on Event

H.264 INTELLIGENCE DVR CARD



PC BASED DVR



KEY FEATURES

Supports megapixel IP cameras

- Supports H.264 compression format
- Triple monitor display
- Support for standard (4:3) and wide screen display (16:9, 16:10)
- Supports Joysticks
- E-map
- Instant Playback
- Two-way audio
- Unique GUI recording schedule
- Digital PTZ and multi-view
- Smart detection of 6 events with 10 instant responses
- Counting application
- Intelligent playback system with 5 video analytics searches
- POS and I/O device integration
- Up to 128 channels remote live view
- Supports transcode and multiple stream profiles
- Supports digital watermark
- Remote playback, remote backup, remote I/O control and remote desktop configuration
- Supported by Central Management System (CMS)
- Supports 49 brands of IP cameras and over 1000 models
- Supports 24 languages
- Supports Windows mobile , iPhone and BlackBerry clients
- Supports video looping output by HDMI and RCA only for CP-7108, CP-7116

ACCESSORIES



POS BOX

Model		CP-7108	CP-7116	CP-3004H	CP-3008H	CP-3016H	CP-8004
Video Input		8	16	4	8	16	4
Audio Input	Audio Input		16	4	8	16	-n/a
Maximum Cards		1 Card	1 Card	4 Cards	4 Cards	2 Cards	8 Cards
Maximum Channe	ls	8	16		32		64
D: 1 D 1	NTSC	240 fps	480 fps	120 fps	240 fps	480 fps	
Display Rate	PAL	200 fps	400 fps	100 fps	200 fps	400 fps	
Recording Rate	NTSC	240 fps	480 fps	120 fps	240 fps	480 fps	120 fps @720P
@CIF	PAL	200 fps	400 fps	100 fps	200 fps	400 fps	120 fps @1080p
Recording Rate	NTSC	240 fps	480 fps	120 fps	240 fps	480 fps	
@D1	PAL	200 fps	400 fps	100 fps	200 fps	400 fps	
Males Basel Co.	NTSC	704 x 480;352	x 240;176 x 120	704 x	480;352 x 240;17	6 x 120	720P, 1080p
Video Resolution	PAL	704 x 576;352	x 288;176 x 144	704 x 576;352 x 288;176 x 144		720P, 1080p	
TV Output Rate		w/o HDMI:	& HDMI: 10fps RCA: 25fps HDMI: 14fps	None		None	
Compression Format		Hardware Com	pression H.264	Hardware Compression H.264		Hardware Compression H.264	
Interface		PC	CI-e	PCI-e			PCI-e x1
Available I/O Box		Support					
Hardware Watchdo	og				Support		
Dimension (mm)		167 (W) x 121 (H)	167 (W) x 121 (H)	167 (W) x 121 (H)	167 (W) x 121 (H)	216 (W) x 126 (H)	178 (W) x 126 (H)
System Minimum I	Requireme	ent (per card)					
OS Supported		Windows 7 / Windows 2008 server					
CPU		Intel	i3 540	Intel i3 540 Intel i3 540			
RAM		2GB Above RAM amount is recommended based on one DVR card installation. For system with multiple DVR cards stacked 1G RAM for system under 16ch 2G RAM for system under 32ch and 3G RAM for system with 32ch or above are recommended.					
HDD		250 GB					
Mother-board		Intel P45 or P43 chip or above MB vendor ASUS Gigabyte or MSI with Intel Chipset recommended					
Display		Win7: ATI Radeon 3850/4850 are recommended					

For stability reason we strongly recommend to apply a desktop with a system fan when using CP-7108, CP-7116, CP-3004H,

^{**} Any combination of CP-7108, CP-7116 cards is possible with a limitation on the maximum 32 analog to be manage on single machine, and video looping maximum up to 16 channels

[•] Specifications are subjected to change without prior notice.

H.264 INTELLIGENCE DVR CARD





- Open Platform: Supports over 1000 models of IP cameras, megapixel cameras and video servers from 49 brands of network camera manufacturers; supports H.264, MPEG-4, MJPEG, MxPEG video formats; integrates various systems including point of sale (POS) and I/O devices, SDK for access control integration available upon request.
- Multi-site/Multi-server: Supports up to 64 channels, from IP cameras and video encoders with analog cameras, and can be managed by CMS or remote live view client for centralized management in multi-site projects.
- *The maximum number of camera connections depends on the server's hardware configuration and the total bit rate of the IP cameras. Please check with technical support for calculation
- Multiple Video Clients: can stream video to multiple Remote Live Viewers, web clients and mobile clients simultaneously.
- Intelligent Video Analytics: FINE IVS supports 6 types of video analytics including general motion, missing object, camera occlusion, foreign object, focus lost and signal lost. Each IVS alarm can trigger up to 10 unique instant notifications.
- Intelligent PTZ: Joystick support on PTZ cameras and software enabled digital PTZ function are both available in FINE DVX series, NVR-2U series. Preset points and patrol functions are also available on many camera models.
- GUI Recording Schedule: Intuitive GUI recording schedule featuring continuous recording, motion recording and the 6 unique event recording modes. Users can define the recording schedule for each camera on a day by day basis.
- Triple Monitor: Up to 64 channels of live view video can be displayed per monitor. Monitor 1 and monitor 2 can both display live view video or act as alarm monitor while the 3rd monitor can be used for playback
- *The maximum number of camera connections depends on the server's hardware configuration and the total bit rate of the IP cameras. Please check with technical support for calculation
- Transcoding: Record and display live video at different frame rate and resolution.
- Advanced E-Map: Capability to import custom image file, place the cameras and I/O on the map to indicate where events are being triggered with a convenient video preview window.
- User-Friendly Interface: GUI recording schedule, camera drag and drop, I/O control menu and PTZ control menu.
- Automatic Camera Model Detection: automatically search for all available IP cameras within the network (camera must support UPnP protocol). For cameras that don't support UPnP, users can manually insert the IP camera. The auto detection function will help the user to find the brand and model of the camera after specifying its IP address.
- Counting Application: intelligent 2-way (in and out) counting of object, people and traffic.
- User Authority Management: Support unlimited number of users with detailed and fully customizable user privilege on each user.
- Network Flow Monitor: Data streaming bandwidth of each remote client connection to the FINE DVX series, NVR-2U series. can be monitored and blocked if flow rate is too high.
- Auto Recycle: Automatically recycle recording files when the storage is full. Separate recycle schedule between recordings and varies log files.
- Integration Support: Open SDK for integration with third-party systems such as access control, automation, burglar alarm, video analytics and others.

- Multi-view: FINE DVX series, NVR-2U series can duplicate the same live view video onto multiple channels and digitally zone in to see the details of different spots on cloned channels without losing the original live view video.
- Intelligent PTZ: Joystick support on PTZ cameras and software enabled digital PTZ function are both available in FINE DVX series, NVR-2U series. Preset points and patrol functions are also available on many camera models.
- Monitor Resolution: Supports 1024x768, 1200x900, 1280x1024, 1440x900, 1600x1200, 1680x1050, 1920x1080, 1920x1200 screen resolutions
- Advanced E-Map: Freedom to import custom image file, place the cameras and I/O on the map to indicate where events are getting triggered with a convenient video preview window.
- Bandwidth Monitor: Monitor and display the bandwidth usage of individual cameras and remote viewing clients.
- Two-way Audio: Listen and record audio from camera's microphone. Talk to IP camera's speaker.
- Instant Playback: Allow to play the last few minutes of any live video channel on Main Console and Remote Live View

Playback, Search, Export and Secure data

- Post-Recording Processing: Search for 5 types of different analytics events, digital PTZ and video enhancement tool are all available in playback.
- Multi-Channel Playback: Play up to 16 channels of recorded video simultaneously both locally and remotely.
- Video Enhancement: Fine tune the image's visibility, sharpen, brightness, contrast or even grey scale.
- Intelligent Search: Search for 5 different special events (general motion, missing object, foreign object, camera occlusion and signal lost) in recorded files with date, time and log file.
- Video Export: Take a snapshot of the recording in JPEG/BMP format or export a section of the video in "AVI" and "ASF" format.
- Backup: Backup the recording for archiving purposes or backup the recording with an embedded player to watch at a separate location. NVR supports both local and remote backup to local HD, CD, and DVD.
- Log data: Unusual event, system log, counting application, POS log and export and backup can export to "xls" or "txt" file
- $\bullet \ \text{Watermark: Protect for original recording from alternation with our watermark verification tool.}\\$
- DBTool: Reconstruct, repair or relocate the recordings in local drive, or external drive.

Remote operations

- Multiple Live View Display: Streaming live video from multiple FINE DVX series, NVR-2U series simultaneously. Dual monitors support with up to 128 channels per monitor (64 channels per monitor). *The maximum number of camera connections depends on the server's hardware configuration and the total bit rate of the IP cameras. Please check with technical support for calculation
- Multi Playback Channels Display: Remote playback of 16 channels recording from any one of the FINE DVX series, NVR-2U series.
- Intelligent PTZ: Joystick support on PTZ cameras and software enabled digital PTZ function are both available in FINE DVX series, NVR-2U series. Preset points and patrol functions are also available on many camera models.
- I/O Event Control: Easy to use input and output control panel to remotely trigger digital outputs and monitor input status.
- E-Map: A map view of where each camera and I/O devices are located with a convenient preview window.
- Two-way Audio: Listen and record audio from camera's microphone. Talk to IP camera's speaker.
- Remote Backup: Backup the video into .DAT format with a player attached for easy achieve and viewing purposes.
- Web-browser (client): Display up to 64 channels of live video stream or 16 channels of playback in I.E. from any single FINE DVX series, NVR-2U series.
- PDA Viewer: Up to 16 channels snapshot or 1 channel live display; PTZ and I/O control.
- iPhone: Support iPhone application client and browser client (safari) to live view video and control PTZ functions
- BlackBerry: Support BlackBerry application client to live view video and control PTZ functions.

Extension Service

- Central Management System: Ultimate central monitoring solution for grand scale projects and projects with multiple sites. Fully compatible with all FINE DVX series, NVR-2U series.
- Remote Desktop Service: Embedded remote desktop server that will host for any remote desktop clients to remotely configure the NVR software (remote desktop client is installed separately).
- 3GPP Service: FINE DVX series, NVR-2U series supports mobile devices through 3G network to stream live view video.

H.264 INTELLIGENCE DVR CARD





External Device:

- Point of Sale (POS): Point of Sales system works on FINE DVX series, NVR-2U series by overlaying the transaction text from cash register onto live video channels. All POS recordings are
- External I/O capacity: Please refer to our I/O box section: CP-SIO4, CP-SI16, CP-SO16.
- ImmerVision Lens: Lens supported.

Smart Guard:

- Smart detection of 6 camera events, 14 different user-defined POS events, digital input events and 4 system events. The combination of our smart guard events is a powerful tool to combat vandalism and provide a platform for operators to monitor and respond to live events immediately.
- Camera Events:
- · General Motion
- · Missing Object
- · Foreign Object
- Focus Lost
- · Camera Occlusion
- · Signal Lost
- Signal Digital Input Event
- System Event:
- \cdot System alarm on Disk Space Exhausted
- · System alarm on System Health Unusual (CPU temperature)
- · System alarm on Resource Depleted (CPU loading)
- · System alarm on Network Congestion

- Instant alarm notification is the fastest and most cost efficient way to automatically respond to any smart detection event.
- 10 automatic instant alarm responses:
- $\cdot \text{ On Screen Display} \\$
- · Play Sound
- · Send E-mail
- · Phone Call
- · PTZ Preset Go
- · Signal Digital Output
- · Send a SMS message
- · Send to Central Server
- · Send Snapshot to FTP
- · Popup E-Map on Event

		Support La	inguage			
Chinese (Simplified)		Chinese (Traditional)	Czech		Danish	
English		Finnish	French		German	
Greek		Hebrew	Italian		Japanese	
Korean		Norway	Polish		Portuguese(Brazil)	
Portuguese(Portug	al)	Russian	Serbian		Slovak	
Spanish		Swedish	Thai		Turkish	
		IP Camera Brand	(s) Supported			
	FINE	ACTi	ARM	Atlantis	Axis	
	Basler	Bosch	Brickcom	Camtron	Cisco	
	CNB	Digimerge	D-Link	Dynacolor	ENEO	
IP Camera Brand(s)	Etrovision	EverFocus	HIKVision	IQinvision	JVC	
Supported	Hitron	Honeywell	Icantek	Lumenera	Mobotix	
	LevelOne	Linksys	Lorex	Pelco	Pixord	
	Moxa	Onvif	Panasonic	Santec	Sanyo	
	Planet	Samsung				
	Seorim	Sony	StarDot	Toshiba	Truen	
	Videosec	Vivotek	Y-cam	Zavio	Arecont	

User Interface







- Live - Playback - I.E

POS BOX SOLUTION



KEY FEATURES

- Support all FINEST NVR/DVX/NDVR system
- Up to 64 POS system
- Transaction data overlay on multi-channels
- Record Transaction data
- Smart detect and Immediate reaction of pre-defined special keyword of abnormal transaction
- External rule of user defined event evelop with POS alarm SDK
- POS Event Log search for pre-defined event
- Smart search for special keyword and playback recording video with transaction data
- Microsoft Access format Database of transaction data

TECHNICAL SPECIFICATIONS

Model	POS BOX SOLUTION		
Input	RS232		
Output	Ethernet		
DC In	DC +10V to +15V		
Power consumption	500 mA		
Operating Temperature	-20 to 65°C		
Operating Humidity	0-90 % Non-Condensing		
Baud Rate	110 bps to 230.4 kbps		
Data Bits	5, 6, 7 or 8		
Stop Bits	1, 1.5 or 2		
Parity	None, Even, Odd, Mark, Space		
Flow Control	None, RTX/CTS, XON/XOFF, DTR/DSR		

· Specifications are subjected to change without prior notice

SOFTWARE SPECIFICATIONS

- Live Transaction Overlay

 Up to 64 POS or Cash Register
 Transaction video Overlay display on multi associated cameras
 User defined POS OSD setting
 Flexible user defined overlay areas of different associated cameras
- User definition transaction display time.

POS Transaction Filed Filter

- User defined Tag filed filter
 Export/Import Tag filter to/from the other FINEST system
- Six transaction definition tool
 Omit: Neglect the text of transaction which is meaningless or not important
- Substitute: Use another word(s) to replace the selected text
 Add New Line: Define the selected text as a symbol to change a new line
- Start: Define the selected text as a symbol which means a transaction begins
 End: Define the selected text as a symbol which means a transaction ends
- Cash Register Opened: Define the text as a symbol which means the cash register is open
- Unlimited user definition for each filter.

Smart Detection

- Smart detection of 4 POS Event Log
- Transaction Start: Detect any transaction beginning defined in filter
 Transaction End: Detect any transaction ending defined in filter
- Open Cash Register: Detect any cash register opening defined in filter
 User Defined Condition: Detect up to 10 conditions of special words or numbers which are defined by user for transaction data of each POS device
- Connection Lost: The basic function to alarm when network of POS device disconnecting.

- Immediate reaction for POS event detection
 - On Screen Display
- Play Sound
- Send E-mail
- Phone Call
 PTZ Preset Go
- Signal Digital Output
 Send a SMS message
- Upload to FTP
- Popup E-Map

Recording, Playback & Search

- Start recording video when POS event log detected
 Basic search of smart detect POS event log to view recording video of associated camera or export to excel for statistic
- Advanced search POS transaction data for any special texts and overlay on recording video.
- Backup video with POS transaction data and event log.
 Independent period to keep transaction data without recycle with video when disk full

- Remote search transaction data and overlay on recording video
- Remote search POS event log
- Remote backup POS transaction data

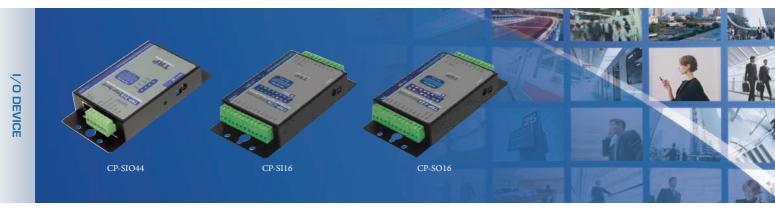
Other

- Store all transaction data in Microsoft Access format for retroactive analysis
- Support all FINEST NVR/DVX/NDVR system to extend POS to surveillance solutions System

APPLICATION DIAGRAM



I/O DEVICE FOR H.264 HYBRID & **IP SURVEILLANCE SYSTEMS**



CP-SIO4 provides with 4 optical isolated digital input channels and 4 power relays output. All channel features screw terminals for convenient connection of field signals as well as LED's to indicate channel status. CP-SIO4 can be easily control by SP-RS001 (RS-232 to RS-485 converter).

TECHNICAL SPECIFICATIONS

Model	CP-SIO44
Output	Ethernet
DC In	DC +10V to +15V
Power consumption	500 mA
Operating Temperature	-20 to 65°C
Operating Humidity	0-90 % Non-Condensing
Baud Rate	110 bps to 230.4 kbps
Data Bits	5, 6, 7 or 8
Stop Bits	1, 1.5 or 2
Parity	None, Even, Odd, Mark, Space
Flow Control	None, RTX/CTS, XON/XOFF, DTR/DSR

Specifications are subjected to change without prior notice.

CP-SI16 provides 16 optical isolated digital output channels that allow you to output open collector signal to driven your devices on RS485 network. All channel features screw terminals for convenient connection of field signals as well as LED's to indicate channel status. All inputs are equipped with photo-couplers to protect the module against high voltage spikes and ground potential differences. It can be easily control by SP-RS001(RS-232 to RS-485 converter).

TECHNICAL SPECIFICATIONS

Model	CP-SI16		
Output Channel	16 digital output channels		
Communication Interface	DC +10V to +15V		
RS-485 differential 2 half / duplex wires	500 mA		
Communication Speed	Baud rate from 1.2 Kbps to 115.2 Kbps		
Transmission distance	RS485 Up to 4000ft (1200M).		
Signal LED	Power on, all output channels		
Dual watchdog	Reset circuit module / Host operating status		
Power supply	Screw terminal, or external DC adapter		
Power consumption:	1.5W		
Dimension	151 x 75 x 26 mm		

[·] Specifications are subjected to change without prior notice.

CP-SO16 provides 16 optical isolated digital input channels and all of them can be used as counter. All channel features screw terminals for convenient connection of field signals as well as LED's to indicate channel status. All inputs are equipped with photocouplers to protect the module against high voltage spikes and ground potential differences.

TECHNICAL SPECIFICATIONS

Model	CP-SO16		
Input Channel	16 digital input channels with counter		
Counter Channel/Frequency	16 / 100Hz		
Communication Interface	500 mA		
RS-485 differential 2 half / duplex wires	Baud rate from 1.2 Kbps to 115.2 Kbps		
Communication Speed	Baud rate from 1.2 Kbps to 115.2 Kbps		
Transmission distance	RS485 Up to 4000ft (1200M).		
Signal LED	Power on, all input channels		
Dual watchdog	Reset circuit module / Host operating status		
Power supply	Screw terminal, or external DC adapter		
Power consumption	1.5W		
Dimension	151 x 75 x 26 mm		

· Specifications are subjected to change without prior notice.

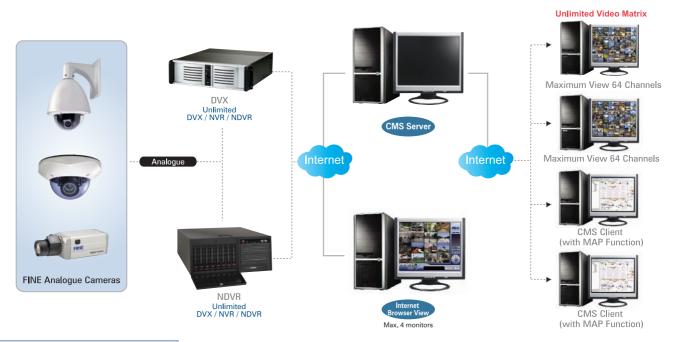
CENTRAL MANAGEMENT **SYSTEM (NCS)**





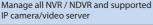


SOFTWARE BLOCK DIAGRAM





Manage all NVR / NDVR and supported





Up to 64 concurrent live camera viewing for each video matrix



Intuitive EMap GUI to indicate all the alarms



This seamless management of digital video, audio and data is a powerful solution for large scale installations

The Central Management System (NCS) is a powerful system designed for large-scale and high level enterprise projects. CMS can manage all product lines including NDVR Hybrid, NVR, DVR and NVRmini. The NCS supports unlimited cameras, I/O device, POS, servers and users. The controls and operation of CMS is clear cut and map centric. It has the most powerful alarm management system among all product lines and can control unlimited matrices viewing consoles in the centralized control room. NCS Matrix offers a video wall for users to get video and manage alarm efficiently and instantly.

KEY FEATURES

- Authentic client-server architecture
- Centralized management
- Supports all recording servers (NDVR, NVR, DVR and NVRmini)
- Supports unlimited cameras, I/O devices and POS
- Supports unlimited display matrices for remote live view with PTZ and joystick control
- Supports unlimited layers of E-map
- Supports H.264, MPEG4, MJPEG, and MxPeg video compressions
- Supports IP cameras, megapixel cameras and video servers
- Device groups
- Advanced GUI alarm management
- Alarm status, data mining and reporting function
- Instant playback
- Remote backup
- Embedded remote desktop access to any servers (NDVR, NVR, DVR and NVRmini)

SYSTEM OVERVIEW

Component	Description
Overview	Access and control unlimited cameras, I/O devices and POS from any recording servers (NVR/DVR/NDVR Hybrid and NVRmini). SQL Server 2005 Express Database.
Client - Server Architecture	Unlimited clients and multi-monitor support. Clients support popup live window and instant playback, remote playback, embedded remote playback application and smart search in playback for special events.
Е-Мар	Tree structured map layout supporting unlimited maps layers. Intuitive GUI indica tor of cameras, I/O devices, POS and server locations.
Alarm management	Real-time alarm management supporting up to 45 alarm types, 6 video analytic events, alarm status, priorities and independent alarm coverage, data mining tool and much more.
Central Management &	Assign different levels of privilege to access server, camera, alarm, log and much more to each user account and user group. Built-in "remote desktop configure" can remotely configure any NVR/DVR/NDVR.
Display Matrix	Unlimited video matrices supporting up to 64 channels of video display per monitor.

CENTRAL MANAGEMENT SYSTEM (NCS)



Display mode with E-Map support Navigation design for zoom in/out



Alarm Live Video Pop up notification



Remote Playback Window



Remote Back up Recorded Video



Low Disk Space, Disconnect Servers, Unsuaual System Health Alarm



Remote PTZ control



Advanced Alarm Search

TECHNICAL DETAILS

■ NCS Alarm Server

- · EUltimate recording servers: Centralized management station supports unlimited number of recording servers (NDVR, NVR, DVR
- · EClient/Server architecture: NCS client features popup live window and instant playback, remote playback, embedded remote playback application and smart search in playback for special events.
- ESQL database: Uses SQL Server 2005 Express to store all alarm logs.
- Elnstant alarm notification: Real-time alarm management supporting up to 45 alarm types, 6 video analytic events, alarm priorities and independent alarm coverage, data mining tool and much more.
- EUser management: Assign different levels of privilege to access server, camera, I/O device, POS, alarm, log and much more to each user account and user group.
- ESmart time zones: Central Server is designed to manage servers across different time zones. It features Coordinated Universal Time (CUT) and can translate local time at recording server site into the time zone of central management z station
- · ELicense Management: To register and validate your licenses, the system offers easy-to-use online activation via the Internet and

■ NCS Client

Operator Mode:

- EMulti-Monitor scenarios:
- Monitor 1 E-Map/Navigation panel
- Monitor 2 Alarm panel, event list, remote playback
- Monitor 3-N Live video display matrix
- EMap centric Intuitive operation: All NCS functions are accessible directly from the E-map.
- EAutomatic startup and login: NCS Alarm Server/Client/Matrix can start up and login automatically when the servers restart.
- EAutomatic device synchronization: Automatically synchronize for all of the IP cameras, I/O device and POS in the servers.

- EHierarchical map tree: Tree structured map layout supporting unlimited maps layers.
- ECustom Map Indicators: Recording servers, cameras, I/O devices and POS each have its unique indicators. Operator can place them anywhere on the E-map or even design its own indicator icons.
- Elnstant Alarm Notification: Real-time alarm management supporting up to 45 alarm types, 6 video analytic events, alarm priorities and independent alarm coverage, data mining tool and much more.
- · EIntuitive Map Operations: All NCS functions are accessible directly from the E-map. Security operator can open live video window, instant playback window, remote backup, query alarm, trigger digital output devices, check system status, search POS transaction
- · EUser-friendly E-Map tool: Users can edit maps and servers easily, as well as make use of navigation tool to zoom in and out of the map view, drag and drop the cameras and much more
- EMultiple image formats: Import any image in BMP, GIF, JPEG, PNG, and TIFF formats.

■ Alarm Management

- EPowerful Alarm Management: Real-time alarm management supporting up to 45 alarm types, 6 video analytic events, alarm priorities and independent alarm coverage, data mining tool, alarm note and much more.
- · EAlarm Priority: Assign alarm priorities (critical, high, normal, low) to each alarm to increase the efficiency in response and data mining.
- · EAlarm Coverage: Operator can schedule each alarms to be active at a specific times or time intervals.
- EAlarm Management Guide: Attach an alarm management guide to each of the alarms so the operator knows how to respond to different alarms.
- · EAlarm Notifications: NCS client can play sound, popup live video window, active alarm matrix, send email alarm and SMS message at the moment of an event trigger.
- EPrint Alarm: Client can print out a detailed alarm report with snapshots, alarm guide and timestamp included.
- EPowerful data mining: User can quickly search alarm history by alarm name, operator name, alarm status, alarm priority, time interval, source device, alarm type and keyword search of alarm note.
- EExport Alarm list: User can export alarm history to Excel table.

- ELive Matrix: NCS Matrix stream and display live video from any recording server (NVR/DVR/Hybrid/NVRmini) as commanded by NCS client.
- EMulti-channel live view: Each matrix computer can display up to 64 channels of live video per monitor and supports multi ple monitor display.
- · EDisplay layout: Supports 9 different display layouts
- (1/4/9/12+1/16/25/36/49/64).
- ECamera sequencing (auto scan): Matrix can loop through all the cameras automatically at a specified interval.
- EPTZ Control: Full functional PTZ control panel on the NCS client can be used to pan, tile and zoom the cameras displaying on NCS matrix.
- EAlarm Matrix: Matrix can popup alarmed cameras instantly upon an unusual event on any matrix monitor specified.
- EMatrix Profile: Each user/user group can be assigned to a different matrix profile with specific camera viewing privilege
- ETranscoding: Live display at different frame rate and resolution
- EAudio: Listen live and recorded audio from cameras' microphone through NCS Client.

■ Extension:

Remote Desktop

E Build-in Remote Desktop: Embedded remote desktop tool that can be used to configure any recording servers (NVR/DVR/Hybrid) directly from the central management station.

Remote Playback System

- E Multi-channel Remote Playback: Remote playback of 16 channels recording from any one of the servers (NVR, DVR, NDVR and NVRmini)
- E Layout: Playback in full screen, single channel, 4, 9 and 16 channel simultaneously.
- E Export video: Take a snapshot of the recording in JPEG format or export a section of the video in "AVI" and "ASF" format with digital water mark
- E Smart Search: Search for 5 different special events (general motion, missing object, foreign object, camera occlusion and signal lost) in recorded files with date, time and log file.



CENTRAL MANAGEMENT SYSTEM (NCS)









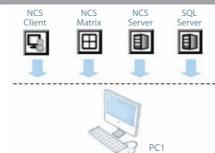
Function	Description
Key Features	
Client Server Architecture	One CMS server could be connected by several CMS clients
Supported Devices	Support all based site, as well as all I/O devices, POS and IP camera brands supported by Main Console v3.2.0 and NAS NVRmini v2.1
Unlimited Server Solution	Unlimited access of cameras and DVR/NVR/NVR-mini sites
Multiple Matrix System	Unlimited matrix consoles could be connected through network
Live Viewing	Up to 64 concurrent camera viewing for each matrix console Acknowledge or manage alarm log in the most efficient wa
Full Alarm Management	Acknowledge or manage alarm log in the most efficient wa
Triple Monitor Scenario	No institut Paral (Mar Cartina
Default Monitor #1 Default Monitor #2	Navigation Panel / Map Section
Default Monitor #2 Default Monitor #3	Live Matrix System
	Alarm List / Message List / Remote Playback
CMS Server	U COLC 2005 F
Alarm Database	Use SQL Server 2005 Express to store all the alarms
	Store the site map data by hierarchical structures
Central Server	Directly connect to surveillance server to get alarm notifications
	Provide TCP service for CMS clients' access through network
Comment of North Control Toron	Registers different time zones into UTC format
Supported Notification Type	Send E-mail / SMS message
E-Map	lune some a contra
Map Tree Hierarchy	Unlimited level of display site map
Maps Formats	Supported image format: BMP, GIF, JPEG, PNG, and TIFF
Define Surveillance Servers	New / Edit / Delete / Disable and Enable
Define Cameras	New / Edit / Delete / Disable and Enable
Navigation Tools	Use to use zoom in, zoom out and drag operation Indicators for maps, servers, cameras, I/O devices and POS
Indicators on Maps	Indicator icons support image format with alpha channel (TIFF) Display camera coverage Easy to find device on Map and Matrix View
Instant Status Notification	show correspondingly small icon nearby the devices auto matically to notify users of the events
Intuitive Operation on Maps	Open Last Alarm Open Live Video Window Open Instant Playback Window Backup Recorded Video View Server Status Report Search POS transaction data
Live Popup Window	Live popup window to use audio function and show live video with PTZ control panel Set stream profile to change video quality
	Snapshot and POS transaction overlay
Playback Popup Window	Remote playback popup window to replay recorded video and audio Export to AVI/ASF file and snapshot with digital watermark
Alarm Management	
	Video Signal Abnormal
	Digital Input Trigger (Normal / Emergency)
	POS Alarm Trigger
	Network Abnormal
Supported Alarm Type	DVR / NVR Abnormal
	Motion / Missing / Foreign / Focus / Blocked
	Low Disk Space
	CPU temperature High / Fan Speed Low
	Instant notifications on map and event list
	Go to specific map layer
	Play sounds
Action when Alarm	Play sounds Automatically show live video on popula window
Action when Alarm	Automatically show live video on popup window
Action when Alarm	Automatically show live video on popup window Automatically show live video on live matrix system
Action when Alarm	Automatically show live video on popup window Automatically show live video on live matrix system Send SMS
	Automatically show live video on popup window Automatically show live video on live matrix system Send SMS Send Email
Action when Alarm Alarm Viewing Alarm Detail Popup	Automatically show live video on popup window Automatically show live video on live matrix system Send SMS

Function		Description	n		
Matrix Syst	em				
Live Viewing	l	Up to 64 con	current came	ra viewing	
Grid Type		1, 4, 9, 12+1,	16, 25, 36, 49,	64	
View Type		Flexible auto	scan mechan	ism and full scre	en viewing
Automatical	ly Popup	Show the live	e video associ	ated with alarm	S
PTZ Panel		Floating PTZ matrix syster		ipulate cameras	on the
Joystick Support Control PTZ camera by Joystick via NCS Client					ent
Remote Pla	ayback System				
Remote Play	back	Up to 16 con	current came	ra viewing	
Grid Type		1, 4, 9, 16			
Export Func	tion	Save as imag	e and video, a	s well as printin	q
Smart Searc		Fast search b	ased on the speral motion, M		
Miscellaned	ous				
		Alarm Manag	gement		
		View Alarm I			
		View Live Vic	leo		
		View Record	ed Video		
UserGroup A	Authority	PTZ Control			
•	•	Control Digit	al Output		
		Remote Desktop			
		View and Search POS transaction			
		Access Devices			
		User/Password			
		Phone Number			
		Email / Phon	e number		
User Author	ity	UserGroup			
		Coverage			
		Matrix Profile			
Built-in Rem	ote Desktop	CMS could control servers through remote desktop protocol			
Matrix Syst	em				
	FINE	Arecont	Atlantis	Axis	Basler
	Cisco	Digimerge	D-Link	Dynacolor	Etrovision
	EverFocus	Eyeview	Vivotek	HIKVision	Hitron
	Icantek	lQinvision	JVC	LevelOne	Linksys
IP Camera Brand(s)	Lorex	Lumenera	Mobotix	Моха	Panasonio (PCC)
Dialiu(S)	Panasonic (PSS)	Pixord	Planet	Samsung	
	Seorim	Sony	Toshiba	Truen	
	Y-cam	Zavio	ACTi	Sanyo	
Camera Format	H.264, MPEG4	, MJPEG, MxPE	G		
Supporting	Language				
Bulgarian	Chinese (Simplified)	Chinese (Traditional)	Danish	English	Finnish
	Portuguese	Spanish			

CMS HARDWARE REQUIREMENT

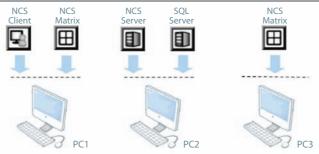
There are three scenarios for CMS system setup. The system requirements for each scenario are detailed below.





Model	PC1
CPU	Intel Core 2 Quad Q6660 @ 2400MHz
RAM	2 GB
Hard Disk	250 GB or above
Mother-board	Intel 945 or 965 chip (for single monitor) Intel P35/975 chip or nVidia nForce 650i chip (for multiple monitors)
Display	ATI X1600 or above, nVIDIA GeForce 7000series or above
Ethernet	100 baseT or above, Gigabit LAN recommended
OS	MS Windows XP Pro SP2 / 2003

SCENARIO B: Using three PCs with CMS Client and CMS Matrix on PC1, CMS Server and SQL SERVER ON PC2, AND CMS Matrix ON PC3



Model	PC1	PC2	PC3		
CPU	Intel Core 2 Quad Q6660 @ 2400MHz	Intel Core 2 Duo E4500	Intel Core 2 Quad Q6660 @ 2400MHz		
RAM	2 GB	2 GB	2 GB		
Hard Disk	250 GB or above	250 GB or above	250 GB or above		
Display	ATi X1600 or above	ATi X300 or above	ATi X1600 or above		
Mother-board	Intel 945 or 965 chip (for single monitor)				
Motrier-board	Intel P35/975 chip or nVidia nForce 650i chip (for multiple monitors)				
Ethernet	100 baseT or above, Gigabit LAN recommended				
OS		MS Windows XP Pro SP2 / 2003			

SCENARIO C: Using four PCs with CMS Client and CMS Matrix on PC1, CMS Server on PC2, SQL Server on PC3, and CMS Matrix on PC4



Model	PC1	PC2	PC3	PC4	
CPU	Intel Core 2 Quad Q6660 @ 2400MHz	Intel Pentium D 2800 MHz	Intel Pentium D 2800 MHz	Intel Core 2 Quad Q6660 @ 2400MHz	
RAM	2 GB	1 GB	1 GB	2 GB	
Hard Disk	250 GB or above	250 GB or above, 250 GB or above, 250 GB or above			
Display	ATi X1600 or above, ATi X300 or above, ATi X300 or above, ATi X1600 or above				
Mother-board	Intel 945 or 965 chip (for single monitor)				
Motilei-board	Intel P35/975 chip or nVidia nForce 650i chip (for multiple monitors)				
Ethernet	100 baseT or above, Gigabit LAN recommended				
OS	MS Windows XP Pro SP2 / 2003				

Multiple Monitor Configuration:

For a PC running the CMS Client and CMS Matrix, it is suggested that three monitors are used: one to display the Map window and the System Configuration window, one to display the Alarm Overview window, and one to display the live video feed matrix. This enables efficient use of the system and saves hardware costs. PCs using multiple monitors in this way should have a Intel P35/i975x motherboard which can support two display cards. Each display card should be the same model, to avoid hardware conflicts.

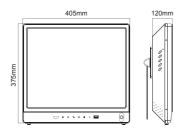
19" 4 CHANNEL DVR **COMBO MONITOR**



• Touch Screen display integrated with LCD for TFDR-1904TH

- NTSC/PAL auto detect
- Supports up to 1280 x 1024SXGA high resolution
- High contrast ratio up to 1000:1
- 4CH DVR with H.264 Video compression
- Provide Graphical User Interface (GUI) and mouse/touch screen for easier and user friendly configuration and operation.
- Supports smart search function for faster and easier playback retrieval
- Picture-in-picture display & channel screen popup on monitor/sensor
- Role-based multiple network users access to exclusive channel view & operation

MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

TEST II GIST IE S	
Model	TFDR-1904 TFDR-1904TH
LCD Size	19"
Resolution	1280 X 1024(SXGA)
Viewing Angle	170/160 (Typ.)
Brightness	250 cd/m2
Contrast Ratio	1000 : 1
Response Time (Tr +Tf)	5ms
Video System	NTSC / PAL
Video Input	BNC X 4 ,1.0Vp-p , 75ohm
Video Output	BNC X 2 ,1.0Vp-p , 75ohm
Audio Input	1ch , RCA
Audio Output	1ch , RCA
Mouse	USB Mouse
IR Remote Control	Yes
Touch Panel Control	-n/a Yes
Internal HDD	SATA HDD X1, Max 2TB
Display Division	1 , 4, seq.
Zoom	2X~8X (PLAYBACK ZOOM SUPPORT)
Recording Compression	H.264 main profile
Recording Mode	manual , schedule , alarm , holiday
Resolution	720x480, 720x240, 352x240 (NTSC) 720x576, 720x288, 352x288 (PAL)
Frame Rate	60, 120, 120 FPS (NTSC) 50, 100, 100 FPS (PAL)
Quality	Highest, High, Normal, Low, Lowest
Motion Detection	Sensitivity , 15 Level , 16X12 Grid
Alarm	16MB (Pre-alarm) 1~999 sec (post-alarm)
Water Mark	Yes
Playback Speed	normal , REW & FF (2X /4X / 8X / 16X / 32X / 64X)
Search Method	Segment, Time, Event, Calendar
Remote Software	CMS, IE Browser, Mobile
Remote Operation	VIRTUAL DVR- SAME AS LOCAL OSD
Network Service	TCP/IP, HTTP, DHCP, SMTP(SSL), ADSL, LAN, DDNS
3G Device	WIN 5.0, 6.0, SYMBIAN, iPhone, PDA, BLACKBERRY
GUI Interface	Supported GUI 16 BIT True Color
Dome Protocal	PELCO P, PELCO D
External	USB X1 (FRONT PANEL)
Network Backup	Yes
File	H.264 compression /AVI Format
	· Charifications are subjected to change without prior nation

· Specifications are subjected to change without prior notice.

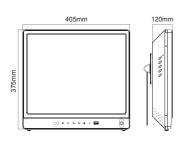
19" 8 CHANNEL DVR **COMBO MONITOR**



• Touch Screen display integrated with LCD for TFDR-1908TH

- NTSC/PAL auto detect
- Supports up to 1280 x 1024SXGA high resolution
- High contrast ratio up to 1000:1
- 8CH DVR with H.264 Video compression
- Provide Graphical User Interface (GUI) and mouse/touch screen for easier and user friendly configuration and operation.
- Supports smart search function for faster and easier playback retrieval
- Picture-in-picture display & channel screen popup on monitor/sensor
- Role-based multiple network users access to exclusive channel view & operation

MECHANICAL DIMENSION



TECHNICAL SPECIFICATIONS

Model	TFDR-1908 TFDR-1908TH			
LCD Size	19"			
Resolution	1280 X 1024(SXGA)			
Viewing Angle	170/160 (Typ.)			
Brightness	250 cd/m2			
Contrast Ratio	1000 : 1			
Response Time (Tr +Tf)	5ms			
Video System	NTSC / PAL			
Video Input	BNC X 8 ,1.0Vp-p , 75ohm			
Video Output	BNC X 2 ,1.0Vp-p , 75ohm			
Audio Input	4ch, RCA			
Audio Output	2ch, RCA			
Mouse	USB Mouse			
IR Remote Control	Yes			
Touch Panel Control	-n/a Yes			
Internal HDD	SATA HDD X1, Max 2TB			
Display Division	1 , 4, 8, seq.			
Zoom	2X~8X (PLAYBACK ZOOM SUPPORT)			
Recording Compression	H.264 main profile			
Recording Mode	manual , schedule , alarm , holiday			
Resolution	720x480 , 720x240 , 352x240 (NTSC) 720x576 , 720x288 , 352x288 (PAL)			
Frame Rate	60 , 120 , 120 FPS (NTSC) 50 , 100 , 100 FPS (PAL)			
Quality	Highest , High , Normal , Low , Lowest			
Motion Detection	Sensitivity, 15 Level, 16X12 Grid			
Alarm	16MB (Pre-alarm)			
Water Mark	1~999 sec (post-alarm) Yes			
Playback Speed	normal, REW & FF (2X /4X / 8X / 16X / 32X / 64X)			
Search Method	Segment , Time, Event , Calendar			
Remote Software	CMS, IE Browser , Mobile			
Remote Operation	VIRTUAL DVR- SAME AS LOCAL OSD			
Network Service	TCP/IP, HTTP, DHCP, SMTP(SSL), ADSL, LAN, DDNS			
3G Device	WIN 5.0, 6.0, SYMBIAN, iPhone, PDA, BLACKBERRY			
GUI Interface	Supported GUI 16 BIT True Color			
Dome Protocal	PELCO P, PELCO D			
External	USB X1 (FRONT PANEL)			
Network Backup	Yes			
File	H.264 compression /AVI Format			
THE	11.204 compression /Avi Format			

Specifications are subjected to change without prior notice.

10CH CHANNEL HD-D1 HYBRID DVR



- H.264 Hardware Compression
- 2HD 8D1 Channel
- Real-Time Triple streaming for Live display and playback
- High Definition Picture Quality HD Multiplexer

Auto Switching for 4:3 or 16:9 screen aspect ratio

- User Friendly GUI
- Support 3GPP, smart phones, iPhone and Android phone
- With USB port for back up
- CMS support
- Support MAC

TECHNICAL SPECIFICATIONS

Model			SR-2H8D		
Product Nan	ne		10CH HD-D1 Hybrid DVR (2HD-8D1)		
Camera Inpu			10 CH		
	Output		Max. 1920x1080		
Video	·		2 independent output: 1 HDMI with Audio, 1 VGA		
	Input Output		HD-SDI camera (1080p / 720p) x 2 + (720x480 / 720x576) analog camera x 8 2 RCA		
Audio	Input		8 x RCA + 2 x HD-SDI		
	Operating Syste	em	Embedded Linux OS		
			Max. 6 x SATA Devices		
	SATA Devices		(HDDx6, HDDx5 + eSATAx1, HDDx5 + DVD±RWx1, HDDx4 + DVD±RWx1 + eSATAx1)		
	External HDD	110)	Yes (e-SATA)		
	Sensor In (NO,	NC)	Sensor-in x 10		
Audio	Relay out Serial Interface		Relay-out x 4 RS-485 (Inx1, Outx1)		
Audio	USB		2 x USB2.0		
	Dimension (mm	1)	430(W) x 55(H) x 300(D)		
	Weight	′			
	(w/o HDD/DVD	±RW)	2.6Kg		
	Power Input		AC100-240V DC12V 5A		
	Power		60W		
	Speed	ol)	1080p / 720p 60fps, D1 240 fps (NTSC) / 200 fps (PAL)		
Display	Resolution (Pix Split screen	CI)	1080p / 720p / 720 x 480 (NTSC), 720 x 576 (PAL) 1.4.10 SEQ.		
Display	Auto Channel S	Switching	Switching time: 1 ~ 99 sec		
	Mode	, witoring	Zoom (Digital x2 ~ x8), PIP, Auto SEQ.		
	Compression		H.264 Baseline		
		Main	1080p / 720p for CH 1 ~ 2		
	Dual Stream	(Recording)	704x480, 704x240, 352X240 (NTSC) /		
	Resolution	Sub	704x576, 704x288, 352x288 (PAL) for CH 3 ~ 8 640x360 / 320x180, 352x240, 176x240, 176x120 (NTSC) /		
	(Pixel)	(Network)	352x288. 176x288. 176x144 (PAL)		
Recording	Picture quality	(INCLWOIK)	10~100 levels for adjustment		
recording	Mode		Normal, Manual, Event, Schedule		
	NTSC		1080p real-time(for CH 1 ~ 2) & D1 real-time(for CH 3 ~ CH 10)		
	Speed PAL		1080p real-time(for CH 1 ~ 2) & D1 real-time(for CH 3 ~ CH 10)		
	Pre-Alarm		1 ~ 10 SEC		
	Post-Alarm		1 ~ 100 SEC		
	Watermark Display		Yes 1, 4 , 10		
	Search mode		Date/time, Event		
D	Zoom		Digital (x2 ~ x8)		
Playback	Snapshot		Yes		
	Speed		Play, Pause, Stop, Slow(1/2, 1/4, 1/8), FF(4, 8, 16, 32), REW(4, 8, 16, 32), Frame Step, Seek Bar		
	Device		Int. HDD		
	Network Interfa	ce	10/100/1000 Ethernet		
	Protocol		TCP/IP, SMTP, HTTP, DHCP, PPPoE(ADSL), NTP, DDNS		
	Application Remote Softwa	uro.	Windows XP/VISTA/7, Mac OS X DVR, IE Browser		
Network	Account	ii e	1 Admin + 8 Users		
	CMS		CMS for Windows XP, Windows Vista, Windows 7		
	Mobile Device		Windows Phone, Blackberry, iPhone, iPad, Android		
	Event Transpor	t	E-mail		
	Interface		USB 2.0 or SATA		
Backup	Audio Backup		Yes		
	Network	(Ontion)	Yes		
	Backup Device	` ' '	DVR / USB Flash Drive / USB DVD±RW / SATA DVD±RW Sensitivity : 100 levels for each channel		
	Motion Detection	n	Area : Configurable detection area		
Alarm	E		Up to the 10000 events		
	Event log		(Sensor, Motion, video Loss, power on, remote login, logout, HDD error, HDD full)		
	GUI		16-bit True Color		
	Multi-Language)	Supported		
OCD CDVD	Camera Title		Multi-Language		
OSD&DVR	USB Mouse		Yes Touch Panel LCD Monitor (USB Interface, EETI Chipset Only)		
Control	Touch Panel Remote Contro	ller	IR Remote Control		
	System Upgrad		USB		
	Pan/Tilt/Zoom (Control From RS-485 Interface		
			Specifications are subjected to change without prior notice.		

· Specifications are subjected to change without prior notice.

20CH CHANNEL HD-D1 HYBRID DVR



TECHNICAL SPECIFICATIONS

- H.264 Hardware Compression
- 4HD 16D1 Channel
- Real-Time Triple streaming for Live display and playback
- High Definition Picture Quality HD Multiplexer
- Auto Switching for 4:3 or 16:9 screen aspect ratio
- User Friendly GUI
- Support 3GPP, smart phones, iPhone and Android phone
- With USB port for back up
- CMS support
- Support MAC

Product Name			20CH HD-D1 Hybrid DVR (4HD-16D1)		
Camera Inpu	ut		20 CH		
	Output		Max. 1920x1080		
Video	· ·		2 independent output: 1 HDMI with Audio, 1 VGA		
	Input Output		HD-SDI camera (1080p / 720p) x 4 + (720x480 / 720x576) analog camera x 16 2 RCA		
Audio	Input		16 x RCA + 4 x HD-SDI		
	Operating Syst	em	Embedded Linux OS		
			Max. 6 x SATA Devices		
	SATA Devices		(HDDx6, HDDx5 + eSATAx1, HDDx5 + DVD±RWx1, HDDx4 + DVD±RWx1 + eSATAx1)		
	External HDD		Yes (e-SATA)		
	Sensor In (NO,	NC)	Sensor-in x 20		
_	Relay out		Relay-out x 4		
System	Serial Interface	!	RS-485 (Inx1, Outx1)		
	USB	\	2 x USB2.0		
	Dimension (mr Weight	п)	430(W) x 55(H) x 300(D)		
	(w/o HDD/DVD	μD\// \	2.6Kg		
	Power Input	±1000)	AC100-240V DC12V 5A		
	Power		60W		
	Speed		1080p/720p 60fps, D1 240 fps (NTSC) / 200 fps (PAL)		
	Resolution (Pix	el)	1080p / 720p / 720x480(NTSC), 720x576(PAL)		
Display	Split screen		1,4,10,16, 20 SEQ.		
	Auto Channel S	Switching	Switching time: 1 ~ 99 sec		
	Mode		Zoom (Digital x2~ x8), PIP, Auto SEQ.		
	Compression		H.264 Baseline		
		Main	1080p / 720p for CH 1 ~ 4		
	Dual Stream	(Recording)	704x480, 704x240, 352x240 (NTSC) /		
	Resolution	(704x576, 704x288, 352x288 (PAL) for CH 5 ~ 20 640x360 / 320x180		
	(Pixel)	Sub	352x240, 176x240, 176x120 (NTSC) /		
		(Network)	352x288, 176x288, 176x144 (PAL)		
Recording	Picture quality		10~100 levels for adjustment		
	Mode		Normal, Manual, Event, Schedule		
	0	NTSC	1080p real-time(for CH 1 ~ 4) & D1 real-time(for CH 5 ~ CH 20)		
	Speed	PAL	1080p real-time(for CH 1 ~ 4) & D1 real-time(for CH 5 ~ CH 20)		
	Pre-Alarm		1 ~ 10 SEC		
	Post-Alarm		1 ~ 100 SEC		
	Watermark		Yes		
	Display		1, 4 , 10, 16, 20		
	Search mode Zoom		Date/time, Event Digital (x2 ~ x8)		
Playback	Snapshot		Yes		
	Speed		Play, Pause, Stop, Slow(1/2, 1/4, 1/8), FF(4, 8, 16, 32), REW(4, 8, 16, 32), Frame Step, Seek Bar		
	Device		Int. HDD		
	Network Interfa	ice	10/100/1000 Ethernet		
	Protocol		TCP/IP, SMTP, HTTP, DHCP, PPPoE(ADSL), NTP, DDNS		
	Application		Windows XP/VISTA/7, Mac OS X		
Network	Remote Softwa	ire	DVR, IE Browser		
HOUNDIN	Account		1 Admin + 8 Users		
	CMS		CMS for Windows XP, Windows Vista, Windows 7		
	Mobile Device		Windows Phone, Blackberry, iPhone, iPad, Android		
	Event Transpor	t .	E-mail		
	Interface Audio Backup		USB 2.0 or SATA Yes		
Backup	Network		Yes		
	Backup Device	(Option)	DVR / USB Flash Drive / USB DVD±RW / SATA DVD±RW		
			Sensitivity: 100 levels for each channel		
Alorm	Motion Detection	on	Area : Configurable detection area		
Alarm	Event log		Up to the 10000 events		
	-		(Sensor, Motion, video Loss, power on, remote login, logout, HDD error, HDD full)		
	GUI		16-bit True Color		
	Multi-Language	9	Supported		
OCDODIO	Camera Title		Multi-Language		
OSD&DVR	USB Mouse Touch Panel		Yes Touch Panel I CD Manitor / I ISB Interface FETI Chinest Only)		
Control		ller	Touch Panel LCD Monitor (USB Interface, EETI Chipset Only) IR Remote Control		
	Remote Controller		IIV IVEHIORE COLLEGE		
			USB		
	System Upgrad	de	USB Control From RS-485 Interface		

SR-4H16D

Specifications are subjected to change without prior notice.

4 CHANNEL H.264 **HD STANDALONE DVR**



• H.264 Hardware Compression

- 4 Channel HD (1080P) Recording
- Real-Time Triple streaming for Live display and playback
- High Definition Picture Quality HD Multiplexer

Auto Switching for 4:3 or 16:9 screen aspect ratio

- User Friendly GUI
- Support 3GPP, smart phones, iPhone and Android phone
- With USB port for back up
- CMS support
- Support MAC

Model		SR-HD9413		
Camera Inp	ut	4 CH		
	Input	4 HD-SDI		
Video	Output	1 HDMI (1920 x 1080) + Audio / 1 VGA (1920 x 1080)		
A SPS	Input	4 HD-SDI		
Audio	Output	2 RCA		
Operating S	ystem	Embedded Linux OS		
Internal HDI	,)	Support Max. 6 SATA Device		
III(eiiiai IID))	(HDDx4, HDDx4 + eSATAx1, HDDx4 + DVDx1, HDDx4 + DVDx1 + eSATAx1)		
External HD	D	eSATA		
	t / Relay Output	4 in / 4 out		
Serial Interfa	ace	RS-485		
JSB		2 x USB2.0		
	Speed	1080P / 720P, 120fps		
	Resolution (Pixel)	1920 x 1080, 1280 x 720		
	Split Screen	1, 4, SEQ.		
	Auto Channel Switchin			
	Mode	Zoom (Digital x 2 ~ x 8), PIP, Auto SEQ.		
	Compression	H.264 ASP (Internet Transmission: H.264)		
	Dual Stream Main (reco	1920 x 1080, 1280 x 720		
Recording	Resolution Sub	640 x 360, 320 x 180		
	(pixel) (netw	rk)		
	Picture Quality	10 ~ 100 levels for adjustment		
	Mode	Manual, Motion, Alarm, Schedule		
	Priority	Manual -> Alarm, Motion -> Schedule		
	Speed	60fps (1920 x 1080), 120fps (1280 x 720)		
	Pre-Alarm	1 ~ 10 sec		
	Post-Alarm	1 ~ 100 sec		
	Watermark	Yes		
	Display	1.4		
	Search Mode	Date, Time, Event (motion, alarm) camera		
Playback	Zoom	Digital x2 ~ x 8		
,	Speed	Seek, Normal, REW &FF, Frame to frame, Pause		
	Device	Internal HDD		
	Network Interface	Ethernet		
	Protocol	TCP/IP, SMTP, HTTP, DHCP, PPPOE(ADSL)		
	Application	Windows XP/VISTA / 7 (PC Client System)		
	Remote Software	License Application Software, IE Browser		
Network	Account	1 Admin + 8 Users		
	CMS	Yes		
	3G/ GPRS	Symbian OS, Windows Mobile, JAVA, Blackberry, iPhone, Android phone		
	Event Transport	E-mail		
	Interface	USB2.0 or SATA		
Backup	Audio Backup Network	YES YES		
	Backup device (Option	Network Back up / USB flash drive / USB DVD-RW / SATA DVD-RW Detect Frames: Unlimited / channel		
	Melies Detroites			
	Motion Detection	Sensitivity: 100 levels for each channel		
M		Area: Programmable motion detection area for each camera individually		
Alarm	Alarm Hold Time	1~60 sec		
	Search (Event Criterio			
	Event log	Up to the 10000 events		
	•	(Alarm, Motion, Video Loss, Power On/Off, record on/off, remote login, HDD error		
	GUI	16 bit True Color		
	Multi Language	English, German, Japanese, Italian, Polish, Portuguese, Spanish, Traditional Chinese, Simplified		
		Chinese, Herbew, Turkish, Thai		
OSD &DVR	USB Mouse	Yes		
Control	Iouch Panel	Touch Panel LCD Monitor (USB interface, EETI Chipset only)		
Johnson	Remote Controller	IR Remote Control (Max. 4 Device)		
	Upgrade	via USB/ Network		
	Camera title	Multi Language		
	P/T/Z Control	RS485 Interface		
	Dimension(mm)	442(W) x 92(H) x 438(D)		
Nh	Weight w/o HDD/DVD	5Kg		
Others	Power	AC 110V / 220V		
	Power Source	220W		



• H.264 Hardware Compression

- 8 Channel HD (1080P) Recording
- Real-Time Triple streaming for Live display and playback
- High Definition Picture Quality HD Multiplexer

Auto Switching for 4:3 or 16:9 screen aspect ratio

- User Friendly GUI
- Support 3GPP, smart phones, iPhone and Android phone
- With USB port for back up
- CMS support
- Support MAC

Model			SR-HD9813			
Camera Inpi	ut		8			
	Output		Max;1920X1080 2 independent output:1 HDMI with Audio ,1VGA			
Video	Input		8 x HD-SDI (1080p@60fps, 1080p@50fps, 1080p@30fps, 1080p@25fps, 1080i@60fps, 1080i@50fps, 720p@60fps, 720p@50fps)			
Audio	Input		8 HD-SDI 8 RCA (1 shared for 2-way audio)			
Operating S	Output		2 RCA Embedded Linux OS			
Internal HDE			Supports Max. x 6 SATA Devices			
External HD			(HDDx6, HDDx5 + eSATAx1, HDDx5 + DVD±RWx1, HDDx4 + DVD±RWx1 + eSATAx1) YES, eSATA			
Sensor Inpu	t / Relay Output		Sensor-in x 8			
Serial Interfa	ace		Relay-out x 4			
USB			RS-485 (Inx1, Outx1)			
	Speed		1080P / 720P, 240fps			
Display	Split Screen		1, 4, 8 SEQ.			
	Auto Channel S	Switching	Switching time: 1 ~ 99 sec			
	Mode		Zoom (Digital x2~ x8), PIP, Auto SEQ.			
	Compression	Main	H.264 High Profile			
	Dual Stream Resolution	(Recording) Sub	1920 x 1080 , 1280 x 720			
	(Pixel)	(Network)	640 x 360 , 320 x 180			
Recording	Picture Quality		10 ~ 100 levels for adjustment			
recording	Mode		Normal, Manual, Event, Schedule			
	Speed		240 fps (1920x1080)			
			240 fps (1280x720)			
	Pre-Alarm		1 ~ 10 sec			
	Post-Alarm Watermark		1 ~ 100 sec Yes			
	Display		1, 4 , 8			
	Search Mode		Date/Time , Event			
	Zoom		Digital x2 ~ x 8			
Playback	Shapshot		YES			
	Speed		Play, Pause, Stop, Slow(1/2, 1/4, 1/8), FF(4, 8, 16, 32), REW(4, 8, 16, 32), Frame Step, Seek Bar			
	Device		Internal HDD			
	Network Interfa	ce	10/100/1000 Ethernet			
	Protocol		TCP/IP, SMTP, HTTP, DHCP, PPPoE(ADSL), NTP, DDNS			
	Application		Windows XP/VISTA/7, Mac OS X			
Network	Remote Softwa	ire	License Application Software , IE Browser			
	Account		1 Admin + 8 Users			
	CMS	1	Yes			
	Event Transpor Event Transpor		Windows Phone, Blackberry, iPhone, iPad, Android E-mail			
	Interface	ι	USB2.0 or SATA			
	Audio Backup		YES			
Backup	Network		YES			
	Backup device	(Option)	Network Back up / USB flash drive / USB DVD-RW / SATA DVD-RW			
	Motion Detection	on	Sensitivity: 100 levels for each channel Area: Individually programmable			
Alarm	Alarm Hold Tim	ie	1~60 sec			
Alailli	Event log		Up to the 10000 events			
	GUI		(Sensor, Motion, video Loss, power on, remote login, logout, HDD error, HDD full) 32 bit True Color			
	Multi Language		Supported			
OSD &DVR	Camera Title		Multi-Language			
			Yes			
OSD &DVR			Touch Panel LCD Monitor (USB interface, EETI Chipset only)			
OSD &DVR Control	Touch Panel					
		ller	IR Remote Control			
	Touch Panel Remote Contro Upgrade	ller	via USB/ Network			
	Touch Panel Remote Contro Upgrade P/T/Z Control		via USB/ Network RS485 Interface			
	Touch Panel Remote Contro Upgrade P/T/Z Control Dimension(mm)	via USB/ Network RS485 Interface 442(W) x 92(H) x 438(D)			
	Touch Panel Remote Control Upgrade P/T/Z Control Dimension(mm Weight w/o HD)	via USB/ Network RS485 Interface 442(W) x 92(H) x 438(D) 5Kg			
Control	Touch Panel Remote Contro Upgrade P/T/Z Control Dimension(mm)	via USB/ Network RS485 Interface 442(W) x 92(H) x 438(D)			

8 CHANNELS FULL D1REALTIME LIVE / PLAYBACK



KEY FEATURES

• H.264 Hardware Compression

- High Speed up to 16CH D1(960x480) real-time recording
- Real-Time Triple streaming for Live display and playback
- High Definition Picture Quality
- Auto Switching for 4:3 or 16:9 screen aspect ratio
- User Friendly GUI
- Support 3GPP, smart phones, iPhone and Android phone
- With USB port for back up
- CMS support
- Support MAC

Model			SR-2H008		
	Input		8CH BNC		
Video	Output		Max. 1920x1080		
			2 independent output: 1 HDMI with Audio, 1 VGA		
Audio	Input Output	-	8 RCA(1 shared for 2-way audio) 2 RCA		
Operating S			Embedded Linux OS		
Internal HD	n n		Max. 4 x SATA Devices		
			(HDDx3 + eSATAx1, HDDx2 + DVD±RWx1 + eSATAx1)		
External HD	טט		eSATA Sensor-in x8		
Sensor Inpi	ut / Relay Outpu	it	Relay-out x2		
Serial Interf	face		1 x RS-485 (in/out shared)		
USB			2 x USB2.0		
	Speed		HD 30fps, D1 240fps		
Diopley	Resolution (Pix	el)	1280 x 720P / 720 x 480(NTSC), 720 x 576 (PAL) 1.4.9 SEQ.		
Display	Split Screen Auto Channel S	Switching	1,4,9 5EQ. Switching time: 1-99 sec.		
	Mode	, miloning	Zoom (Digital x 2~8), PIP, Auto SEQ.		
	Compression		H.264 AVC		
	Dual Stream	Main	704 x 480 , 704 x 240 , 352 x 240 (NTSC)		
	Resolution	(Recording)	704 x 576 , 704 x 288 , 352 x 288 (PAL)		
	(Pixel)	Sub (Notwork)	352x240, 176x240, 176x120 (NTSC) / 352x288, 176x288, 176x144 (PAL)		
	Picture Quality	(Network)	10~100 levels for adjustment		
	Mode		Normal, Manual, Event, Schedule		
Recording			D1 real-time (704 x 480)		
Recording		NTSC	HD1 real-time (704 x 240)		
	Speed		CIF real-time(352 x 240)		
		DAL	D1 real-time (704 x 576)		
		PAL	HD1 real-time (704 x 288) CIF real-time (352 x 288)		
	Pre-Alarm		1 ~ 10 sec		
	Post-Alarm		1 ~ 100 sec		
	Watermark		Yes		
	Display		1, 4 , 8		
	Search Mode		Date , Time , Event		
Playback	Zoom		Digital x2 ~ x8		
.,	Snapshot Contrl		Yes Play, Pause, Stop, Slow(1/2, 1/4, 1/8), FF(4, 8, 16, 32), REW(4, 8, 16, 32), Frame Step, Seek Bar		
	Device		Internal HDD /eSATA		
	Network Interfa	ice .	10/100/1000 Ethernet		
	Protocol		TCP/IP, SMTP, HTTP, DHCP, PPPOE(ADSL), NTP		
	Application		Windows XP/VISTA/7, Mac OS X		
Network	Remote Softwa	are	License Application Software, IE Browser		
·······	Account		1 Admin + 8 Users		
	CMS 3G/ GPRS		Unlimited (depends on bandwidth)		
	Event Transpor	t .	iPhone, iPad, Android phone, Windows Phone 7 E-mail		
	Interface		USB2.0 or SATA		
Back up	Audio Backup		YES		
васк ир	Network		YES		
	Backup device	(Option)	Network Back up / USB flash drive / USB DVD-RW / SATA DVD-RW		
	Motion Detection	on	Sensitivity: 100 levels for each channel		
Alarm			Area: Configurable detection area Up to the 10000 events		
	Event log		(Sensor, Motion, video Loss, power on, remote login, logout, HDD error, HDD full)		
	GUI		32 bit True Color		
			English, French, German, Greek, Japanese, Italian , Polish, Portuguese, Spanish , Traditional		
OSD	Multi Language	,	Chinese, Korean, Thai, Hebrew, Turkish, Russian		
& DVR	USB Mouse		Yes Table 1 Control (1987) in (1987)		
control	Touch Panel		Touch Panel LCD Monitor (USB interface, EETI Chipset only)		
	Remote Contro	nier	IR Remote Control Via USB/ Network		
	Upgrade P/T/Z Control		RS485 Interface		
	Dimension(mm)	430(W) x 55(H) x 300(D)		
045	Weight w/o HD		2.6Kg		
Others	Power		AC 100-240V DC12V 5A		
	Power Source		60W		
			 Specifications are subjected to change without prior notice. 		



KEY FEATURES

• H.264 Hardware Compression

- High Speed up to 16CH D1(704x480) real-time recording
- Real-Time Triple streaming for Live display and playback
- High Definition Picture Quality
- Auto Switching for 4:3 or 16:9 screen aspect ratio
- User Friendly GUI
- Support 3GPP, smart phones, iPhone and Android phone
- With USB port for back up
- CMS support
- Support MAC

Model	odel		SR-2H016		
	Input		16CH BNC		
Video		Main	HDMI (1024 x 768, 1280 x 1024, 1366 x 768, 1440 x 900) + Audio		
video	Output		VGA (1024 x 768, 1280 x 1024, 1366 x 768, 1440 x 900)		
		SPOT	BNC (720 x 480 / 720 x 576)		
Audio	Input		16 RCA		
	Output		2 RCA		
Operating Sy	ystem	-	Embedded Linux OS Support Max. 6 SATA Device		
Internal HDD)		(HDDx4 + eSATAx1, HDDx4 + DVDx1, HDDx4 + DVDx1 + eSATAx1)		
External HDI	n	-	(HDDX4 + 6SATAXT, HDDX4 + DVDXT, HDDX4 + DVDXT + 6SATAXT) eSATA		
			Sensor-in x16		
Sensor Input	t / Relay Output	t	Relay-out x 16		
Serial Interfa	ice	-	RS-485		
USB			2 x USB2.0 for Backup, Mouse Connectivity, 3G USB modem, Firmware upgrade		
	Speed		480 fps		
	Resolution (Piz	xel)	720 x 480(NTSC) / 720 x 576(PAL)		
Display	Split Screen		1, 4, 9, 13, 16, SEQ.		
	Auto Channel	Switching	Switching time: 1 ~ 99 sec		
	Mode		Zoom (Digital x 2 ~ x 8), PIP, Auto SEQ.		
	Compression	Main	H.264 ASP (Internet Transmission: H.264)		
	Dual Stream	Main	704 x 480, 704 x 240, 352 x 240 (NTSC)		
	Resolution	(recording)	704 x 576, 704 x 288, 352 x 288 (PAL)		
	(pixel)	Sub (naturals)	176 x 240 (NTSC) / 176 x 288 (PAL)		
	. ,	(network)	10~100 levels for adjustment		
Recording	Picture Quality Mode		Continuous, Motion, Alarm, Schedule		
	Priority		Manual -> Alarm, Motion -> Schedule		
	Speed	-	480 fps (NTSC) / 400 fps (PAL)		
	Pre-Alarm	-	1 ~ 10 sec		
	Post-Alarm	-	1 ~ 100 sec		
	Watermark		Yes		
	Display		1, 4 , 8 , 16		
	Search Mode	-	Date , Time , Event (motion, alarm) camera		
	Zoom		Digital x2 ~ x8		
Playback	Snapshot		Yes		
	Speed		Play, Stop, Slow(1/2, 1/4, 1/8), Seek, Normal, REW &FF, Frame to frame, Pause		
	Device		Internal HDD		
	Network Interfa	ace	10/100 Ethernet, 3G modules		
	Protocol		TCP/IP, SMTP, HTTP, DHCP, PPPOE(ADSL), NTP		
	Application		Windows XP/VISTA / 7 (PC Client System)		
Network	Remote Softwa	are	License Application Software, IE Browser		
INCLWOLK	Account		1 Admin + 8 Users		
	CMS		Unlimited (depends on bandwidth)		
	3G/ GPRS		iPhone, iPad, Android phone, Windows Phone 7		
	Event Transpo	rt	E-mail		
	Interface		USB2.0 or SATA		
Backup	Audio Backup		YES YES		
Duskup	Network	(0.11.)	YES		
	Backup device (Option)		Network Back up / USB flash drive / USB DVD-RW / SATA DVD-RW		
			Detect Frames : Unlimited / channel		
	Motion Detecti	on	Sensitivity: 100 levels for each channel		
A1			Area: Programmable motion detection area for each camera individually		
Alarm	Alarm Hold Tir		1~60 sec		
	Search (Event	Criterion)	YES		
	Event log		Up to the 10000 events		
	•		(Alarm, Motion, Video Loss, Power On/Off, record on/off, remote login, HDD error		
	GUI		16 bit True Color English Franch German Greek Japanese Italian Polish Portuguese Spanish		
	Multi Languag	е	English, French, German, Greek, Japanese, Italian, Polish, Portuguese, Spanish,		
	USB Mouse		Traditional Chinese, Korean, Thai, Hebrew, Turkish, Russian		
OSD &DVR	Touch Panel		Yes Touch Panel LCD Monitor (USB interface, EETI Chipset only)		
Control	Remote Contro	oller	IR Remote Control (Max. 4 Device)		
	Upgrade	UniOi	Via USB/ Network		
	Camera title		32 characters		
	P/T/Z Control		RS485 Interface		
	Dimension(mn	n)	442(W) x 92(H) x 438(D)		
	Weight w/o HE		5Kq		
Others	Power		AC 110V/240V		
	Power Source		220W		

32 CHANNEL H.264 D1 STANDALONE DVR



• H.264 Hardware Compression

- High Speed up to 32CH Half D1(704x240) real-time recording
- Triple streaming for Live display, Recording and playback
- High Definition Picture Quality
- Auto Switching for 4:3 or 16:9 screen aspect ratio
- User Friendly GUI
- Support 3GPP, smart phones, iPhone and Android phone
- With USB port for back up
- CMS support
- Support MAC System
- Support 3G Mobile System
- Support MAC

wodei			3K-2HU32
	Input		32CH BNC
			HDMI (1024x768, 1280x1024, 1366x768, 1440x900) + Audio
Video	Output	Main	
	Output	SPOT	VGA (1024x768, 1280x1024, 1366x768, 1440x900)
	Land Comment	SPUT	BNC(720x480 / 720x576)
Audio	Input		16 RCA
riddio	Output		2 RCA
Operating Sy	/stem		Embedded Linux OS
			Support Max. 6 SATA Device
Internal HDD)		(HDDx4, HDDx4 + eSATAx1, HDDx4 + DVDx1, HDDx4 + DVDx1 + eSATAx1)
External HDI	,		
External HDI	J		eSATA
Sensor Innui	/ Relay Output		Sensor-in x16
Oction input	. r ricitaly Output		Relay-out x 4
Serial Interfa	ce		RS-485
USB			2 x USB2.0 for Backup, Mouse Connectivity, 3G USB modem, Firmware upgrade
002	Speed		960 fps
		(اه	
B: 1	Resolution (Pix	.ei)	720 x 480(NTSC) / 720 x 576(PAL)
Display	Split Screen		1, 4, 9, 16, 32, SEQ.
	Auto Channel S	Switching	Switching time: 1 ~ 99 sec
	Mode		Zoom (Digital x 2 ~ x 8), PIP, Auto SEQ.
	Compression		H.264 ASP (Internet Transmission: H.264)
	'	Main	704 x 480 , 704 x 240 , 352 x 240 (NTSC)
	Dual Stream		
	Resolution	(recording)	704 x 576 , 704 x 288 , 352 x 288 (PAL)
		Sub	176 x 240 (NTSC) / 176 x 288 (PAL)
	(pixel)	(network)	170 x 240 (N100) / 170 x 200 (FML)
D	Picture Quality		10~100 levels for adjustment
Recording	Mode		Continuous, Motion, Alarm, Schedule
	Priority		Manual -> Alarm, Motion -> Schedule
	PAL		D1 400fps(704x576), HD1 800fps(704x288), CIF 800fps(352x288)
	Pre-Alarm		1 ~ 10 sec
	Post-Alarm		1 ~ 100 sec
	Watermark		Yes
	Display		1, 4 , 8 , 16, 32
	Search Mode		Date , Time , Event (motion, alarm) camera
Playback	Zoom		Digital x2 ~ x8
1 laybaok	Snapshot		Yes
	Speed		Play, Stop, Slow(1/2, 1/4, 1/8), Seek, Normal, REW &FF, Frame to frame, Pause
	Device		Internal HDD
	Network Interface		10/100 Ethernet , 3G
	Protocol		TCP/IP, SMTP, HTTP, DHCP, PPPOE(ADSL), NTP
			Window VD/UCTA / A MAC OC V /DO Client Contains
	Application		Windows XP/VISTA / 7 , MAC OS X (PC Client System)
Network	Remote Software		License Application Software , IE Browser
INCLINOIR	Account		1 Admin + 8 Users
	CMS		Unlimited (depends on bandwidth)
	3G/ GPRS		iPhone, iPad, Android phone, Windows Phone 7
	Event Transpor	+	E-mail
	Interface		USB2.0 or SATA
Backup	Audio Backup		YES YES
	Network		YES
	Backup device (Option)		Network Back up / USB flash drive / USB DVD-RW / SATA DVD-RW
			Detect Frames : Unlimited / channel
	Motion Detection	n	Sensitivity: 100 levels for each channel
	Motion Detection		
			Area: Programmable motion detection area for each camera individually
Alarm	Alarm Hold Tim		1~60 sec
	Search (Event	Criterion)	YES
	`	,	Up to the 10000 events
	Event log		
	CIII		(Alarm , Motion , Video Loss , Power On/Off, record on/off, remote login, HDD error
	GUI		16 bit True Color
	Multi Languaga		English, French, German, Greek, Japanese, Italian , Polish, Portuguese, Spanish , Traditional
	Multi Language	•	Chinese, Korean, Thai, Herbew, Turkish, Russian
000 0000	USB Mouse		Yes
OSD &DVR	Touch Panel		Touch Panel LCD Monitor (USB interface, EETI Chipset only)
Control		llor	
	Remote Contro	nici	IR Remote Control (Max. 4 Device)
	Upgrade		Via USB/ Network
	Camera title		32 Character
	P/T/Z Control		RS485 Interface
	Dimension(mm)	442(W) x 92(H) x 438(D)
	Weight w/o HD		
Others		טוטעט	5Kg
	Power		AC 110V/240V
	Power Source		220W
			 Specifications are subjected to change without prior notice.
			oposinoations are subjected to stidings without prior hotice.

4CH / 8CH / 16CH H.264 STANDALONE DVR



KEY FEATURES

- 4 / 8 / 16 channels Full D1 720x480 Display
- HDMI Output,DVD (option)
- Full D1 recording and playback
- H.264 Hardware Compression
- Digital zoom× 8
- On Board VGA
- With free bundled CMS
- 3GPP, PDA, Smart phone Blackberry, HTC, iPhone support
- 2 USB port
- RS485 support
- Audio Input & output
- Digital Watermarking : Video Time and Date Stamped for Official Use
- Support MAC

REAR PANEL



SR-H2004-N



SR-H2008-N



SR-H2016-N

Model			SR-H2004-N	SR-H2008-N	SR-H2016-N	
Video System			NTSC / PAL auto			
HDMI Outp			414044400	Option		
Video Outp			1 VGA (1280x1024) + 1 BNC for Main Monitor or SPOT Monitor. 4 RCA in 16 RCA in			
Audio Inpu			2 RC		2 RCA out	
	munication		2110	RS485	2 NOA out	
	Relay Out		4 in / 1 out	8 in / 1 out	16 in / 1 out	
USB				2 x USB 2.0		
DVD Writer	r			Option	Max. 4 SATA Devices	
Internal De	vice		Max. 2 SATA Devices (HDI or HDDx1 +		(HDD x 3 + E-SATA x 1 or HDD x 2 + DVD x1 + E-SATA x 1)	
External De			Support HDD Array by e-SATA (Option)			
Operating (400 for	Embedded Linux OS	4006	
	Speed Resolution (Pixel))	120 fps	240 fps 720 x 480 (NTSC), 720 x 576 (PAL	480fps	
Display	Split Screen	1	1, 4, SEQ.	1,4,6,8 SEQ.	1,4,9,13,16 SEQ.	
' '	Mode			om (Digital x2 ~ x8) , PIP , Auto SI		
	Auto Channel S	Switching		Switching time: 1~999 sec		
	Compression	Mala	H.2	64 ASP (Internet Transmission: H.	264)	
	Dual Stream	Main (recording)	704 x 480, 704 x 240, 3	352 x 240 (NTSC) / 704 x 576, 704	x 288, 352 x 288 (PAL)	
	Resolution (pixel)	Sub (network)	3	352 x 240 (NTSC), 352 x 288 (PAL)		
	Picture Quality		5 steps (Highest , High, Normal, Basic, Bel		
	Mode Priority			Manual, Motion, Alarm, Schedule Manual, Alarm, Motion, Schedule		
Recording	Priority		120 fps (704 x 480)	120 fps (704 x 480)	120 fps (704 x 480)	
_		NTSC	120 fps (704 x 240)	240 fps (704 x 240)	240 fps (704 x 240)	
	Speed		120 fps (352 x 240)	240 fps (352 x 240) 100 fps (704 x 576)	480 fps (352 x 240)	
		PAL	100 fps (704 x 576) 100 fps (704 x 288) 100 fps (352 x 288)	200 fps (704 x 288)	100 fps (704 x 576) 200 fps (704 x 288) 400 fps (352 x 288)	
	Dec Alexan		100 fps (352 x 288)	200 fps (352 x 288)	400 fps (352 x 288)	
	Pre-Alarm Post-Alarm			10 seconds 1~60 sec		
	Water Marking			Yes		
	Display		1, 4	1, 4, 8	1, 4, 8, 16	
	Speed		Real time @ D1	1 1 -	ne @ CIF	
Playback	Search Mode		Date	e , Time , Event (motion, alarm) ca	mera	
	Zoom		N	Digital x2 ~ x8		
	Speed	00	Normal , REW &FF (S	Speed x 2, x4, x8, x16, x32, x64) F 10/100 Ethernet	rame to frame, Pause	
	Network Interface Protocol		TCP/IP SM	TP, HTTP, DHCP, PPPOE(ADSL),	NTP DDNS	
	Account		101711,0111	1 Admin + 4 Users	WII, BBIG	
Network	Application		Win	dows XP/VISTA / 7 (PC Client Sys	item)	
Network	Remote Softwa	re	Lice	ense Application Software, IE Brow	wser	
	CMS			Unlimited (Depends on bandwidth		
	3G/ GPRS		Symbian, Win	dows Mobile, Blackberry, iPhone,	Android phone	
	Event Transpor Interface	ι		E-mail USB2.0	-	
Backup	Audio Backup			YES		
	Backup device		Network Backup / USB Flash Drive / USB DVD±RW			
	Motion Detection		Each control / channel Sensitivity : 10 steps for each channel Area: Programmable motion detection area for each camera individually			
	Alarm Hold Tim	ie	7 ii ou. 1 Togrammat	1~60 sec	oao.a .//dividually	
	Event log		Up to the 1000 events (Alarm, Mo	otion , Video Loss , Power On/Off, reco	ord on/off, remote login, HDD error	
	Search (Event (Criterion)		Yes	•	
Alarm	Multi Language		English, Japanese, German, French, Spanish, Portuguese, Italian, Russian, Greek, Korean, Polish, Hungarian, Hebrew, Thai, Persian, Dutch, Turkish, Arabic, Vietnam, Swedish, Finnish, Ukrainian, Bulgarian, Romania, Indonesia			
	USB Mouse			YES		
	Touch Panel			CD Monitor (USB Interface, EETI		
	Remote Contro	ller	IR Remote Contro		IR Remote Control (Max. 4 Device)	
	Upgrade			via USB/ Network		
	Camera title Pan/Tilt Camera	2	Control From DC	14 Character 485 Interface (Pelco P. Pelco D. Sa	ameuna I.G. Lilin)	
Dimension		a	Control From RS4	430 x 55 x 300mm (WxHxD)	amoung, LG, Lillin	
Power	()		36W	36W	DC12V, 5A, 60W	
	o HDD/DVD±RV	V)		2.6Kg		
,					bjected to change without prior notice.	

SR-2H016-960H **16 CHANNELS WD1 DVR**



KEY FEATURES

• H.264 Hardware Compression

- High Speed up to 16CH D1(960x480) real-time recording
- Real-Time Triple streaming for Live display and playback
- High Definition Picture Quality
- Auto Switching for 4:3 or 16:9 screen aspect ratio
- User Friendly GUI
- Support 3GPP, smart phones, iPhone and Android phone
- With USB port for back up
- CMS support
- Support MAC

Model			SR-2H016-960H		
101	Output		Max. 1920x1080		
Video	Input		2 independent output: 1 HDMI with Audio, 1 VGA 16 BNC		
	Input		16 RCA (1 shared for 2-way audio)		
Audio	Output		2 RCA		
Operating S	ystem		Embedded Linux OS		
Internal HDI)		Max. 4 x SATA Devices		
External HD			(HDDx3 + eSATAx1, HDDx2 + DVDx1 + eSATAx1)		
			eSATA Sensor-in x16		
Sensor Inpu	it / Relay Output		Relay-out x 2		
Serial Interfa	ace		1 x RS-485 (in/out shared)		
USB			2 x USB2.0		
	Speed	- 15	WD1 480 fps (NTSC) / 400 fps (PAL)		
Dianlay	Resolution (Pix Split Screen	(el)	960x480(NTSC), 960x576(PAL)		
Display	Auto Channel S	Switching			
	Mode	Switching	Zoom (Digital x 2 ~ x 8) , PIP , Auto SEQ.		
	Compression		H.264 High Profile		
	Dual Stream	Main	960x480, 960x240, 480x240 (NTSC) /		
	Resolution	(Recording)	960x576, 960x288, 480x288 (PAL)		
	(pixel)	Sub	480x240, 176x240, 176x120 (NTSC) /		
	" /	(Network)	480x288, 176x288, 176x144 (PAL)		
	Picture Quality Mode		10~100 levels for adjustment Normal, Manual, Event, Schedule		
	Mode		D1 real-time(960 x 480)		
Recording			HD1 real-time(960 x 240)		
			CIF real-time(480 x 240)		
	Speed (NTSC/	PAL)	D1 real-time(960 x 576)		
			HD1 real-time(960 x 288)		
			CIF real-time(480 x 288)		
	Pre-Alarm		1 ~ 10 sec		
	Post-Alarm		1 ~ 100 sec		
	Watermark		Yes		
	Display		1, 4, 8, 16		
	Search Mode		Date , Time , Event		
Playback	Zoom Snapshot				
	Speed		Play, Pause, Stop, Slow(1/2, 1/4, 1/8), FF(4, 8, 16, 32), REW(4, 8, 16, 32), Frame Step, Seek Bar		
	Device		Internal HDD		
	Network Interface		10/100/1000 Ethernet		
	Protocol		TCP/IP, SMTP, HTTP, DHCP, PPPoE(ADSL), NTP, DDNS		
	Application		Windows XP/VISTA/7, Mac OS X		
Network	Remote Software		License Application Software , IE Browser		
	Account CMS		1 Admin + 8 Users Unlimited (depends on bandwidth)		
	3G/ GPRS		iPhone, iPad, Android phone, Windows Phone 7		
	Event Transport		E-mail		
	Interface		USB2.0 or SATA		
Backup	Audio Backup		YES		
Баскир	Network		YES		
	Backup device	(Option)	Network Back up / USB flash drive / USB DVD-RW / SATA DVD-RW		
	Motion Detection	on	Sensitivity: 100 levels for each channel		
Alarm			Area : Configurable detection area Up to the 10000 events		
	Event log		(Sensor, Motion, video Loss, power on, remote login, logout, HDD error, HDD full)		
	GUI		32 bit True Color		
	Multi Language	2	English, French, German, Greek, Japanese, Italian , Polish, Portuguese, Spanish , Traditional		
000001/5			Chinese, Korean, Thai, Hebrew, Turkish, Russian		
OSD&DVR	USB Mouse		Yes		
Control	Touch Panel	ollor	Touch Panel LCD Monitor (USB interface, EETI Chipset only)		
	Remote Contro Upgrade	JIIEI .	IR Remote Control (Max. 4 Device) Via USB/ Network		
	P/T/Z Control		RS485 Interface		
	Dimension(mm	1)	430(W) x 55(H) x 300(D)		
Othors	Weight w/o HD		2.6Kg		
Others	Power		AC100-240V DC12V 5A		
	Power Source		60W		
			Specifications are subjected to change without prior notice.		

4 CH / 8 CH / 16 CH H.264 DVR



- H.264 Hardware Compression
- With free bundled CMS
- 3GPP, Smart phone Blackberry, HTC, iPhone support
- 2 USB port
- 4 Alarm in, 1 Alarm Out
- RS485 Serial Communication
- Support MAC

REAR PANEL



Model			SR-3004WS	SR-3008WS	SR-3016WS	
Camera Inpi	ut		4CH	8 CH	16 CH	
Video Output		2 BNC (1 BNC for Mail	n monitor, 1 BNC for co-monitor) 1	VGA (max.1280X1024)		
Video Input			4CH	8CH	16CH	
HDMI .				N/A		
A all a	Input		4 RCA	4 RCA	4 RCA	
Audio	Output		2 RCA	2 RCA	1 RCA	
	Operating System	m		Embedded Linux OS		
	Internal HDD			Supports 1 SATA Device (HDDx1)		
	External HDD		N/A	N/A	eSATA	
System	Consor In (NO. N	VIC) Dolov out	Sensor-in x 4	Sensor-in x 4	Sensor-in x 8	
	Sensor In (NO, N	NC) Relay out	Relay-out x 1	Relay-out x 1	Relay-out x 1	
	Serial Interface		,	RŚ-485	•	
	USB			2 x USB2.0		
	Speed		120 fps	240 fps	480 fps	
	Resolution (Pixe	el)		720 x 480 (NTSC), 720 x 576 (PAL)	
Display	Split screen		1, 4, SEQ.	1, 4, 8, SEQ.	1, 4, 9, 13, 16, SEQ.	
	Auto Channel Sv	witching		Switching time: 1 ~ 999 sec		
	Mode		Zoom (Digital x2~ x8), PIP, Auto SEQ.			
	Compression			64 ASP (Internet Transmission: H.2		
			704 x 480, 704 x 240, 352 x 240	704 X 480, 704 X 240, 352 X 240	704 X 480, 704 X 240, 352 X 240	
	Dual Stream	Main	(NTSC) /	(NTSC) /	(NTSC) /	
		(Recording)	704 x 576, 704 x288, 352 x 288	704 X 576, 704 X 288, 352 X 288	704 X 576, 704 X 288, 352 X 288	
	Resolution		(PAL)	(PAL)	(PAL)	
	(Pixel)	Sub	352 x 240 (NTSC)	352 x 240 (NTSC)	352 x 240 (NTSC)	
		(Network)	352 x 288 (PAL)	352 x 288 (PAL)	352 x 288 (PAL)	
Recording	Picture quality	(HOUNDIN)		(Highest, High, Normal, Basic, Beld		
	Mode		0 10 40 10	Manual, Motion, Schedule	, Buoloj	
		NTSC	D1 120 fps (704 x 48	80) / HD1 120 fps (704 x 240) / CIF	120 fns (352 x 240)	
	Speed	PAL		76) / HD1 100 fps (704 x 288) / CIF		
	Pre-Alarm	IAL	D1 100 ip3 (104 x 3)	10 SEC	100 lp3 (002 x 200)	
	Post-Alarm			1 ~ 60 SEC		
	Watermark			Yes		
	Display		1, 4	1, 4, 8	1, 4, 9, 16	
	Search mode		1, 4	Date, time, event, camera	1, 4, 9, 10	
	Zoom			Digital (x2 ~ x8)		
Playback	Zoom Snapshot			Yes		
	Speed		Normal DEW & EE (recor	ded speed x2, x4, x8, x16, x32, x6	A) Frame to frame Pause	
	Device		Notifial, NEW & FF (lecol	Int. HDD	4), Frame to trame, Fause	
	Network Interfac	10		10/100 Ethernet		
			TCD/ID	SMTP, HTTP, DHCP, PPPoE(ADS	I \ NITD	
	Protocol			ndows XP/VISTA/7(PC Client syste		
	Application Remote Software		VVI	Application Software, IE Browser	:III)	
Network	Account			1 Admin + 10 Users		
	CMS			Yes		
	Mobile		Symbian Win	idows Mobile, Blackberry, iPhone, i	Android phone	
	Event Transport		Symblan, will	E-mail, FTP	Android priorie	
	Interface			USB 2.0 or SATA		
	Audio Backup			Yes		
Backup	Network			Yes		
	Backup Device ((Ontional)	Metwork	Backup / USB Flash Drive / USB I	N/D+RW	
	Dackup Device (Optional)	Network	Detected Frames: Channel	A D T I / A A	
	Motion Detection	1	Sensitivity: 10 levels for each channel			
	MOUNT DETECTION		Area : Programmable individually			
Alarm	Search (Event C	Criterion \	Yes			
	,		Up to the 10000 events			
	Event Log		(Sensor, Motion, video Loss, power on, remote login, logout, HDD error, HDD full)			
	GUI		(2225),, 71000 1	16-bit True Color	,,,	
	Multi-Language		F	English, Traditional Chinese, Other	S	
	Camera Title		Multi-Language			
OSD	USB Mouse			Yes		
& D)/D	Touch Panel		Touch Panel I	LCD Monitor (USB Interface, EETI	Chipset Only)	
DVR	Remote Controll	er		IR Remote Control (Max. 1 Device		
Control	System Upgrade			via USB / Network		
	Hard Key			Front Panel		
	Pan/Tilt/Zoom C	ontrol	Control From RS-	485 Interface (Pelco P, Pelco D, Sa	amsuna, LG, LiLin)	
			3331011110	Input 100~240V		
Adaptor				Output 12V 3A		
Power Source	ce			36W		
Dimension			W: 280(W) x 51(H) x 203(D)	W: 280(W) x 51(H) x 203(D)	W: 280(W) x 51(H) x 203(D)	
	HDD/DVD±RW))	1.00 Kg	1.03 Kgs	1.04 Kgs	
, , , , , , , , , , , , , , , , , , ,					ejected to change without prior notice.	
				- Specifications are sur	godou to change without phot holice.	

4CH / 8CH H.264 STANDALONE DVR



KEY FEATURES

- 4 / 8 channels Full D1 720x480 Display
- Full D1 recording and playback
- H.264 Hardware Compression
- Digital zoom× 8
- On Board VGA
- With free bundled CMS
- 3GPP, PDA, Smart phone Blackberry, HTC, iPhone support
- 2 USB port
- RS485 support
- 1 Audio Input & output
- Support MAC



SR-LD304



SR-LD308

			001800	00 1 8444		
Model			SR-LD304	SR-LD308		
Video System				PAL auto		
Video Output			1 VGA (1280x1024) + 1 BNC for Main Monitor or SPOT Monitor. 1 Audio input / 1 Audio output			
Audio Input Serial Communication			1 Audio input / 1 Audio output RS485			
USB	nunication			SB 2.0		
Internal HDI	n			SATA Device		
Operating S				d Linux OS		
Operating 3	Speed		120 fps	240 fps		
	Resolution (Pixel)), 720 x 576 (PAL)		
Display	Split Screen		1, 4, SEQ.	1.4.6.8 SEQ.		
Diopidy	Mode		Zoom (Digital x2 ~ x	7 7 7 7		
	Auto Channel Switching		Switching time: 1~999 sec			
	Compression	•		Transmission: H.264)		
	Dual Stream	Main	704 x 480, 704 x 240, 352 x 240 (NTSC) / 704 x 576, 704 x 288, 352 x 288 (PAL)			
	Resolution	(recording)	704 X 400, 704 X 240, 332 X 240 (11730)	17 704 X 370, 704 X 200, 332 X 200 (I AL)		
	(pixel)	Sub (network)	352 x 240 (NTSC)	, 352 x 288 (PAL)		
	Picture Qualit		5 steps (Highest , High, No	ormal, Basic, Below Basic)		
	Mode		1 1 0	Alarm, Schedule		
	Priority		Manual, Alarm, M	Motion, Schedule		
Recording		NTCC	120 fps (704 x 480) 120 fps (704 x 240) 120 fps (352 x 240)	120 fps (704 x 480)		
	0	NTSC	120 fps (704 x 240) 120 fps (352 x 240)	240 fps (704 x 240) 240 fps (352 x 240)		
	Speed		100 fps (704 x 576) 100 fps (704 x 288) 100 fps (352 x 288)	100 fps (704 x 576)		
		PAL	100 fps (704 x 288)	200 fps (704 x 288) 200 fps (352 x 288)		
	Pre-Alarm			conds		
	Post-Alarm) sec		
	Water Markin	a		es		
	Display	5	1, 4	1, 4, 8		
	Speed		Real time @ D1	Real time @ CIF		
Discharle	Search Mode			notion, alarm) camera		
Playback	Zoom		Digital x2 ~ x8			
	Speed		Normal, REW &FF (Speed x 2, x4, x8, x16, x32, x64) Frame to frame, Pause			
	Device		Internal HDD			
	Network Interface		10/100	Ethernet		
	Protocol		TCP/IP, SMTP, HTTP, DHCP,	, PPPOE(ADSL), NTP, DDNS		
	Account			+ 4 Users		
Network	Application		Windows XP/VISTA / 7 (PC Client System)			
	Remote Softv	vare	License Application Software , IE Browser			
	CMS		Unlimited (Depends on bandwidth)			
	3G/ GPRS		Symbian, Windows Mobile, Blackberry, iPhone, Android phone			
	Event Transp	оп	E-mail			
Dackup	Interface		USB2.0			
Backup	Audio Backup			YES Notwork Pookup / LICP Flock Drive / LICP DV/D+PW		
	Backup device		Network Backup / USB Flash Drive / USB DVD±RW Each control / channel			
	Motion Detec	tion	Sensitivity: 10 steps for each channel			
Alexandra	Alessa Hald Tive		Area: Programmable motion detection area for each camera individually			
Alarm	Alarm Hold Ti	ine	1~60 sec Up to the 1000 events			
	Event log		Up to the 1000 events (Alarm , Motion , Video Loss , Power On/Off, record on/off, remote login, HDD error			
	Search (Even	t Criterion)	YES			
	GUI		32 bit True Color			
	Multi Langua	70	English, Japanese, German, French, Spanish, Portuguese, Italian, Russian,			
OSD &DVR	Wulli Laliyua	ge.	Arabic, Vietnam, Swedish, Finnish, Ukrainian, Bulgarian, Romania, Indonesia			
	USB Mouse		YES			
	Touch Panel		Touch Panel LCD Monitor (USB Interface, EETI Chipset Only)			
Control	Remote Controller		IR Remote Control (Max. 1 Device)			
	Upgrade		via USB/ Network			
	Camera title		14 Character			
	Pan/Tilt Came	era		Ico P, Pelco D, Samsung, LG, Lilin)		
Dimension (mm)		225(W)x46(H)x215(D)	225(W)x46(H)x215(D)		
Power	LIDD (E) (E)	44.		3A , 36W		
Weight (w/o	HDD/DVD±R\	(V)	0.77Kg	0.82Kg		
			• Spe	ecifications are subjected to change without prior notice.		

CMS SOFTWARE

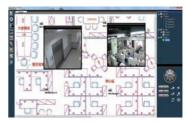
CMS SOFTWARE



Event Playback



Remote Play



E-MAP



Remote Download



User Management



System Set Up



Network Set Up



MENU



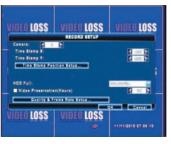
PTZ & RS-485 Set Up



Utility Set Up



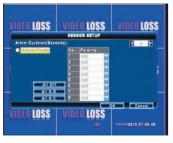
EVENT Set Up



Record Set Up



Motion Set Up



Sensor Set Up



Schedule Setup

CAMERA ENCLOSURES













Model	CH-905L	
Purpose	Outdoor	
Accessory	Blower & Heater (option)	
Construction	Aluminum	
Input Voltage	DC12V, AC24V, 110VAC, 220VAC	
Dimension	390mm(L) x 105mm(W) x 115mm(H)	
Weight 1.22Kgs		

Model	CH-917
Purpose	Outdoor
Accessory	Blower & Heater (option)
Input Voltage	DC12V, AC24V, 110VAC, 220VAC
Construction	Alumimum
Dimension	313mm(L) x 140mm(W) x 115mm(H)
Weight	1.4Kgs









Model	CH-912L , CH-912M
Purpose	Outdoor
Accessory	Blower & Heater & Wiper (option)
Construction	Aluminum
Input Voltage	DC12V, AC24V, 110VAC, 220VAC
Dimension	CH-912L: 470mm(L) x 142mm(W) x 135mm(H) CH-912M: 40mm(L) x 110mm(W) x 111.5mm(H)
Weight	CH-912L 2.7Kgs , CH-912M 1.9Kgs

Model	CH-920
Туре	Side Open
Purpose	Outdoor
Accessory	Blower & Heater (option)
Construction	Aluminum
Input Voltage	DC12V, AC24V, 110VAC, 220VAC
Dimension	125mm(L) x 126mm(W) x 370mm(H)
Weight	1.25Kgs



Model	CH-921
Туре	Side Open
Purpose	Outdoor
Accessory	Blower & Heater (option)
Construction	Aluminum
Input Voltage	DC12V, AC24V, 110VAC, 220VAC
Dimension	140mm(L) x 112mm(W) x 400mm(H)
Weight	1.6Kgs

Specifications are subjected to change without prior notice.

CAMERA ENCLOSURES







Model	MB-805
Dimension	285(H)X93(W)mm
Weight	0.8 kgs



Model	MB-806S	MB-806	MB-807S
MAX. Load Capacity	4 Kgs		
Construction	ABS Plastic		
Color	Black or Beige		
Dimension	120.5mm 160mm 180mm		180mm
Weight	0.2Kgs 0.25Kgs		



Model	MB-808
MAX. Load Capacity	4 Kgs
Construction	ABS Plastic
Color	Beige
Dimension	170mm
Weight	0.2Kgs





0.75Kgs



Model	MB-818L
MAX. Load Capacity	5 Kgs
Construction	Aluminum
Dimension	279.4mm
Weight	0.6Kgs



0.75Kgs

0.45Kgs

Model	MB-812	MB-813	MB-820
MAX. Load Capacity	3Kgs	5 Kgs	10 Kgs
Construction	Aluminum		
Dimension			214mm
Weight	0.2Kgs	0.3Kgs	0.45Kgs



MB-215
L type housing Bracket
10 kg
Matel / Beige
350(H) x 180(W)mm
360°
90°
10 pcs in one carton
12kgs, 13kgs

Weight