

			FINE IP	PTZ / Doi	ne Camer	a		
Model	EP-Q2036HW-IP EP-Q2026HW-IP EP-Q2018HW-IP	SP-PTIR737	CDV-3VM301	CDV-3VM501	CDV-3F930HU	CDV-3V930HU	CDV3V930 HDNU	CDV3VWD 960
			6			•	6	
Image Sensor	1/4" SONY Exview CCD	1/4" Exview HAD CCD	1/4" OV Progressive Scan CMOS	1/3" Micron Progressive Scan CMOS	1/3" SONY SuperHAD CCD	1/3" SONY SuperHAD CCD	1/3" SONY SuperHAD CCD	1/3" CCD (Wide Dynamic Range)
Lens	36X Optical Zoom 26X Optical Zoom 18X Optical Zoom With Wide Dynamic Range	37X Optical Zoom	Varifocal DC Iris 3.7~12 mm lens	Varifocal DC Iris 2.7~9 mm lens	3.6 (standard), 4.3 mm, 6mm, 8mm, 12mm (option)	Varifocal DC Iris 3.7~12 mm lens	Varifocal DC Iris 3.7~12 mm lens	Varifocal DC Iris 3.7~12 mm lens
Day & Night	Yes, with Mechanical IR Cut Filter or Color	Yes , with Mechanical IR Cut Filter	Yes, with Mechanical IR Cut Filter or color	Yes, with Mechanical IR Cut Filter or color	Software day & night or color	Software day & night or color	Yes, with Mechanical IR Cut Filter	Yes , with Mechanical IR Cut Filter
IR LEDS	N/A	Yes	Yes	Yes	N/A	N/A	Yes	Yes
Minimum Illumination	Color: 0.1 Lux B/W: 0.01 Lux	0.1 Lux /1 / 3 Sec. 1.4 Lux /1/50 Sec	Color: 1.5 Lux B/W: 0. Lux	Color: 0.5 Lux B/W: 0 Lux	Color: 0.1 Lux	Color: 0.1 Lux	Color: 0.1 Lux	Color: 0.1 Lux B/W: 0 Lux
Video Compression	H.264/JPEG Triple Streaming	H.264/JPEG/MPEG4 Triple Streaming	MPEG4/MJPEG Dual Streaming	H.264	MPEG4/MJPEG Dual Streaming	MPEG4/MJPEG Dual Streaming	MPEG4/MJPEG Dual Streaming	H.264/JPEG/MPEG4 Triple Streaming
Max. Video Resolution/fps	720x480 at 30 fps	720x480 at 30 fps	1280x1024 at 10 fps	1600x1200 at 15 fps	720x480 at 30 fps	720x480 at 30 fps	720x480 at 30 fps	720x480 at 30 fps
Network	Wired	Wired	Wired	Wired	Wired	Wired	Wired	Wired
Audio in	External	External	External	External	External	External	External	External
N-Way Audio	2 way audio	2 way audio	2 way audio	2 way audio	2 way audio	2 way audio	2 way audio	2 way audio
Alarm In/Out	N/A	N/A	1/1	1/1	1/1	1/1	1/1	1/1
3GPP Mobile/ Smart Phone	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Free Bundled Software 36 Channel	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support
Maxi Watch Professional Software	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power	AC24V	AC24V	DC12V & POE (IEE802.3af)	DC12V & POE (IEE802.3af)	DC12V or POE (IEE802.3af)	DC12V or POE (IEE802.3af)	DC12V or POE (IEE802.3af)	DC12V & POE (IEE802.3af)

IP PTZ | IP CAMERA | IP BULLET | IP VANDAL DOME | CAMERA SERVER | IP SOFTWARE | HYBRID DVR | NVR | EXTERNAL NAS | EXTERNAL SCSI | CMS | POE



	FINE Network Camera						
Model	TCP-MH802 TCP-MH802DN	TCP-690DNU	TCP-HPC960U TCP-HPC960WIU TCP-HPDN960U TCP-HPDN960WIU	TCP-IPWD 700DN	TCP-VM201	TCP-VM501	TCP-IRV540P/N
	O me	Pro	100	Company and			
Image Sensor	1/3" Micron CMOS	1/3" SONY SuperHad CCD	1/3" Hi-Sensitivity CCD	1/3" Sharp CCD (Wide Dynamic Range)	1/4" OV Progressive Scan CMOS	1/3" Micron Progressive Scan CMOS	1/3" SONY CCD
Day & Night	Color; Yes,with for TCP-MH802	Yes, with Mechan ical IR Cut Filter or color	Yes, with Mechanical IR Cut Filter or color	Yes , with Mechanical IR Cut Filter	Yes, with Mechanical IR Cut Filter	Yes, with Mechanical IR Cut Filter	Yes, with Mechanical IR Cut Filter
IR LEDS	N/A	N/A	N/A	N/A	Yes	Yes	Yes
Minimum Illumination	Color: 0.5 Lux	Color: 0.1 Lux B/W: 0.05 Lux	Color: 0.1 Lux B/W: 0.1 Lux	Color : 3 Lux B/W : 0.00001 Lux	Color: 1.5 Lux B/W: 0 Lux (IR LED ON)	Color: 0.5 Lux B/W: 0 Lux (IR LED ON)	Color: 0.1 Lux B/W: 0 Lux (IR LED ON)
Video Compression	H.264/JPEG Triple Streaming	MPEG4/MJPEG Dual Streaming	H.264/JPEG Triple Streaming	H.264/JPEG Triple Streaming	MPEG4/MJPEG Dual Streaming	H.264/JPEG Triple Streaming	MPEG4/MJPEG Dual Streaming
Max. Video Resolution/fps	1600x1200 at 15 fps	720x480 at 30 fps	720x480 at 30 fps	720x480 at 30 fps	1280x1024 at 10 fps	1600x1200 at 15 fps	720x480 at 30 fps
Network	Wired	Wired or Wireless	Wired or Wireless	Wired or Wireless	Wired	Wired	Wired
Audio in	Built in Microphone	Built in Microphone	Built in Microphone	Built in Microphone 2 way audio	N/A	External	N/A
N-Way Audio	2 way audio	2 way audio	2 way audio	2 way audio	N/A	2 way audio	N/A
Alarm In/Out	1/1	2/2	2/2	1/1	N/A	1/1	N/A
3GPP Mobile/ Smart Phone	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Free Bundled Software 36 Channel	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support
Maxi Watch Professional Software	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power	DC12V & POE (IEE802.3af)	DC12V or POE (IEE802.3af)	DC12V or POE (IEE802.3af)	DC12V & POE (IEE802.3af)	DC12V & POE (IEE802.3af)	DC12V & POE (IEE802.3af)	DC12V



		FI	NE Network (Camera		
Model	TCP-IRWH540P/N	TCP-IR590-WD30 TCP-IR590-WD50	TCP-IRH5030 TCP-IRH5040	TCP-IRV560/30M TCP-IIRV560/40M TCP-IRV560/50M	ТСМА-99	TCMA-99W
Image Sensor	1/3" CCD (Wide Dynamic Range)	1/3" CCD (Wide Dynamic Range)	1/3" CMOS Sensor	1/3" SONY CCD	1/4" OV Progressive Scan CMOS	1/4" OV Progressive Scan CMOS
Day & Night	Yes , with Mechanical IR Cut Filter	Yes , with Mechanical IR Cut Filter	Yes, with automatic switch over	Yes, with automatic switch over	Color	Color
IR LEDS	Yes	Yes	Yes	Yes	N/A	N/A
Minimum Illumination	Color : 3 Lux B/W : 0 Lux	Color : 3 Lux B/W : 0 Lux	Color : 3 Lux B/W : 0 Lux	Color : 3 Lux B/W : 0 Lux	Color: 1.5 Lux	Color: 1.5 Lux
Video Compression	H.264/JPEG Triple Streaming	H.264/JPEG Triple Streaming	H.264/JPEG Triple Streaming	MPEG4/MJPEG Dual Streaming	MPEG4/MJPEG Dual Streaming	MPEG4/MJPEG Dual Streaming
Max. Video Resolution / fps	720x480 at 30 fps	720x480 at 30 fps	1600x1200 at 15 fps	720x480 at 30 fps	1280x1024 at 10 fps	1280x1024 at 10 fps
Network	Wired	Wired	Wired	Wired	Wired	Wireless
Audio in	External	External	External	NA	Built in Microphone	Built in Microphone
N-Way Audio	2 way audio	2 way audio	2 way audio	NA	2 way audio	2 way audio
Alarm In /Out	1/1	1/1	1/1	1/1	1/1	1/1
3GPP Mobile / Smart Phone	Yes	Yes	Yes	Yes	Yes	Yes
Free Bundled Software 36 Channel	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support
Maxi Watch Professional Software	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Power	DC12V	DC12V	DC12V	DC12V	DC12V & POE (IEE802.3af)	DC12V

IP PTZ | IP CAMERA | IP BULLET | IP VANDAL DOME | CAMERA SERVER | IP SOFTWARE | HYBRID DVR | NVR | EXTERNAL NAS | EXTERNAL SCSI | CMS | POE



		FI	NE Network (Camera		
Model	TCMP-99	TCMP-99W	GP-100CB WGP-100-CB	GE-100CB WGE-100-CB	MD-D1200	MD-D1612
			○ · ■			
Image Sensor	1/4" OV Progressive Scan CMOS	1/4" OV Progressive Scan CMOS	1/4" Megaapixel CMOS Sensor	1/4" Megaapixel CMOS Sensor	1/4" Color CCD	1/4" Color CCD
Day & Night	Color	Color	Manual switch day & night via software	Color	Color	Color
IR LEDS	N/A	N/A	Yes	N/A	N/A	N/A
Minimum Illumination	Color: 1.0 Lux	Color: 1.0 Lux	0 Lux (with LED) 1 Lux (without LED)	1 Lux	1 Lux	1 Lux
Video Compression	MPEG4/MJPEG Dual Streaming	MPEG4/MJPEG Dual Streaming	H.264/JPEG / MPEG4 Triple Streaming	H.264/JPEG / MPEG4 Triple Streaming	MPEG4/MJPEG Dual Streaming	H.264/JPEG Triple Streaming
Max. Video Resolution / fps	640x480 at 30 fps	640x480 at 30 fps	1280x800 at 15 fps	1280x800 at 15 fps	720x480 at 30 fps	720x480 at 30 fps
Network	Wired	Wireless	Wired or Wirelss	Wired or Wirelss	Wired	Wired
Audio in	Built in Microphone	Built in Microphone	Built in Microphone & speaker	Built in Microphone & speaker	Built in Microphone	Built in Microphone
N-Way Audio	2 way audio	2 way audio	2 way audio	2 way audio	2 way audio	2 way audio
Alarm In /Out	1/1	1/1	1/1	1/1	1/1	1/1
3GPP Mobile / Smart Phone	Yes	Yes	Yes	Yes	Yes	Yes
Free Bundled Software 36 Channel	Yes, support	Yes, support	Yes, support 64 channel free bundled software	Yes, support 64 channel free bundled software	Yes, support	Yes, support
Maxi Watch Professional Software	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support	Yes, support
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Power	DC12V & POE (IEE802.3af)	DC12V	DC12V	DC12V	DC12V or POE (IEE802.3af)	DC12V or POE (IEE802.3af)

IR IP High Speed Dome

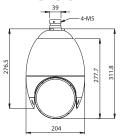




Key Features

- Unique Design, all in one Integrated Hi-Speed Dome
- Integrated with High Quality IR Leds, 100M normal distance, maximum distance 200M with Laser
- Powerful Mechanism Structure with shocking resistance
- 3 Level Lighting Protection
- IP 65 rated housing
- ONVIF compliance

Mechanical Dimension



Model	SP-PTIR737-IP
mage Sensor	1/4" Exview HAD CCD
Effective Pixels	PAL: 752(H) x 582(V)
- Income in Incid	NTSC: 768(H) x 494(V)
Horizontal Resolution	Color: 550TV Lines
	B/W: 680 TV Lines
Synchronization	Internal synchronization/power synchronization/external synchronization
Optical Lens	37X Optical Zoom, f=3.5(wide)-129.5mm(tele)
Digital Zoom	12x
Horizontal angle	42.5° to 1.19°
ris	F 1.7 to 3.9
llumination	0.1 Lux /1 / 3 Sec. 1.4 Lux /1/50 Sec PAL
Minimum Illumination Day/Night	0 Lux Day / Night / Auto
S/N Ratio	More than 50dB
	Niole Urian Sudb -3 to 28 dB 16 Steps
Gain Control	
Shutter /idea Output	1-1/10000 sec 22 Steps Gain/Shutter adjustable
Video Output	1VP-P 75 ohm negative polarity 2:1 Interlaced
Video System	PAL /NSTAC
Private Žone	8 Zones (According to the module)
Exposure Mode	Auto/Brightness first/Shutter first/Iris first/Manual, Gain/Shutter are adjustabe
Video effect	Art, B/W, Mirror, Frozen, Anti-shaking
White balance	Auto / Manual / Auto tracking
Back light	Open / Closed / Auto 360°Continuous
Pan Range	360°Continuous
Tilt Range	186° (-93°- 0° -93°) and 9 0°+ auto rotation can be set
Pan Speed	0.01°/S - 180°/S
Filt Speed	0.01°/S - 180°/S
Presets Speed	220°/S
Baud rate	1200/2400/4800/9600 bps
Protocol	AD PELCO-D PELCO-P PHILIPS VICON SAMSUNG DS etc.
Communication port	RS485 1200 m
Presets	128 Presets
Touring	8tours,24presets per tour, speed and time can be adjusted separately
Track	2 Track, 40 seconds per track
Swing	horizontal and vertical rotation, between two presets, 4 presets, back and forth, rotate at any speed
Combination motions	2 combinations, presets, touring, track are at any combination, speed, time can be set separately
Timing	Call the presets according to week, touring, track, combination motion, color to B/W,B/W to color,tracing,4 period per day
Stop and Stay	Stay 1-99 minutes, calling presets, tourings, trace, combination motions and rotation
Power on	Calling the motions before power off, presets, touring, traces, combination motions, rotation, tracking
Display	Calling the motions before power off, presets, touring, traces, confining time industry, treation, tracking Time, date, title, coordinates, temperature, booting info.motion info.
Menu language	Chinoso English monu
Title	One main title,1-16 presets title,8 Chinese or16 English characters
Alarm	4 inputs port, can extend to8 or 16.two group output, one is N.O., one is N.C. Contact Capacity is 0.5A/24V
After-alarm recovery	4 inputs port, can extend too or 16 two group output, one is N.C. Contact Capacity is 0.5AV24V 0-99min
Motion detection	Respond to the presets
Glass	
	Double layer optic glass
Shells	ROHS Aluminium, non-lead powder paint for outdoor, white/steel grey/green are options Automatic tracing/Remote upgrades are options, power is more than 30W, More than 200m effective distance
R lights	Automatic tracing/nemote upgrades are options, power is more than 30vv, More than 200m effective distance
Module structure	high strength structure of Integrated metal with 4 bearings
nstallation	Wall mounting, pendant mounting, various covers, brackets and power case are options
nstallation ports	40mm Through hole or G11/2 thread
Ports protection	3 Level surge protection for all the ports, can withstand some high voltage
Power consumption	AC24V±10% / 0.3-2A
Veight	11 kgs (packing included)
Norking temperature	-50° centigrade to 50° centigrade
Norking humidity	IP65
Network Protocols	10 / 100 Base—T
INELWOIK FIOLOCOIS	TCP / IP, DHCP, HTTP, DHCP, PPPoE, FTP, RTSP, DDNS, NTP
mage Frame Rate	30/25 fps (NTSC/PAL)
Compression Format	H.264 / JPEG
Video Bit Rate Adjust	CBR, VBR
Motion Detection	Yes, 3 different areas
Triggered Action	Yes, configurable
Simultaneous Connection	Up to 10
Software SDK	Provided upon customer request

Eagle Series (Indoor, Outdoor Type) IP Speed Dome WDR, D/N, 540 TVL H.264









■ Surface Mount

Key Features

- H.264/JPEG Streaming Network

- Wide Dynamic Range
 Support 3GPP/PDA Service
 Day Night + ICR, more than 540 TV Lines of Horizontal Resolution
- preset, sequence, patterm, panning
- automatically after a period of time without getting signal
- 8 programmable zones
- 220 presets with editable time
 24 privacy zones for EP-Q2036HW-IP,
 8 privacy masking EP-Q2026HW-IP for EP-Q2018HW-IP
 ■ Positioning accuracy up to 0.1 degree
 ■ 4 auto scans with 355 degree scan range

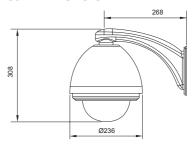
- 4 panning with up to 355 degree scan range
 Communication Interface: RS485/RS422

- 4 sequences, each one with 32 presets
- 4 pattern tours each one with up to 180 seconds of record
- Baud Rate: 2400/4800/9600/19200 bps
- Quick and easy to install in just a few seconds
 Auto running: allows the dome to return any
 Vicon, Molynx, Diamond, Kalatel,
 - Ernitec, Lilin, Panasonic (Pelco-Coaxitron, Manchester, Bi-Phase)

 Black liner for discreet surveillance

 - Built in 1500W lighting proof and surge proof
 Video Output: BNC/UTP
 Support Maxi-Watch Professional IP soft ware (option).
 - Free Bundle Basic 36 Channel Recording Software Provided
 - IP66 Rated
 - ONVIF compliance

Mechanical Dimension



Model		EP-Q2036HW-IP EP-I2036HW-SM-IP (Surface Mount) EP-I2036HW-CM-IP (In Ceiling)	EP-Q2026HW-IP EP-I2026HW-SM-IP (Surface Mount) EP-I2026HW-CM-IP (In Ceiling)	EP-Q2018HW-IP EP-I2018HW-SM-IP (Surface Mount) EP-I2018HW-CM-IP (In Ceiling)				
Image Sensor	r	\	1/4" SONY Exview HAD CCD	(8/				
TV System		PAL: 752 (H) x 582 (V); 2:1 interlace NTSC: 768 (H) x 494 (V); 2:1 Interlace						
Horizontal Re	esolution		More than 540 TV lines					
Synchronizat	ion	Internal / Ext	ernal V-lock	Internal / V-lock				
Optical Lens		36X Optical Zoom, f=3.4mm(wide) - 122.4mm (tele), F1.6 -4.5	26X Optical Zoom, f=3.5mm(wide) - 91.0mm (tele), F1.6 -3.8	18X Optical Zoom, f=4.1mm(wide) - 73.8mm (tele), F1.4 -3.0				
Digital Zoom		12X (up to 432X with optical zoom)	12X (up to 312X with optical zoom)	12X (up to 216X with optical zoom)				
Video Output		1.0Vp-p (syr	nc negative)	1.0Vp-p (sync negative), Y/C output				
Gain Control			Auto / manual (-3 to 28dB, 16 steps)	1113 3				
Minimum Illumination		0.1 Lux (Color) 0Lux (B/W)	0.09 Lux (Color) 0 Lux : B/W	0.07 Lux (Color) 0 Lux : B/W				
S/N ratio		≥ 50dB	> 50)dB				
BLC			On/OFF					
ELC		,	Auto: 1/50 - 1/10,000 sec. ; Manual : 22 step	S				
White Balance		A	uto (3000°K-7500°K) ATW (2000°K-10,000° Indoor, Outdoor, One-push, Manual	K)				
AE Compensation		Auto, Manual, Backlight compensation, EV compensation, priority mode, Bright, Slow AE	Auto, Manual, Backlight compensation, EV compensation, priority mode, Bright.					
EV Compens	ation		-10.5 +10.5dB (1.5 dBsteps)					
Focusing System		Auto (sensitivity: norm	ial, low), One-push AF, manual, Infinity, Interv	al AF, Zoom Trigger AF				
Day Night Fu	inction	Yes, with ICR Cut Filter						
Aperture Cor	ntrol	Auto / manual						
Preset		220 positions						
Focus		Auto / manual						
OSD Languad	ge	English, Italian, Spanish, German, French, Russian and Portuguese						
Operating Te	mperature	Indoor: -10°C to + 50°C ('14°F to 122°F) Outdoor: -40°C to + 70°C (-40°F to 158°F)						
Storage Temp	perature	-20°C to + 60°C (- 4°F to 140°F)						
Power Supply	у	AC24V, 50/60Hz						
Power Const	imption	Indoor 10w, outdoor 50w						
	Ethernet		10 / 100 Base–T					
Notwork	Network Protocols	TCP / IP, DHCP, HTTP, DHCP, PPPOE, FTP, RTSP, DDNS, NTP						
Network		30/25 fps (NTSC/PAL)						
lmage Frame		H.264 / JPEG						
Image Frame Compression		CBR, VBR						
Image Frame Compression Video Bit Rat		Yes, 3 different areas						
Image Frame Compression Video Bit Rat Motion Dete			Yes, configurable					
Image Frame Compression Video Bit Rat Motion Dete Triggered Act	tion							
mage Frame Compression Video Bit Rat Motion Dete Triggered Act Simultaneous	tion s Connection		Up to 10					
Image Frame Compression Video Bit Rat Motion Dete Triggered Act Simultaneous Software SDI	tion s Connection K							
Image Frame Compression Video Bit Rat Motion Dete Triggered Act Simultaneous Software SDI Mechanical	tion s Connection		Up to 10 Provided upon customer request					
Image Frame Compression Video Bit Rat Motion Dete Triggered Act Simultaneous Software SDI Mechanical Pan Range	tion s Connection K		Up to 10 Provided upon customer request 360° continuous					
Image Frame Compression Video Bit Rat Motion Dete Triggered Act Simultaneous Software SDI Mechanical Pan Range Tilt Range	tion s Connection K Specification		Up to 10 Provided upon customer request 360° continuous 90 degrees					
Software SDI Mechanical Pan Range Tilt Range Manual Pan S	tion s Connection K Specification		Up to 10 Provided upon customer request 360° continuous 90 degrees 0.1- 160 degree/ sec.					
Image Frame Compression Video Bit Rat Motion Dete Triggered Act Simultaneous Software SDI Mechanical Pan Range Tilt Range	tion s Connection K Specification Speed		Up to 10 Provided upon customer request 360° continuous 90 degrees					

Accessories For EP Speed Domes

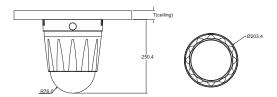




EP-803

Surface Mount For Indoor Housing Use

- Bubble: (standard) clear cover with black insert
- Vandal proof (option)
- Upper Housing Color: Cool Gray
- Construction: Hard Plastic for the upper housing, acrylic bubble
- Weight (includes PTZ mechanism module): 2.3 kgs

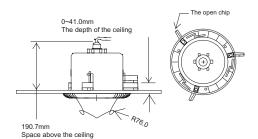




EP-802

Flush Mount For Indoor Housing Use

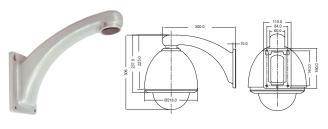
- Bubble: standard: clear cover with black inserts
- Vandal proof (option)
- Upper Housing Color: Black
- Construction: Hard Plastic for the upper housing, acrylic bubble
- Weight (includes PTZ mechanism module): 2.5 kgs



EP-W804

Wall Mount Bracket

- Material: Aluminum
- Dimension: 300mm (L) x 110mm(W) x 160mm (H)
- Weight: 1.2 Kgs

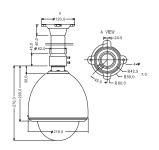


EP-P805

Pendant Mount Bracket

- Material: Aluminum
- Weight: 1.3 Kgs



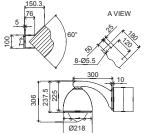


EC-01

Corner Mount

- Material: Aluminum
- Weight: 2.0 Kgs



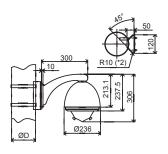


EP-P02

Pole Mount

- Material: Aluminum
- Weight: 1.1 Kgs





NETCD-H (H.264)

Network Card H.264



- Support RS-232
- PTZ control support
- Support PDA, 3GPP Service

AT-100

Auto Tracking Box



- Up to 4 alarm inputs; 2 alarm outputs
- Auto search and track on moving object, with adjustable precision and tracking state
- Auto return to home position/preset and keep tracking after a programmable interval when object is out of adjustable area
- Hi-precision motor providing stable and precise performance
- P/T speed adjustable as per zoom times;
- Protocols supported Pelco D/P with adjustable baud rate;
- Interface RS485
- Power 9V~12VDC

H.264 Megapixel IP Camera

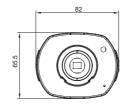


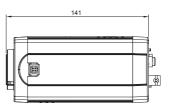


Key Features

- 720P @ 30 FPS
- 2.0 Megapixel
- H.264/ MJPEG/MPEG4 compression
- Video motion detection
- Support 2 Way Audio
- Support 3Gpp / PDA service
- Easy set up with UPnP support
- \blacksquare Expansion SD back up for data storage
- SDK for software integration provided
- Free Bundled Basic 36 Channel Recording Software Provided
- Support Maxi-Watch Professional IP software (option)
- Wireless (option) TCP-MH802WI TCP-MH802DN/WI
- ONVIF compliance

Mechanical Dimension





Model		TCP-MH802	TCP-MH802DN		
Image	Device	1/3" Micron Progressive	e Scan CMOS (2M-Pixel)		
	Color	0.5 Lux	0.5 Lux		
Minimum	B/W	NA	0.00001 Lux		
Illumination	IR Sensitivity	NA	Yes		
Lens	Lens Mount	CS N	1ount		
Synchronization	Sync. System	Inte	rnal		
Day/Night	Mechanical IR	/-	Vislttiis-l		
Functions	Cut Filter	-n/a-	Yes, with automatic switch over		
	Video setting	Brightness, Contrast, S	Sharpness, Night Mode		
	Motion Detection	Yes (3 V	/indows)		
	Electronic Shutter	Au	uto		
Functions	Flickerless	1/5 ~1/40	0.000 sec.		
	BLC	Yes (O	N/OFF)		
	AGC	Au	uto		
	White Balance	Au	uto		
S/N Ratio		>4.	2dB		
	Network Compression	H.264 / M-Ji	PEG / MPEG4		
	Picture Resolution	1600x1200, 1280x1024, 1280x960, 1280x7	20, 800x600,640x480, 320x240, 176x120		
	Adjustable Bit Rate	VBR,	CBR		
Video Quality		1600x120	00@15FPS		
1	Image Frame Rate	1280x102	24@22FPS		
	illiage Flame Rate	1280x960@25FPS			
		1280x72	0@30FPS		
	Streaming 1	H.264 o	r MJPEG		
Video Streaming	Streaming 2	H.264 or MJPEG			
	Streaming 3(3GPP)	MPEG4 (3GPP)			
Audio Input	Compression	G.	711		
Audio iriput	Audio Line Input	Built-in MicroPhone			
Audia Outaut	Compression	G.7	711		
Audio Output	Audio Line Output	1			
Alarm	Digital Input	1			
Aldilli	Digital Output	1 (Rela	ay out)		
Reset Button			es		
LED		Power and I	Network LED		
1/0		1 in / 1 F	Relay out		
RS-485		Y	es		
Network	Ethernet Port		(10/100 Base-T)		
INCLVVOIK	Protocol	HTTP, TCP/ IP, UDP, SMTP, FTP, PP	PoE, DHCP, DDNS, NTP, UPnP, 3GPP		
	Web Browser		xplorer 6.0 or above		
Software	SDK	Y	es		
	Security	Password Protection: Confi	gured by the Administrator		
Operating	Temperature	0°C -	-40°C		
	Power Requirement	DC12V & PoE (IEEE 8	B02.3af) with Class 3		
Power	Power Consumption		A, 5.5W		
Dhusiaal	Dimensions (W x H x D)		m(H) x 137mm(D)		
Physical	Weight		0 g		
Certficate			, CE		

 $[\]blacktriangleright$ Specifications are subjected to change without prior notice.

H.264 IP Camera



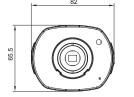


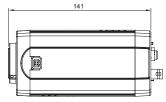
Key Features

- High definition 540TV Lines with 1/3" Hi-Sensitivity technology
- Supreme day & night function with automatic ICR filter TCP-HPDN960U
- TCP-HPDN960WIU
- Auto IRIS control, auto white balance, back light compensation available
- Triple streaming H.264 / MPEG4 / JPEG compression
- Remote Surveillance through Internet or Intranet
- Event triggered picture can be sent via FTP or E-mail

- PPPoE or DDNS support
- Video motion detection
- Support 3GPP / PDA service
- Easy set up with UPnP support
- Two way audio integration
 Support Maxi-Watch Professional IP software (option).
- Free Bundle Basic 36 Channel Recording Software Provided
- SDK for software integration provided
- ONVIF compliance

Mechanical Dimension





Model		TCP-HPC960	TCP- HPC960WI	TCP- HPDN960	TCP- HPDN960WI		
	Device		1/3" Hi-Se	ensitivity CCD			
		NTSC: 768(H) x 492(V)	NTSC: 768(H) x 492(V)	NTSC: 768(H) x 492(V)	NTSC: 768(H) x 492(V)		
lmage	Effective Pixels	PAL: 752(H) x 582(V)	PAL: 752(H) x 582(V)	PAL: 752(H) x 582(V)	PAL: 752(H) x582(V)		
	Horizontal Resolution	560 TVL	560 TVL	560 TVL	560 TVL		
	Color	0.1	Lux	0.1	Lux		
Minimum	B/W	N/	Α	0.1	Lux		
llumination	IR Sensitivity	N/	Α	850	nM		
_ens	Lens Mount			ĊS			
Synchronization	Sync. System		Int	ternal			
Day/Night	Mechanical IR	N	^	Vos with autom	atic switch over		
Functions	Cut Filter	NA Yes, with automatic switch ov			iatic switch over		
	Video Setting			rast, Saturation, Hue			
	Motion Detection		Yes (3	windows)			
	Electronic Shutter			Auto			
unctions	BLC		Yes (ON/OFF)			
	AGC		Auto				
	White Balance		Д	Auto			
	Auto Iris Control	Auto		Auto			
S/N Ratio		>48dB					
	Network Compression	H.264					
		Full D1 (NTSC: 720 x 480 PAL: 720 x 576)					
	Picture Resolution	Resolution 4 CIF (704x480, 704x576)					
Video Quality		CIF: (NTSC: 320 x 240 PAL: 352 x 288)					
		QCIF: (NTSC: 176 x 120 PAL: 176 x 144)					
	Adjustable Bit Rate	CBR,VBR					
	Image Frame Rate		30/25 fps	s (NTSC/PAL)			
Audio Input	Compression		AD	PCM			
Audio iriput	Audio Line Output		Built-in N	MicroPhone			
Audio Output	Compression		AD	PCM			
Addio Odiput	Audio Line Output			1			
Alarm	Alarm Input	2					
AldIIII	Alarm Output			2			
Reset Button				Yes			
LED				, Network LED			
Network	Ethernet			se-T) RJ-45 connector			
INELWOIK	Protocol			TP, SMTP, DDNS, PPPoE			
	Web Browser		Microsoft Internet I	Explorer 6.0 or above			
Software	SDK			Yes			
	Security		Password protection: config				
T	Operating			C ~ 45°C			
Temperature	Storage	·	-30°C	~ +60°C			
Power	Power Requirement	DC12V or POE (IEEE802.3af)	DC12V	DC12V or POE(IEEE802.3af)	DC12V		
	Power Consumption	LAN: 450mA, 5.4W	WLAN: 550mA, 5.4W	LAN: 450mA, 5.4W	WLAN: 550mA, 5.4W		
Physical	Dimensions (W x H x D)			mm(H) x 137mm(D)			
Physical	Weight		4	50 g			
Approvals	Certificate			NA			
Certficate			FC	C, CE			

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

MPEG4/MJPEG IP Camera



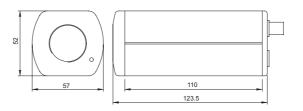


Key Features

- Internal build-in 1/3" CCD
- Remote Surveillance Through Internet or Intranet
- Dual streaming MPEG4 & MJPEG compression
- Event triggered picture can be sent via FTP or E-mail
- $\hfill\blacksquare$ System base on Java platform for better stability
- Remote recordingPPPoE or DDNS support
- Video motion detection
- Support 3GPP / PDA service
- Easy set up with UPnP support
- Support 2-way audio
- Day Night Function With ICR Filter Mechanism
- Support Maxi-Watch Professional IP soft
- ware (option).

 Free Bundle Basic 36 Channel Recording Software Provided
- SDK for software integration provided

Mechanical Dimension



Model		TCP-690DNU			
	Device	1/3" SONY SuperHAD CCD			
lmaga	Effective Pixels	NTSC: 768(H) x 492(V)			
Image	Effective Pixels	PAL: 752(H) x 582(V)			
	Horizontal Resolution	540 TVL			
Minimum	Color	0.1 Lux			
Illumination	B/W	0.05 Lux			
IIIuIIIIIauoii	IR Sensitivity	850nM			
Lens	Lens Mount	CS			
Synchronization	nchronization Sync. System Internal				
Day/Night	Mechanical IR	Very wish automobile wish and			
Functions	Cut Filter	Yes, , with automatic switch over			
	Video Setting	Brightness, Contrast, Saturation. Hue			
	Motion Detection	Yes (3 windows)			
	Electronic Shutter	1/60(50),1/100,1/250,1/500,1/1000,1/2000,1/5000,1/10000 ~1/100,000 sec			
unctions	BLC	Yes			
	AGC	Auto			
	White Balance	Auto			
	Auto Iris Control	Yes			
S/N Ratio		> 48 dB			
	Network Compression	Dual Streaming MPEG-4/MJPEG			
	·	Full D1 (NTSC: 720 x 480 PAL: 720 x 576)			
	Picture Resolution	Resolution 4 CIF (704x480, 704x576)			
Video Quality	ricture Resolution	CIF: (NTSC: 320 x 240 PAL: 352 x 288)			
• • •		OCIF: (NTSC: 176 x 120 PAL: 176 x 144)			
	Adjustable Bit Rate	CBR,VBR			
	Image Frame Rate	30/25 fps (NTSC/PAL)			
Audia Innut	Compression	ÂDPCM			
Audio Input	Audio Line Output	Built-in MicroPhone			
Audio Output	Compression	ADPCM			
Audio Output	Audio Line Output	1			
Alarm	Alarm Input	2			
Alaiiii	Alarm Output	2			
Reset Button		Yes			
LED		Power LED, Network LED			
Network	Ethernet	Ethernet(10/100Base-T) RJ-45 connector			
INGLWOIK	Protocol	TCP/IP, ICMP, HTTP, FTP, SMTP, DDNS, PPPoE			
	Web Browser	Microsoft Internet Explorer 6.0 or above			
Software	SDK	Yes			
	Security	Password protection: configured by the administrator			
T	Operating	-10°C~45°C			
Temperature	Storage	-30°C~+60°C			
Douger	Power Requirement	12V or POE (IEEE802.3af) with class3			
Power	Power Consumption	LAN: 450mA, 3W			
Physical	Dimensions (W x H x D)	80mm(W) x 65mm(H) x 137mm(D)			
Physical	Weight	450 g			
Certficate		FCC, ČE			

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

H.264 IP Wide Dynamic Camera

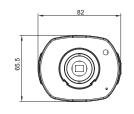


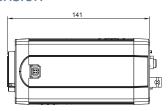


Key Features

- D-WDR system
- Next Generation 3D DNR
- Sens-Up function
- Support video out
- Power over Ethernet available
- H.264/ JPEG / MPEG4 compression
- SD card backup
- 2-way audio
- Support Cell Phone/PDA/3GPP
- Triple Streaming
- Wireless available
- SDK for Software Integration
- Free Bundled Basic 36 channel AP Client Software Provided
- Wireless (option) TCP-IPWD700 DN/WI
- ONVIF compliance

Mechanical Dimension





Model		TCP-IPWD700DN
	Device	1/3" Sharp CCD
lmaga	E((', ') ')	NTSC: 768(H)x494(V)
lmage	Effective Pixels	PAL: 752(H)x582(V)
	Horizontal Resolution	560TVL
	Color	0.3 Lux
Minimum	B/W	0.00001 lux
Illumination IR Sensitivity		Yes
Lens	Lens Mount	CS Mount
Synchronization	Sync. System	Internal
Day/Night	Mechanical	A STATE OF THE STA
Functions	IR Cut Filter	Yes, with automatic switch over
	Video Setting	Brightness, Contrast, Saturation, Hue, sharpness, AES, Manual Shutter, IRIS Level, Day and night, Night Mode, 3D DNR, WDI
	Motion Detection	Yes (3 windows)
	Electronic Shutter	1/60(50), 1/100, 1/250, 1/500, 1/2000, 1/5000, 1/10,000, 1/100,000
Functions	BLC	Yes(ON/OFF), HLBLC
	AGC	Yes
	White Balance	Auto
	Auto Iris Control	Yes
S/N Ratio	S/N Ratio	More than 48dB
	Network Compression	H.264/ JPEG / MPEG4 compression
		Full D1 (NTSC:720 x 480 PAL: 720 x 576)
	Picture Resolution	4 CIF (704x480, 704x576)
		CIF (NTSC: 352 x 240 PAL: 352 x 288)
Video Quality		QCIF (NTSC: 176 x 120 PAL: 176 x 144)
	Adjustable Bit Rate	CBR, VBR
		Full D1 (NTSC:720 x 480 PAL: 720 x 576)
	Image Frame Rate	4 CIF (704 x 480, 704 x 576)
		CIF (NTSC: 352 x 240 PAL: 352 x 288)
		QCIF (NTSC: 176 x 120 PAL: 176 x 144) at 30/25(NTSC/PAL)
Audio Input	Compression	G.711
Audio iriput	Audio Line Output	Built-in MicroPhone
Audio Output	Compression	G.711
Audio Output	Audio Line Output	1
Alarm	Alarm Input	1
Alaitti	Alarm Output	1 (Relay out)
Reset Button		Yes
LED		Signal LED, Power LED
Network	Ethernet	Ethernet (10/100Base-T) RJ-45 connector
INCLVVOIR	Protocol	TCP-IP, UDP, ICMP, HTTP, FTP, SMTP, DDNS, PPP0E, 3GPP, UPnP, NTP
	Web Browser	Microsoft Internet Explorer 6.0 or above
Software	SDK	Yes
	Security	Password protection: configured by the administrator
Temperature Op		0 °C ~ 40 °C
	Power Requirement	DC12V
Power	Power Consumption	DC 12V: 240mA, 2.8W
Dhysical	Dimensions (WxHxD)	80mm(W) x 65mm(H) x 137mm(D)
Physical	Weight	290 g
Certficate		FCC, ČE

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

H.264 Megapixel IP Vandal Dome



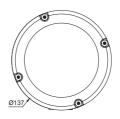


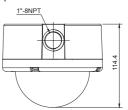
Key Features

- 2.0 Megapixel
- 1/3" Micron Progressive Scan CMOS Megapixel
- Integrated 2.7~9 mm DC Iris lens

- Video motion detection
- Power over Ethernet (IEEE802.3af)
- Dual streaming H.264 / MJPEG/ MPEG4 compression format
- Support 3GPP / PDA Service
- True day & night with Mechanism IR Cut Filter
 IP 66 rated weatherproof housing
 Up to 1600x1200 resolution at 15 fps
 With SD Back up
 Free bundled 36 channel recording
 software
 - SDK For Software Integration
 - ONVIF compliance

Mechanical Dimension





Model		CDV-3VM501		
mageDevice		1/3" Micron Progressive Scan CMOS		
	Color	0.5 Lux		
	B/W	0 Lux		
Minimum	IR Sensitivity	850nM		
Illumination	IR LED	IR LED x18 pcs		
marimation	CDS Sensor	Yes		
	IR Working Distance	12 M		
	Lens	Varifocal 2.7 ~ 9mm		
Lens		127.5°(D)		
LCIIS	Viewing Angle	101°(H)		
		75°(V)		
Camera Angle	X (Panning)	180°		
Adjustment	Y (Tilting)	75°		
Synchronization	Sync. System	Internal		
Day/Night	Mechanical			
		Yes		
Functions	IR Cut Filter	District Control Character		
	Video setting	Brightness, Contrast, Sharpness		
	Motion Detection	Yes (3 Windows)		
	Electronic shutter	1/60(50), 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10000~1/100,000 sec		
Functions	Flickerless	Yes		
	BLC	Yes (ON/OFF)		
	AGC	Auto		
	White Balance	Auto		
S/N Ratio	Willie Balarice	>42dB		
3/IN Natio	Video Communicion			
	Video Compression	H.264/ JPEG/ MPEG4 (3GPP only)		
	Picture Resolution	1600x1200, 1280x1024, 1280x960, 1280x720		
		800x592, 640x480, 320x240, 176x144		
Video Quality	Adjustable Bit Rate	VBR,CBR		
video Quality		1280x720 at 30fps		
		1280x960 at 25fps		
	Image Frame Rate	1280x1024 at 22fps		
	Image Hame Nate	1280x1200 at 15fps		
	C:	800x600, 640x480, 320x240, 176x120 at 30/25 (NTSC/PAL) fps		
Video	Streaming 1	H.264 or MJPEG		
Streaming	Streaming 2	H.264 or MJPEG		
Jacaning	Streaming 3	MPEG4 (3GPP)		
	Compression	G.711		
Audio Input	Audio Line Input	1		
	Compression	G.711		
Audio Output	Audio Line Output	3.711		
	Alarm Input	1		
External I/O		!		
	Alarm Output	1(Relay out)		
Reset Button		Yes		
Casing Mount Ty	pes	Ceiling mount, Wall mount (option)		
IP66 Rated		Weatherproof casing with IP66 standard		
NI-to condi	Ethernet	Ethernet (10/100 Base-T) RJ45 Connector		
Network	Protocol	HTTP, TCP/ IP, UDP, SMTP, FTP, PPPOE, DHCP, DDNS, NTP		
	Web Browser	Microsoft Internet Explorer 6.0 or above		
Software	SDK	Yes		
JOILWAIE				
	Security	Password Protection: Configured by the Administrator		
emperature	Operating	-10°C~40°C		
cperature	Storage	-30°C∼+60°C		
Downer	Power Requirement	DC12V & PoE (IEEE802.3af) with Class 3		
Power	Power Consumption	560mA, 6.12W		
ower				
	Dimensions (Ø x H)			
Physical	Dimensions (Ø x H) Weight	(W)137 x (H)103 700g		

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

H.264 IP Vandal Dome Indoor / Outdoor CAMERA





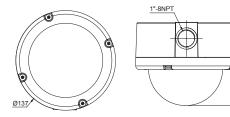
Key Features

- D-WDR
- Support 3D DNR
- Sense up function
- Produce high quality video images with 560 TVL
- Unique design with weatherproof IP66 rated housing
- Compact vandal resistant constructionTriple streaming H.264 / JPEG/ MPEG4
- Triple streaming H.264 / JPEG/ MPEG4 compression
- Suitable for indoor & outdoor use with roof dome cover
- Support 3GPP / PDA service
- Easy set up with UPnP support
- DSP controls for BLC, white balance and gain control
- Burglarproof screw
- Support Maxi-Watch Professional IP software (option).
- Free Bundle Basic 36 Channel Recording Software Provided
- SDK for software integration provided

114.4

■ ONVIF compliance

Mechanical Dimension



Model		CDV-3VWD960
	Device	1/3" CCD
lmage	Effective Pixels	NTSC: 768(H) x 494(V)
3	Effective Pixels	PAL: 752(H) x 582(V)
	Horizontal Resolution	560TVL
	Color	0.1 Lux
Minimum	B/W	0Lux
llumination	CDS Sensor	Yes
	IR Sensitivity	Yes
ens	Lens Mount	3.7~12mm vari-focal lens
Synchronization	Sync. System	Internal
Day/Night	Mechanical	
unctions	IR Cut Filter	Yes
	Video setting	Brightness, Contrast, Saturation, Hue, Sharpness, AES, Manual Shutter, IRIS Level
	Motion Detection	Yes (3 windows)
	Electronic Shutter	Auto
unctions	Fixed Shutter	1/60(50), 1/100, 1/250, 1/500, 1/2000, 1/5000, 1/10,000, 1/100,000
	BLC	Yes (ON/OFF), HLBLC
	AGC	Auto
	White Balance	Auto
	Auto Iris Control	Yes
5/N Ratio	S/N Ratio	NA
	Compression	Triple Streaming H.264/MJPEG/MPEG-4
		Full D1 (NTSC: 720 x 480 PAL: 720 x 576)
√ideo	Picture Resolution	4 CIF (704x480, 704x576)
Compression		CIF: (NTSC: 352 x 240 PAL: 352 x 288)
Compression		QCIF: (NTSC: 176 x 120 PAL: 176 x 144)
	Bit Rate	VBR, CBR
	Image Frame Rate	30/25 (NTSC/PAL) fps
P. 1	Compression	G.711
udio Input	Audio Line Output	1
	Compression	G.711
Audio Output	Audio Line Output	
	Alarm Input	1
Alarm	Alarm Output	1 (Relay out)
Reset Button	1	Yes
LED		Network LED
	Ethernet	Ethernet(10/100Base-T) RJ-45 connector
Network	Protocol	HTTP, TCP/IP, UDP, SMTP, FTP, PPPGE, DHCP, DDNS, NTP, UPnP
	Web Browser	Microsoft Internet Explorer 6.0 or above
Software	SDK	Yes
	Security	Password protection: configured by the administrator
		0 °C ~ 40 °C
Operating	lemperature	0 0 10 0
	Temperature	-30 °C ~ 60 °C
Storage		-30 °C ~ 60 °C 12V or POF
Storage	Power Requirement	12V or POE
Operating Storage Power	Power Requirement Power Consumption	12V or POE 490mA
Storage	Power Requirement	12V or POE

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

MPEG4/MJPEG Megapixel IP Vandal Dome Camera

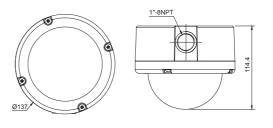




Key Features

- 1.3 Megapixel
- 1/4" OV Progressive Scan CMOS Integrated 3.7~12 mm lens
- True day & night with Mechanism IR Cut Filter ■ IP 66 rated weatherproof housing
- Up to SXGA resolution at 10 fps
- Video motion detection
- Power over Ethernet (IEEE802.3af)
- Dual streaming MPEG4/MJPEG compression format
- Support 3GPP / PDA service
- With SD Back up
- Free bundled 36 channel recording software
- Support Maxi-Watch Professional IP Software

Mechanical Dimension



Model		CDV-3VM301	
lmage	Device	1/4" OV Progressive Scan CMOS	
	Color	1.5 Lux at F1.2	
Minimum	B/W	0 Lux at F1.2	
Illumination	IR Sensitivity	850nM	
	IR LED	IR LED x12 (850nm)	
	IR Working Distance	10M	
	Lens	Varifocal 3.7~12mm Lens	
	ECHS	56.89°(V)	
Lens	Viewing Angle	76.92°(H)	
	Viewing / trigic	97.61°(D)	
Camera Angle	X (Panning)	180°	
Adjustment	Y (Tilting)	75 °	
Synchronization	Sync. System	Internal	
Day/Night	Mechanical IR	intenial	
Functions	Cut Filter	Yes, with automatic switch over	
runctions		Brightness, Contrast, Exposure, Sharpness	
	Video Setting		
From table to	Motion Detection	Yes (3 Windows)	
Functions	Electronic shutter	1/60 (50), 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10000~1/100,000 sec	
	Flickerless	Yes Yes	
	AGC	Auto	
	White Balance	Auto	
S/N Ratio		>42 dB	
	Network Compression	Dual Streaming MPEG4/MJPEG	
		SXGA (1280x1024)	
	Picture Resolution	VGA (640x480)	
Video Quality	ricture resolution	CIF (320x240)	
		QCIF(160x120)	
	Adjustable Bit Rate	CBR,VBR	
	Image Frame Rate	1280x1024 at 10 fps	
	illiage Flaille Nate	VGA (640x480), CIF (320x240), QCIF (160 X 120) at 30/25 fps (NTSC/PAL)	
A	Compression	ADPCM	
Audio Input	Audio Line Input	1	
Audia Outrout	Compression	ADPCM	
Audio Output	Audio Line Output	1	
A.I.	Alarm Input	1	
Alarm	Alarm output	1(Relay)	
Reset Button		Yes	
Casing	Mount Types	Ceiling mount, Wall mount (option)	
IP66 Rated	,	Weatherproof casing with IP66 standard	
	Ethernet	Ethernet (10/100 Base-T) RJ45 Connector	
Network	Protocol	HTTP, TCP/IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, 3GPP, UPnP, RTP, RTSP, ICMP, ARP	
	Web Browser	Microsoft Internet Explorer 6.0 or above	
Software	SDK	Yes Yes	
JOILWAIC	Security	Password Protection: Configured by the Administrator	
	Operating	-10°C~40°C	
Temperature	Storage	-10 C~40 C -30°C~+60°C	
Power	Power Requirement	DC12V & PoE (IEEE802.3af) with Class 3	
rowei			
Dl	Power Consumption	490 mA, 5.8W	
Physical	Dimensions (ØxH)	(W)137 x (H)103	
C . C .	Weight	700g	
Certficate		FCC, CE	

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

MPEG4/MJPEG IP Vandal Dome









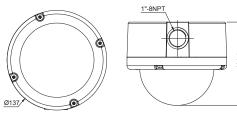
CDV-3V930HU CDV-3V930HDNU

CDV-3F930HU

Key Features

- Produce high quality video images with 420 Easy set up with UPnP support TVL or 540 TV Lines horizontal resolution Day & night switchable with ICR
- Unique design with weatherproof IP66
- rated housing
- Compact vandal resistant construction
- Dual streaming MPEG4 & JPEG compression Support Maxi-Watch Professional IP ■ Suitable for indoor & outdoor use with roof
- dome cover
- Support 3GPP / PDA service
- DSP controls for BLC, white balance and gain control
- mechanism for CDV-3V930HDNU
- Burglarproof screw
- IP 66 Rated housing
- software (option).
- Free Bundle Basic 36 Channel Recording Software Provided
- SDK for software integration provided

Key Features



Model		CDV-3V930HDNU	CDV-3V930HU	CDV-3F930HU	
	Device		1/3" SONY CCD		
	Efficiency Division	PAL: 752(H)x582(V)	PAL: 752(H)x582(V)	NTSC: 752(H)x582(V)	
Image	Effective Pixels	NTSC: 768(H)x494(V)	NTSC: 768(H)x494(V)	NTSC: 768(H)x494(V)	
J	Horizontal Resolution	Color: 540 TVL B/W : 600 TVL	540 TVL	540 TVL	
	Color	Color: 0.1 Lux	Color: 0.1 Lux	Color: 0.1 Lux	
Minimum	B/W	0Lux	NA	NA	
Illumination	CDS Sensor	Yes	NA	NA	
	IR Sensitivity	850nM		VA	
Lens	Lens Mount	3.7~12mm v	vari-focal lens	3.6(standard), 4.3mm, 6mm, 8mm, 12mm (option)	
Synchronization	Sync. System		Internal	(-)	
Day/Night	Mechanical IR	Ves	Color or coft war	Day Night (antion)	
Functions	Cut Filter	Yes	Color or software	e Day Night (option)	
	Video setting		Brightness, Contrast, Saturation, Hue		
	Motion Detection		Yes (3 windows)		
	Electronic Shutter	1/60(50), 1/100, 1/2	250, 1/500, 1/1000, 1/2000, 1/5000, 1/100	00~1/100,000 sec	
Functions	BLC		Yes (ON/OFF)		
	AGC		Auto		
	White Balance		Auto		
	Auto Iris Control	DC Iris	DC Iris	NA	
S/N Ratio	S/N Ratio		> 48 dB	1	
	Network Compression	Dual Streaming MPEG-4/MJPEG			
	,	Full D1 (NTSC: 720 x 480 PAL: 720 x 576)			
Video	Distance Described	Resolution 4 CIF (704x480, 704x576)			
Compression	Picture Resolution		CIF: (NTSC: 320 x 240 PAL: 352 x 288)		
'		QCIF: (NTSC: 176 x 120 PAL: 176 x 144)			
	Bit Rate		VBR,CBR		
	Image Frame Rate		30/25 fps (NTSC/PAL)		
A 1' 1 1	Compression		ADPCM		
Audio Input	Audio Line Output		1		
A 1: O	Compression	ADPCM			
Audio Output	Audio Line Output		1		
Alarma	Alarm Input		1		
Alarm	Alarm Output	1(Relay out)			
Reset Button			Yes		
LED			Power LED, Network LED		
IP66 Rated			Weatherproof casing with IP66 standard		
NI i	Ethernet		Ethernet(10/100Base-T) RJ-45 connector		
Network	Protocol	HTT	P, TCP/IP, SMTP, FTP, PPPoE, DHCP, DDNS, N	TP, UPnP	
	Web Browser		Microsoft Internet Explorer 6.0 or above		
Software	SDK		Yes		
	Security	Password protection: configured by the administrator			
- .	Operating	-10°C ~ 45°C			
Temperature	Storage	-30°C ~ +60°C			
D	Power Requirement	DC12V or POE (IEE802.3af)			
Power	Power Consumption		490mA, 5.8W		
DI : I	Dimensions (W x H x D)		(W)137 x (H)103		
Physical	Weight	800 q			
Certficate	- 3 -	FCC, CE			

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

H.264 Megapixel IR IP Camera



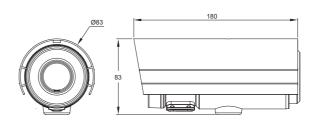


Key Features

- 2.0 Megapixel 1600 x 1200
- 1/3" Progressive Scan CMOS
- Integrated 3.6~16 mm lens
- True day & night with Mechanism IR Cut Filter
- IP 66 rated weatherproof housing Up to 1600x1200 resolution at 15 fps

- Video motion detectionDC12V or Power over Ethernet (IEEE802.3af)
- Triple streaming H.264 / JPEG / MPEG4 compression format
- Support 2 Way Audio
- Support cell phone / PDA / 3GPP
- Free bundled 36 channel recording software
- SDK For Software Integration
- Support Maxi-Watch Professional IP Software (option)
- ONVIF compliance

Mechanical Dimension



Model		TCP-VM501	
Image Device		1/3" Micron Progressive Scan CMOS	
	Color	0.5 Lux	
	B/W	0 Lux (LED on)	
Minimum	IR Sensitivity	850nM	
llumination	IR LED	IR LED x 35 pcs	
nariii adon	CDS Sensor	Yes, with automatic switch over	
	IR Working Distance	20 M	
	Lens	Varifocal 3.6 ~ 16mm	
	Lens	100° (D)	
ens	Viewing Angle	75.4° (H)	
	Viewing Angle	73.4 (1) 54.9° (V)	
`washrani=ation	Cups Customs		
	Sync. System	Internal	
Day/Night	Mechanical IR	Yes	
unctions	Cut Filter		
	Video setting	Brightness, Contrast, Sharpness, Night Mode	
	Motion Detection	Yes (3 Windows)	
	Electronic Shutter	Auto	
unctions	Flickerless	Yes	
	BLC	Yes (ON/OFF)	
	AGC	Auto	
	White Balance	Auto	
5/N Ratio		>42 dB	
	Network Compression	H.264 / JPEG /MPEG4 Compression Format	
	Picture Resolution	1600x1200, 1280x1024, 1280x960,1280x720, 800x600, 640x480, 320x240, 176x120	
	Bit Rate	VBR, CBR	
/ideo Quality		1600x1200@15FPS	
riaco quanty	1280x1024@22FPS		
	Image Frame Rate	1280x960@25FPS	
		1280x720@30FPS	
	Streaming 1	H.264 or MJPEG	
/ideo Streaming		H.264 or MIPEG	
naco sucaniing	Streaming 3	MPEG4	
	Compression	6711 G.711	
Audio Input	Audio Line Input	G./II	
		G.711	
Audio Output	Compression	9./11	
	Audio Line Output	1 V	
external I/O	Reset Button	Yes	
	LED	Network LED	
0		1 relay in / 1 relay out	
P66 Rated		Weatherproof casing with IP66 standard	
Network	Ethernet	Ethernet (10/100 Base-T), RJ45 Connector	
*CCV*OIN	Protocol	http, tcp/ip, udp, smtp, ftp, ppp0e, dhcp, ddns, ntp, 3gpp, upnp, rtp, rtsp, icmp, arp	
	Web Browser	Microsoft Internet Explorer 6.0 or above	
oftware	SDK	Yes	
	Security	Password Protection: Configured by the Administrator	
Operating Tempe	rature	0 °C ~ 40 °C	
	Power Requirement	DC 12V & PoE(IEEE802.3af) with class 3	
ower	Power Consumption	450mA, 6.2W	
	Dimensions (Ø x L)	83mm(Ø) x 180mm(L)	
	2 (D / L/	700 q	
Physical	Weight	700 α	

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

H.264 WDR IP Camera

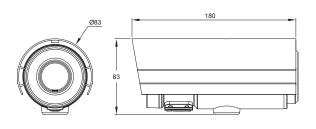




Key Features

- D-WDR
- Support 3D DNRSens-Up Function
- IP66
- External Vari-focal lens adjustment
- True Day/Night Function
 Mechanism IR Cut Filter available
- IR Distance: 20 Meter
- H.264/MJPEG/MPEG4 compression
- Support cell phone/PDA/3GPP
- Triple streaming
- SDK for software integration
 Free Bundle 36 Channel Recording Software
- 8 Step shutter Adjustment
 Free bundled basic 36 Channel recording software provided
- Support Maxi-Watch Professional IP software (option).
- ONVIF compliance

Mechanical Dimension



Model		TCP-IRWH540P/N		
	Device	1/3" CCD Sensor		
Image	Effective Pixels	NTSC: 768(H) x 494(V)		
3	Effective Pixels	PAL: 752(H) x 582(V)		
	Color	0.5 Lux		
	B/W	0 Lux (LED on)		
Minimum	Horizontal Resolution	560 TVL		
Illumination	IR Sensitivity	850nm		
marmation	IR LED	IR LED x35 pcs		
	CDS Sensor	Yes		
	IR Working Distance	20M		
	Lens	Varifocal 3.7 ~ 12 mm Lens		
Lens	Viewing Angle	96.2°(D)x75.4°(H)x55.6°(V)		
Synchronization	Sync. System	Internal		
Day/Night	Mechanical			
Functions	IR Cut Filter	Yes, with automatic switch over		
i urictions	Video Setting	Brightness, Contrast, Saturation, Hue, Sharpness, AES, Manual Shutter, IRIS Level, BLC		
	Motion Detection	Yes (3 Windows)		
Functions	Electronic Shutter	1/60(50), 1/100, 1/250, 1/500, 1/2000, 1/10,000, 1/100,000		
runctions	BLC			
	AGC	Yes (ON/OFF), HL BLC		
		Auto		
C/NLD-+:-	White Balance	Auto		
S/N Ratio		> 48 dB		
	Network Compression	Triple streaming H.264/MJPEG/MPEG4 compression		
		Full D1 (NTSC: 720 x 480 PAL: 720 x 576)		
	Picture Resolution	4 CIF (704x480, 704x576)		
		CIF: (NTSC: 352 x 240 PAL: 352 x 288)		
		QCIF: (NTSC: 176 x 120 PAL: 176 x 144)		
Video Quality	Adjustable Bit Rate	VBR, CBR		
		Full D1 (NTSC: 720 x 480 PAL: 720 x 576)		
		4 CIF (704x480, 704x576)		
	Image Frame Rate	CIF: (NTSC: 352 x 240 PAL: 352 x 288)		
		QCIF: (NTSC: 176 x 120 PAL: 176 x 144)		
		at 30/25 fps (NTSC/PAL)		
Reset Button		Yes		
LED		Network LED		
1/0		1in / 1Relay Out		
NI-4I-	Ethernet	Ethernet (10/100 Base-Ť) RJ-45 connector		
Network	Protocol	http, tcp/ip, udp, smtp, ftp, pppoe, dhcp, ddns, ntp, 3gpp, upnp		
	Web Browser	Microsoft Internet Explorer 6.0 or above		
Software	SDK	Yes		
	Security	Password protection: configured by the administrator		
IP66 Rated		Weatherproof casing with IP66 standard		
Temperature Op	erating	0 °C ~ 40 °C		
	Power Requirement	12V		
Power	Power Consumption	450mA, 5.4W		
	Dimensions (ØxL)	83mm(Ø)x180(D)		
Physical	Weight	700g		
Certficate	vveignt	FCC, CE		
Certificate		rcc, ce		

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

MPEG4/MJPEG Megapixel IR IP Camera

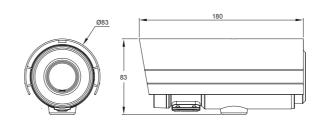




Key Features

- 1/4" OV Progressive Scan CMOS
- Integrated 2.8~10.5 mm/ F1.2 megapixels lens
- True day & night with Mechanism IR Cut Filter Free bundled 36 channel recording
- IP 66 rated weatherproof housing
- Up to SXGA resolution at 10 fps
- Hardware motion detection
- DC12V or Power over Ethernet (IEEE802.3af)
- Support 3GPP / PDA service
- Dual streaming MPEG4/MJPEG compression format
- Free bundled 36 channel recording software
- Support Maxi-Watch Professional IP Software (option)

Mechanical Dimension



Model		TCP-VM201		
Image	Device	1/4" OV Progressive Scan CMOS		
	Color	1.5 Lux		
	B/W	0 Lux (LEDs on)		
Minimum	IR Sensitivity	850nM		
Illumination	IR LED	IR LED x 35 pcs		
	CDS Sensor	Yes		
	IR Working Distance	20 M		
	Lens	Varifocal 2.8 ~ 10.5 mm (external adjustment)		
Lens		132.2° (D)		
Lens	Viewing Angle	101.8° (H)		
		73.7° (V)		
Synchronization	Sync. System	Internal		
Day/Night	Mechanical IR	Yes, with automatic switch over		
Functions	Cut Filter	res, with automatic switch over		
	Video Setting	Brightness, Contrast, Exposure, Sharpness		
	Motion Detection	Yes (3 Windows)		
	Electronic Shutter	1/60(50), 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10000~1/100,000 sec		
Functions	Flickerless	Yes		
	BLC	Yes		
	AGC	Auto		
	White Balance	Auto		
S/N Ratio		>42 dB		
	Network Compression	Dual Steaming MPEG-4 / MJPEG		
	Picture Resolution	SXGA (1280x1024); VGA (640x480); CIF (320x240); QCIF (160 X 120)		
Video Quality	Adjustable Bit Rate	CBR, VBR		
	Image Frame Rate	SXGA(1280x1024) at 10 fps		
	image traine Rate	VGA (640x480), CIF (320x240), QCIF(160 X 120) at 30/25fps (NTSC/PAL)		
Reset Button		Yes		
LED		Network LED		
IP66 Rated		Weatherproof casing with IP66 standard		
Network	Ethernet	Ethernet (10/100 Base-T) RJ45 Connector		
INCLIVIOR	Protocol	http, tcp/ip, udp, smtp, ftp, ppp0e, dhcp, ddns, ntp, 3gpp, upnp, rtp, rtsp, icmp, arp		
	Web Browser	Microsoft Internet Explorer 6.0 or above		
Software	SDK	Yes		
	Security	Password Protection: Configured by the Administrator		
Temperature	Operating	-10°C~40°C		
iemperature	Storage	-30°C~+60°C		
Power	Power Requirement	12V & PoE (IEEE802.3af) with class 3		
rowei	Power Consumption	450mA, 5.4W		
Physical	Dimensions (Ø x L)	83mm(Ø) x 180mm(D)		
Physical	Weight	700 g		
Certficate	·	FCC, ČE		

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

MPEG4/MJPEG IP IR Camera



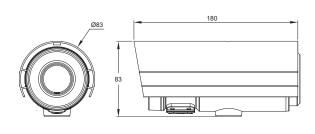


Key Features

- High horizontal resolution 540 TV Lines
- Built in varifocal lens 3.7 ~ 12mm lens
- True day & night with ICR filer mechanism
 MPEG4 / MJPEG dual streaming network
- IP 66 rated housing
- IR distance: 20M

- Support mobile 3GPP / PDA service
- Free bundled basic 36 Channel recording software provided
- Support Maxi-Watch Professional IP software (option).

Mechanical Dimension



Model		TCP-IRV540P/N		
less a a a	Device	1/3" Sony CCD		
lmage	Size	1/3 inch		
	Color	0.1 Lux		
	B∕W	0 Lux		
Minimum	IR Sensitivity	850 nM		
llumination	IR LED	IR LED x35 pcs		
	CDS Sensor	Yes		
	IR Working Distance	20 M		
	Lens	Varifocal 3.7 ~ 12 mm Lens		
	Lettis	132.2°(D) Lens		
Lens	Viewing Angle	101.8°(H)		
	viewing / trigle	73.7°(V)		
Synchronization	Sync. System	Internal		
Day/Night	Mechanical IR	Tree Trus		
unctions	Cut Filter	Yes, with automatic switch over		
UTICLIOTIS	Video Setting	Brightness, Contrast, Saturation, Hue		
	Motion Detection	Yes (3 Windows)		
- un etione	Electronic Shutter	1/60(50), 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10000~1/100,000 sec		
Functions				
	AGC	Auto		
	White Balance	Auto		
		> 48 dB		
	Network Compression	Dual Streaming MPEG-4 / MJPEG		
	B	Full D1 (NTSC: 720 x 480 PAL: 720 x 576)		
	Picture Resolution	Resolution 4 CIF (704x480, 704x576)		
		CIF: (NTSC: 352 x 240 PAL: 352 x 288)		
		QCIF: (NTSC: 176 x 120 PAL: 176 x 144)		
Video Quality	Adjustable Bit Rate	VBR, CBR		
		Full D1 (NTSC: 720 x 480 PAL: 720 x 576)		
		Resolution 4 CIF (704x480, 704x576)		
	Image Frame Rate	CIF: (NTSC: 352 x 240 PAL: 352 x 288)		
		QCIF: (NTSC: 176 x 120 PAL: 176 x 144)		
		at 30/25 fps (NTSC/PAL)		
Reset Button		Yes		
_ED		Network LED		
Vetwork	Ethernet	Ethernet(10/100 Base-T) RJ-45 connector		
VELVVOIK	Protocol	http, tcp/ip, smtp, ftp, pppoe, dhcp, ddns, ntp, 3gpp, upnp		
	Web Browser	Microsoft Internet Explorer 6.0 or above		
Software	SDK	Yes		
	Security	Password protection: configured by the administrator		
P66 Rated		Weatherproof casing with IP66 standard		
	Operating	-10°C ~ 45°C		
emperature	Storage	-30°C ~ +60°C		
	Power Requirement	12VDC		
Power	Power Consumption	450mA, 5.4W		
OVVEI		,		
		,		
Physical	Dimensions (Ø x L) Weight	83mm(Ø) x 180(D) 700q		

 $[\]blacktriangleright$ Specifications are subjected to change without prior notice.

TCP-IR590X Series H.264 WDR Outdoor IP Camera

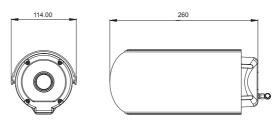




Key Features

- D-WDR
- Support 3D DNR
- Sens-Up Function
- IP66
- External Vari-focal lens adjustment
- True Day/Night Function
- Mechanism IR Cut Filter available
- Fan Built-in
- Two-Way audio
- IR Distance: 50/30 Meter
- H.264/MJPEG/MPEG4 compression
- Support cell phone/PDA/3GPP
- Triple streaming
- SDK for software integration
- Free Bundle 36 Channel Recording Software
- 8 Step shutter Adjustment
- Free Bundle 36 Channel Recording Software
- Support Maxi-Watch Professional IP software (option).
- ONVIF compliance

Mechanical Dimension



Model		TCP-IR590-WD30 TCP-IR	590-WD50		
	Device	1/3" CCD			
lmage		NTSC: 768(H) x 494(V)			
image	Effective Pixels	PAL: 752(H) x 582(V)			
	Horizontal Resolution	560 TVL			
	Color	0.5 Lux			
	B/W	0 Lux			
⁄linimum	IR Sensitivity	850nm			
llumination	IR LED	42 Unit 21 Unit+ E	Power 7 Unit		
	CDS Sensor	Yes			
	IR Working Distance	30M	50M		
	Focal Length	Varifocal 3.7 ~ 12 mm Lens Varifocal 9	~ 22 mm Lens		
ens	Viewing Angle	96.2°(D) x 75.4°(H) x 55.6°(V) 40.2°(D) x 31	1.2°(H) x 22.8°(V)		
ynchronization	Sync. System	Internal			
Day/Night	Mechanical	V			
unctions	IR Cut Filter	Yes, with automatic switch over			
	Video Setting	Brightness, Contrast, Saturation, Hue, Sharpness, AES, Manual Shutter, IRIS	Level, BLC		
	Motion Detection	Yes(3 Windows)			
Functions	Electronic Shutter	1/60(50), 1/100, 1/250, 1/500, 1/2000, 1/5000, 1/10,000, 1/100,0	000		
	AGC	Auto			
	BLC	Yes(ON/OFF), HLBLC			
	White Balance	Auto			
	Flickerless	Yes			
	Auto Iris Control	Yes			
/N Ratio	S/N Ratio	>48dB			
	Network Compression Triple streaming H.264/MJPEG/MPEG4 compression				
		Full D1 (NTSC: 720 x 480 PAL: 720 x 576)			
	D	4 CIF (704x480, 704x576)			
	Picture Resolution (IF: (NTSC: 320 x 240 PAL: 352 x 288)				
/ideo Quality		QCIF: (NTSC: 176 x 120 PAL: 176 x 144)			
, ,	Bit Rate	VBR,CBR			
		Full D1 (NTSC: 720 x 480 PAL: 720 x 576)			
	Inches Former Both	A CIE (704v480, 704v576)			
	Image Frame Rate	CIF: (NTSC: 320 x 240 PAL: 352 x 288)			
		QCIF: (NTSC: 176 x 120 PAL: 176 x 144) at 30/25 fps (NTSC/PAL)			
ideo Output	Composite Output	Yes	,		
	Alarm Input	1			
Alarm	Alarm Output	1(Relay)			
Reset Button	· ·	Yes			
ED		Network LED			
O O		1 in / 1 out (Relay Out)			
Casing	IP66 Rated	Weatherproof casing with IP66 standard			
	Ethernet	Ethernet (10/100 Base-T) RJ-45 connector			
etwork	Protocol	HTTP, TCP/IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, 3GPP, U	PnP		
	Web Browser	Microsoft Internet Explorer 6.0 or above			
oftware	SDK	Yes			
	Security	Password protection: configured by the administrator			
emperature Ope		0 °C ~ 40 °C			
	Power Requirement	DC 12V			
Power	Power Consumption	12.5W			
Noveigal	Dimensions (ØxL)	114mm(Ø) x 260mm(L)			
Physical	Weight	1600g			
Certficate		FCC, ČE			

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

H.264 **Outdoor IP Camera**

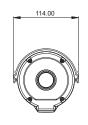


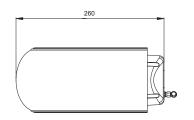


Key Features

- IP66
- 720P @ 30FPS
- 2Mega pixel CMOS sensorExternal Vari-focal lens adjustment
- True Day/Night Function
- Mechanism IR Cut Filter available
- Fan Built-in
- Two-Way audio
- IR Distance: 40/30 Meter
- H.264/MJPEG/MPEG4 compression
- Support cell phone/PDA/3GPP
- Triple streamingSDK for software integration
- Free Bundle 36 Channel Recording Software
- Support Maxi-Watch Professional IP software (option).
- ONVIF compliance

Mechanical Dimension





Model		TCP-IRH5030C TCP-IRH5040C			
lmage	Device	1/3" CMOS Sensor			
	Color	0.5 Lux			
	B/W	0 Lux			
Minimum	IR Sensitivity	850nm			
Illumination	IR LED	42 Unit 56 Unit			
	CDS Sensor	Yes			
	IR Working Distance	30M 40M			
	Focal Length	Varifocal 3.6 ~ 16 mm Lens			
	Tocal Length	100°(D)			
Lens	Viewing Angle	75.4°(H)			
	Victing Angle	75.4 (n) 54.9°(V)			
Synchronization	Sync. System	Internal			
Day/Night	Mechanical	interrior			
Functions	IR Cut Filter	Yes, with automatic switch over			
ULICUOLIS	Video Setting	Brightness, Contrast, Sharpness, Night Mode			
	Motion Detection	Yes(3 Windows)			
	Electronic Shutter	Auto			
	BLC Shutter	***			
	AGC	Yes(ON/OFF)			
Functions		Auto			
	White Balance	Auto			
	Flickerless	Yes			
CALD .:	Auto Iris Control	Yes Yes			
S/N Ratio	S/N Ratio	>42dB			
	Network Compression	Triple Streaming H.264/ JPEG / MPEG4 compression			
	Picture Resolution	1600x1200, 1280x1024, 1280x960, 1280x720, 800x600, 640x480, 320x240, 176x120			
	Bit Rate	VBR, CBR			
Video Quality	1600 x 1200@15FPS				
	Image Frame Rate	1280 x 1024@22FPS			
		1280 x 960@25FPS			
		1280 x 720@30FPS			
Video Output	Composite Output	Yes			
Alarm	Alarm Input	1			
	Alarm Output	1 (Relay)			
Reset Button		Yes			
LED		Network LED			
/0		1 in / 1 out (Relay Out)			
Casing	IP66 Rated	Weatherproof casing with IP66 standard			
Network	Ethernet	Ethernet (10/100 Base-T) RJ-45 connector			
NELWOIK	Protocol	HTTP, TCP/IP, UDP, SMTP, FTP, PPPOE, DHCP, DDNS, NTP, 3GPP, UPnP			
	Web Browser	Microsoft Internet Explorer 6.0 or above			
oftware	SDK	Yes			
	Security	Password protection: configured by the administrator			
emperature Ope		0 °C ~ 40 °C			
	Power Requirement	DC 12V			
Power	Power Consumption	12.5W			
	Dimensions (ØxL)	114mm(Ø) x 260mm(L)			
Physical	Weight	1600 q			
Certficate FCC, CE					

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

MPEG4/MJPEG **Outdoor IP Camera**



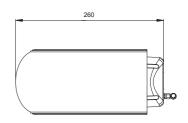


Key Features

- Weatherproof enclosure IP66 rated
- External Varifocal lens adjustment
- Super high horizontal resolution 540 TV Lines
- External Varifocal lens adjustment
- Fan built-in
- IR distance 30M / 40M / 50M
- MPEG4 / MJPEG Compression format
 Mechanical ICR for true day & night
- Support cell phone / PDA / 3GPP
- Dual streaming MPEG4 / MJPEG
 SDK for software integration
- 8 step manual shutter control
- Free bundled basic 36 channel recording software provided
- Support Maxi-Watch Professional IP software (option).

Mechanical Dimension





Model		TCP-IRV560/30M	TCP-IRV560/40M	TCP-IRV560/50M
	Device		1/3" SONY CCD	
mage	E((', ')' ')'	NTSC: 768(H) x 492(V)		
mage	Effective Pixels	PAL: 752(H) x 582(V)		
	Horizontal Resolution	540 TVL		
	Color	0.1		
	B/W		0 Lux	
Minimum	IR Sensitivity	850nM		
Illumination	IR LED	42 Unit	56 Unit	21 Unit+7 E-Power
marrinadUH	CDS Sensor	42 UIIIL	Yes	Z i Ollit+/ L-rowel
	IR Working Distance	30M	40M	50M
	Focal Length	Varifocal 3.7 ~ 12 mm Lens		9 ~ 22 mm Lens
Lens	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	96.2°(D)		0.2°(D)
	Viewing Angle	75.4°(H)		1.2°(H)
		55.6°(V		2.8°(V)
Synchronization	Sync. System		Internal	
Day/Night	Mechanical IR		Yes, with automatic switch over	
Functions	Cut Filter		<u> </u>	
	Video Setting		Brightness, Contrast, Saturation, Hue	
	Motion Detection	Yes (3 Windows)		
	Electronic Shutter	1/60(50), 1/100, 1/	/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10	0000~1/100,000 sec
Functions	AGC	1700(30), 17100, 17230, 17300, 173000, 173000, 1710000-17100,000 3ec		
	White Balance	Auto		
	Flickerless	Yes		
	Auto Iris Control	Yes		
S/N Ratio	S/N Ratio			
JIN NAUO	Network Compression	Dual Streaming MPEG-4 / MJPEG		
	14CTANOLY COLLIDIESSIOLI	Full D1 (NTSC: 720 x 480 PAL: 720 x 576)		
	Dicture			
	Picture	Resolution 4 CIF (704x480, 704x576)		
V.CL O. P.	Resolution	CIF: (NTSC: 320 x 240 PAL: 352 x 288)		
Video Quality	27.2		QCIF: (NTSC: 176 x 120 PAL: 176 x 144)	
	Bit Rate		VBR, CBR	
			Full D1 (NTSC: 720 x 480 PAL: 720 x 576)
	Image Frame Rate	Resolution 4 CIF (704x480, 704x576)		
	age Hame hate		CIF: (NTSC: 320 x 240 PAL: 352 x 288)	
		QCIF: (NTS	SC: 176 x 120 PAL: 176 x 144) at 30/25 fp	s(NTSC/PAL)
Video Output	Composite Output		Yes	
<u>'</u>	Alarm Input		1	
Alarm	Alarm Output		1(Relay)	
Reset Button			Yes	
LED			Network LED	
Casing	IP66 Rated		Weatherproof casing with IP66 standard	
	Ethernet		Ethernet (10/100 Base-T) RJ-45 connecto	
Network	Protocol	НТТР ТС	P/IP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, 3	
	Web Browser	IIIII, IC	Microsoft Internet Explorer 6.0 or above	
Software	SDK		Yes	
oortware		Dage	vord protection: configured by the admini	ctrator
	Security	Passi		Strator
Temperature	Operating		-10°C ~ 45°C	
icinperature	Storage		-30°C ~ +60°C	
Power	Power Requirement		AC 90V~260V	
04461	Power Consumption		12.5W	
Physical	Dimensions (Ø x L)		114mm(Ø) x 260mm(L)	
Physical	Weight	1600g		
Certficate		FCC, ČE		

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

MPEG4/MJPEG Mini Square Megapixel IP Camera

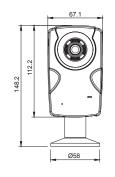


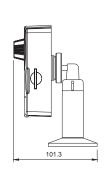


Key Features

- 1.3 Megapixel (SXGA Resolution)
- MPEG4/MJPEG compression format
- SD card back up
- 2 way audio
- Support cell phone/PDA/3GPP
- Dual streaming MPEG4 & JPEG compression format
- SDK for software integration
- Wireless available
- Free bundled basic 36 channel recording software provided
- Alarm I/O 1 input/1 output

Mechanical Dimension





Model		TCMA-99W	
Image Device		1/4" OV Progressive CMOS	
Minimum Illumination	Color	1.5Lux at F1.2	
Lens	Lens	Fixed Lens 4.0 mm / F2.0	
Synchronization	Sync. System	Internal	
	Video Setting	Brightness, Contrast, Exposure, Sharpness	
	Motion Detection	Yes (3 windows)	
unctions	Electronic shutter	1/60(50), 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10000~1/100,000 sec	
	Flickerless	Yes	
	AGC	Auto	
	White Balance	Auto	
S/N Ratio		42dB	
	Network Compression	Dual Steaming MPEG-4 / MJPEG	
		SXGA (1280x1024)	
	Picture Resolution	VGA (640x480)	
	Ficture Resolution	CIF (320x240)	
		QCIF (160x120)	
Video Quality	Adjustable Bit Rate	CBR, VBR	
	1280x1024 at 10 fps		
		VGA (640x480)	
	Image Frame Rate	CIF (320x240)	
		QCIF (160x120)	
		at 30/25 fps (NTSC/PAL)	
Audio Input	Compression	ADPCM	
-addio iripat	Built-in Microphone	Yes	
Audio Output	Compression	ADPCM	
-adio Odiput	Audio Line Output	1	
External I/O	Alarm input	1	
External #0	Alarm Output	1	
Reset Button		Yes	
LED		Power LED, Network LED	
Network	Ethernet	Ethernet (10/100 Base-T) RJ-45 connector	
	Protocol	HTTP, TCP/IP, SMTP, FTP, PPPOE, DHCP, DDNS, NTP, 3GPP, UPnP	
	Web Browser	Microsoft Internet Explorer 6.0 or above	
Software	SDK	Yes	
	Security	Password protection: configured by the administrator	
Temperature	Operating	-10°C~40°C	
- 1	Storage	-30°C~+60°C	
Power	Power Requirement	DC 12V & PoE (IEEE 802.3af) with Class 3 DC 12V	
-	Power Consumption	LAN: 200mA, 2.4W WLAN: 250mA, 2.4W	
Physical	Dimensions (W x H x D)	67.1mm(W) x 111.7(H) x 50.6(D)	
	Weight	180g	
Certficate	cate FCC, CE		

MPEG4/MJPEG Mini Square IP Camera

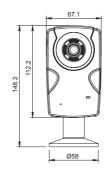




Key Features

- MPEG4 Compression format
- SD card back up
- 2 way audio
- Support cell phone / PDA / 3GPP
- Dual streaming
- SDK for software integration
- Wireless available
- Support Maxi-Watch Professional IP software (option).
- Free bundled basic 36 channel recording software provided
- Alarm I/O 1 input / 1 output

Mechanical Dimension





Model		TCMP-99	TCMP-99W	
Device		1/4" OV	CMOS	
Minimum Illumination	Color	1.0 Lux		
Lens	Lens	Fixed lens 4.0	0 mm / F2.0	
Synchronization	Sync. System	Inter	nal	
.,	Video Setting	Brightness, Contrast,	Exposure, Sharpness	
	Motion Detection	Yes (3 wi		
unctions	Electronic shutter	Auto		
difetions	Flickerless	Ye	Yes	
	AGC	Ye	S	
	White Balance	Ye	ς	
S/N Ratio		500		
Video Compression		Dual Steami		
	P	VGA (64		
	Picture Resolution	CIF (320		
Video Quality		QCIF(160	· ·	
	Adjustable Bit Rate	CBR, VBR		
	Image Frame Rate	30/25 fps NTSC/PAL		
	Compression	ADPCM		
Audio Input Built-in Microphone Yes				
	Compression	ADPCM		
Audio Output	Audio Line Output	1		
• 1	Alarm Input	1		
Alarm	Alarm Output	1		
Reset Button		Ye	S	
_ED		Power LED, N	letwork LED	
	Ethernet	Ethernet (10/100 Base	e-T) RJ-45 connector	
Network	Protocol	HTTP, TCP/IP, SMTP, FTP, PPPoE,		
	Web Browser	Microsoft Internet Ex		
Software	SDK	Ye	S	
	Security	Password protection: config	gured by the administrator	
- .	Operating	-10°C ~		
Temperature	Storage	-30°C ~	+60°C	
Power	Power Requirement	DC 12V or PoE (IEEE 802.3af) with Class 3	DC 12V	
	Power Consumption	LAN: 200mA, 2.4W	WLAN: 250mA, 2.4W	
	Dimensions (W x H x D)	67.1mm(W) x 111.		
Physical	ysical Weight 180g		· · · · · · · · · · · · · · · · · · ·	
Certficate	1 9 - 10	FCC, CE		

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

Megapixel Network Camera



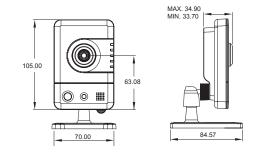


Onvie

Key Features

- Functional and smart design
- Multiple H.264 streams
- Built in microphone & speaker
- H.264, MPEG4, and MJPEG triple code compression
- Resolution 1280 x 800
- Easy & flexible installation
- PIR sensor and illumination LED
- Support Maxi-watch Professional IP Software (option)
- Free bundled 64 channel recording software
- ONVIF compliance

Mechanical Dimension



Model	GP-100CB	WGP-100-CB		
Sensor Type	1/4" Megapixel CMOS Sensor			
Sensor Resolution	1280	0x800		
Minimum Illumination	0 Lux (with LED),	1 Lux (without LED)		
Maximum Image Resolution		1200 x 800: 15 fps 640 x 400: 30 fps		
Audio		/ audio		
Lens Type	Board fixed 3.6	mm lens at F2.3		
Wired or Wireless	Wired	Wireless		
Auto Exposure Control	Yes			
AGC	Yes			
AWB	Yes			
Ethernet	One 10/100	One 10/100 Mbps RJ 45		
Wifi	-n/a-	802.11 b/g/n		
Interface & Buttons	Micro SD card slot / DC power connector / Ethernet cable connector , Privacy button / WPS Button / Reset button / Microphone / PIR sensor / Speaker / Illuminator LED			
Support Protocols	TCP/IP, UDP, ICMP, DHCP, NTP, DNS, DDNS. SMTP, FTP, HTTP, Samba,	PPPoE, UpnP, Bonjour, RTP, RTSP, RTCP		
Audio	Built in microp	hone & speaker		
Power	DC12V / 1A ((power supply)		
Operating Temperature	0°C ~	- 50°C		
Operating Humidity	10%	~ 80%		
Weight		GP-100CB: 0.103 kgs WGP-100-CB: 0.108 kgs		
Dimension	29(L) x 70 (W)) x 105 (H) mm		

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

Megapixel Network Camera

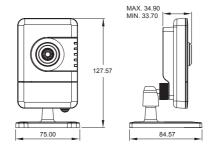




Key Features

- Functional and smart design
- Multiple H.264 streams
- H.264, MPEG4, and MJPEG triple code compression
- Resolution 1280 x 800
- Easy & flexible installation
- Built in microphone
- Support Maxi-watch Professional IP Software (option)
- Free bundled 64 channel recording software
- ONVIF compliance

Mechanical Dimension



Model	GE-100CB WGE-100-CB			
Sensor Type	1/4" Megapixel CMOS Sensor			
Sensor Resolution	1280	x 800		
Minimum Illumination	1	Lux		
Maximum Image Resolution	1200 x 800: 15 fps			
Iviaximum image Resolution	640 x 40	00: 30 fps		
	AMR	/G.726		
Audio	Omni-direction Commi-direction	nal Microphone		
	Frequency: 50 – 20000Hz			
Lens Type	Board fixed 3.6 mm lens at F2.3			
Image Compression	H.264 / MPEG4 / MJPEG			
Auto Exposure Control	Yes			
AGC	Yes			
AWB	Yes			
Audio	Built in microphone			
Ethernet	One 10/100 Mbps RJ 45			
Wifi	-n/a-	802.11 b/g/n		
Interface & Buttons	DC power connector / Ethernet cable connector , Privacy button / WPS Button / Reset button / Microphone			
Support Protocols	TCP/IP, UDP, ICMP, DHCP, NTP, DNS, DDNS. SMTP, FTP, HTTP, Samba, PPPOE, UpnP, Bonjour, RTP, RTSP, RTCP			
Power	DC12V / 1A (power supply)			
Operating Temperature	0°C ~ 50°C			
Operating Humidity	10% ~ 80%			
Weight	GE-100CB: 0.097 kgs			
**Cigit		CB: 0.103 kgs		
Dimension	29(L) x 70 (W) x 105 (H) mm			

 $[\]blacktriangleright$ Specifications are subjected to change without prior notice.

H.264

IP Pan/Tilt Network Camera

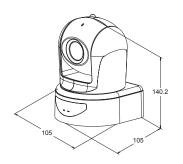




Key Features

- Remote Pan 270° Tilt 120°
- H.264/ MJPEG/MPEG4 compression
- Day/Night Function- IR Cut Filter(ICR)
- Power over Ethernet available
- Support SD card
- 2-Way Audio
- Triple Streaming
- Support Cell Phone/PDA/3GPP
- SDK for Software Integration
- Free bundled 36 channel recording software
- Support Maxi-Watch Professional IP software (option)
- ONVIF compliance

Mechanical Dimension



Model		MD-D1612				
	Device	1/4" CCD				
llmage	Effective Pixels	PAL: 512(H)x582(V)				
	Effective Pixels	NTSC: 512(H)x492(V)				
	Horizontal Resolution	420TVL				
Minimum	Color	0.1 Lux				
llumination	B/W	0.1 Lux				
_ens	Lens Mount	Auto Focus 12x zoom Lens				
Synchronization		Internal				
Day/Night	Mechanical IR	Yes				
unctions	Cut Filter					
	Video setting	Brightness, Contrast, Saturation, Hue, Sharpness				
	Motion Detection	Yes (3 Windows)				
unctions	Fixed Shutter (Manual)	1/50(60)~1/100000s				
unctions	Flickerless	YES				
	AGC	Auto				
	White Balance	Auto, Daylight, Cloudy, Tungsten Lamp, Fluorescent				
S/N Ratio	S/N Ratio	>50 dB				
	Compression	H.264/ M-JPEG/ MPEG4(3GPP only)				
√ideo	Picture Resolution	NTSC: 720x480, 704x480, 352x240, 176x144				
Compression	PAL: 720x576, 704x576, 352x288, 176x144					
Compression	Bit Rate	VBR, CBR				
	Image Frame Rate	at 30/25 (NTSC/PAL) fps				
	Streaming 1	H.264 or MJPEG				
√ideo Streaming		H.264 or MJPEG				
	Streaming 3(3GPP)	MPEG4				
Audio Input	Compression	G.711				
-tudio iriput	Audio Line Input	1				
Audio Output	Compression	G.711				
-tudio Odiput	Audio Line Output	1				
Alarm	Digital Input	1				
	Digital Output	1				
Reset Button		Yes				
LED		Power and Network LED				
Vetwork	Ethernet Port	Ethernet (10/100 Base-T)				
INCLIVIOR	Protocol	HTTP, TCP/ IP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP				
Software	Web Browser	Microsoft Internet Explorer 6.0 or above				
	SDK	Yes				
	Security	Password Protection: Configured by the Administrator				
Operating	Temperature	-10°C ~40°C				
Storage		-30°C ~60°C				
Power	Power Requirement	12V or PoE (IEEE 802.3af) with Class 3				
OVVCI	Power Consumption	510mA, 7.8W				
Physical	Dimensions (WxHxD)	105mm(W)x105mm(H)x140.2mm(D)				
	Weight	550 g				
Approvals	Certificate	CE, FCC				

MPEG4/MJPEG IP Pan/Tilt Network Camera

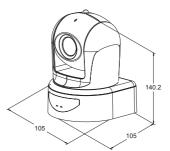




Key Features

- Remote Pan (270°)/Tilt (120°)/Zoom 12X Dual Streaming MPEG4 & JPEG compression optical Control
- IR Cut Filter (ICR)
- MPEG4/JPEG Compression format
- SD Card back up
- 2 way audio
- Support cellphone/PDA/3GPP
- SDK for software integration
- Wireless (option)
- Free Bundle Basic 36 Channel Recording Software Provided
- Support Maxi-Watch Professional IP software (option).
- ONVIF compliance

Mechanical Dimension



Model	MD-D1200WI (Wireless)				
CCD Sensor	1/4" CCD				
Lens Type	Auto focus zoom lens				
	Full D1 (NTSC:720 x 480 PAL: 720 x 576)				
	4 CIF (704x480, 704x576)				
Video Resolution	CIF (NTSC: 320 x 240 PAL: 352 x 288)				
	QCIF (NTSC: 160 x 120 PAL: 176 x 144)				
Zoom Ratio	12x Optical zoom				
Focal Length	F(wide) 3.8 mm to f(tele) 45.6 mm				
Maximum Aperture	F(wide) = 1:1.6, F (tele) = 1:2.7				
Angle View (H,V)	Wide: 52.8°, 39.7°, Tele: 4.49°, 3.40°				
	270°				
Pan Angle					
Tilt Angle	120°				
Pan/Tilt Zoom control	Yes, remotely				
Preset Point	9				
Patrol/Auto Pan	Yes (once)				
Sensitivity	0.1 Lux F1.6				
Electronic Shutter	1/50 (1/60) ~ 1/100000s				
White Balance Mode	ATW, AWB, Indoor, Outdoor				
Video adjust	Brightness, Contrast, Saturation, Hue				
Video Out	1 (RCA type)				
Alarm I/O	1 in / 1 out				
Audio in/out	1 in / 1 out (2.5 mm Phone Jack)				
Audio	Yes, 2 Way (Duplex Support)				
Dual Streaming	Yes				
Image snapshot	Yes				
Full screen monitoring	Yes				
Compression format	Dual Streaming (MPEG-4 / MJPEG)				
Image Frame Rate	30/25 fps (NTSC/PAL)				
Video bitrate adjust	CBR, VBR				
Motion Detection	Yes, 3 different areas				
Triggered action	Mail, FTP, Save to SD card				
Pre/Post alarm	Yes, configurable				
Security	Password protection				
Firmware upgrade	HTTP mode, can be upgraded remotely				
Simultaneous connection	Up to 10				
Simultaneous connection Ethernet	υρ το 10 10 / 100 Base-T				
Wireless (option)	802.11b/g (optional)				
Network Protocol	HTTP, TCP/ IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, 3GPP, UPnP				
SD card management					
Recording trigger	Motion Detection, IP check Network status (wire connection only)				
Video format	AVI, JPEG				
Video playback	Yes				
Delete files	Yes				
Power Requirement	DC12V or Power Over Ethernet (IEEE 802, 3af)				
Power Consumption	Lan: 1.7A ; WLAN: 1.9A, 7.8W				
Dimensions	105mm(W) x 157mm(L) x 150mm(H)				
Weight	550g				

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

H.264 One Channel Decoder / Encoder



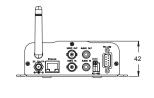


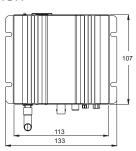
Key Features

- 1 CH Input/Output
- H.264/ MJPEG/MPEG4 compression
- SD card backup
- way audio
- Support Cell Phone/PDA/3GPP
- 3 Streaming

- Power Over Ethernet available
- SDK for Software Integration
- Wireless
- Free Bundle 36 ch recording software
- ONVIF compliance

Mechanical Dimension





Model		EDH-02H (wired) / EDH-02HW (wireless)		
	CPU	ARM 9, 32 bit RISC		
Hardware	RAM	DDR2 256 MB		
	Flash	16 MB		
	Video Input	BNC x 1 (CVBS Camera Input)		
	Video Looping Input	BNC x 1 (CVBS Monitor Output)		
	Audio Input / Out	1 in / 1 out		
	VO	2 in 2 Relay out (COM. & N.O. & N.C.)		
	1/0	Relay Out: DC 24V : 1A AC 110V: 0.5A		
	RS 485	1 for PTZ control		
	RS 232	Yes		
	Power Over Ethernet	POE (optional)		
	Power Consumption	DC 12V, 350mA, 4W		
Network	Ethernet	10/100 Base-T		
	Network Protocol	HTTP, TCP/ IP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP		
	Wire or Wireless	Wired Wireless (optional)		
	Video Resolution	NTSC - 720x480, 704x480,352x240, 176x120		
	video Resolution	PAL-720x576, 704x576, 352x288, 176x144		
	Video adjust	Brightness, Contrast, Saturation, Hue, Sharpness		
	Triple Streaming	H.264/JPEG/MPEG4 (3Gpp)compression		
	Image snapshot	Yes		
	Full screen monitoring	Yes		
	Privacy Mask	Yes, 3 different areas		
System	Compression format	H.264/JPEG/MPEG4 (3Gpp only)		
	Video bit rate adjust	CBR, VBR		
	Motion Detection	Yes, 3 different areas		
	Triggered action	Mail, FTP, Save to SD Card , Relay		
	Security	Password protection		
	Pre/ Post alarm	Yes, configurable		
	Firmware upgrade	HTTP mode, can be upgraded remotely		
	Simultaneous connection	Up to 10		
	Audio	2-way		
	Recording Trigger	Motion Detection, IP check, Network break down (wire only), schedule, Alarm		
SD Card	Video Format	AVI , JPEG		
Management	Video Playback	Yes		
	Files Management	Yes, cane be deleted or overwrite		
Web Browsing Requirement	os	Windows 2000, XP, 2003, Microsoft IE 6.0 or above		
Hardware Sugge	estion	Intel Dual Core 1.66G,RAM: 1024MB, Graphic card: 128MB		
22		Intel-C 2.8G, RAM: 512MB, Graphic card: 64MB		
Dimension		134mm (W) x 42mm (L) x 107mm (D)		

 $[\]blacktriangleright$ Specifications are subjected to change without prior notice.

H.264 One Channel Camera Server



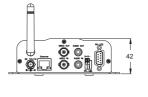


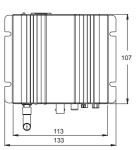
Key Features

- H.264 Compression
- 1 Channel Input
- With SD Back Up for Data Storage
- Support 3Gpp Service
- 3 Streaming H.264/JPEG/MPEG4 (3Gpp) ONVIF compliance
- Compression

- Built in Power Over Ethernet
- Wired/Wireless available
- Free bundled 36 channel recording software
- SDK For Software Integration

Mechanical Dimension





Technical Specifications

Model		WB-H811 WB-H811W				
CPU		ARM 9, 32 bit RISC				
	RAM	DDR2 128MB				
	Flash	8 MB				
	Video Input	BNC x 1				
	Video Looping Input	BNC x 1				
Hardware	Audio Input	RCA x 1				
Tiaruware	Audio Output	RCA x 1				
		2 in 2 Relay out (COM. & N.O. & N.C.)				
	1/0	Relay Out: DC 24V: 1A AC 110V: 0.5A				
	RS 485	1 for PTZ control				
	RS 232	Yes				
	Power Over Ethernet	POE (IEEE802.3af)				
	Power Consumption	DC 12V, 350mA, 4W				
	Ethernet	10/100 Base-T				
	Network Protocol	HTTP, TCP/ IP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP				
Network	Wire or Wireless	Wired Wireless				
	Image Frame Rate	30/25 fps (NTSC/PAL)				
		NTSC-720x480, 704x480, 352x240, 176x120				
	Video Resolution	PAL-720x576, 704x576, 352x288, 176x144				
	Video adjust	Brightness, Contrast, Saturation, Hue, Sharpness				
	Triple Streaming	H.264/JPEG/MPEG4 (3Gpp) compression				
	Image snapshot	Yes				
	Full screen monitoring	Yes				
	Privacy Mask	Yes, 3 different areas				
System	Compression format	H.264/JPEG/MPEG4 (3Gpp) compression				
3,3.0	Video bit rate adjust	CBR, VBR				
	Motion Detection	Yes, 3 Areas				
	Triggered action	Mail, FTP, Save to SD Card, Relay				
	Security	Password protection				
	Pre/ Post alarm	Yes, configurable				
	Firmware upgrade	HTTP mode, can be upgraded remotely				
	Simultaneous connection	Up to 10				
	Audio	2-way				
	Recording Trigger	Motion Detection, IP check, Network break down (wire only), schedule, Alarm				
SD Card	Video Format	AVI, JPEG				
Management	Video Pormat Video Playback	AVI, JPEG Yes				
iviariagement		Yes, cane be deleted or overwrite				
Web Browsing						
Requirement	OS	Windows 2000, XP, 2003, Microsoft IE 6.0 or above				
Hardware Sugge	ection	Intel Dual Core 1.66G, RAM: 1024MB, Graphic card: 128MB				
i iai uware sugge	ESCIOI I	Intel-C 2.8G, RAM: 512MB, Graphic card: 64MB				
Dimension		134mm (W) x 42mm (L) x 107mm (D)				
Certficate		FCC, CE				

▶ Specifications are subjected to change without prior notice.

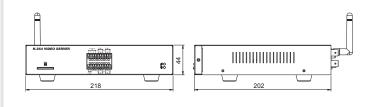
H.264 Four Channel Camera Server





- Key Features
- H.264 Compression
- RS-485 Control (PTZ)
- RS-232 Interface
- Support SD Card
- 2 way audio
- Wired/Wireless available
- 4/Video Input
- 4 Alarm Input
- 4 Relay Out
- Free bundled 36 channel recording software
- SDK For Software Integration
- ONVIF compliance

Mechanical Dimension



Model		WB-H814			
CPU		ARM 9, 32 bit RISC			
Hardware	RAM	256MB			
	ROM	16MB			
	Video Input	BNC x 4			
	Video Looping Input	BNC x 4			
	Audio Input / Output	4 in / 1 out (RCA type)			
	Alarm In	4			
	Relay Out	4			
	RS 485	x 1, for PTZ control			
	Power Consumption	DC 12V, 630mA			
	Ethernet	10/100 Base-T			
	Network Protocol	HTTP, TCP/ IP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP			
Network		Wired			
	Wire or Wireless	Wireless			
	Image Frame Rate	D1 at 20 fps per channel			
	Video Resolution	NTSC-720x480, 704x480, 352x240, 176x120			
	video Resolution	PAL-720x576, 704x576, 352x288, 176x144			
	Video adjust	Brightness, Contrast, Saturation, Hue			
	Dual Streaming	H.264/MJPEG compression			
	Image snapshot	Yes			
	Full screen monitoring	Yes			
	Privacy Mask	1 area per 1 Channel			
System	Compression format	H.264/MJPEG compression			
	Video bit rate adjust	CBR, VBR			
	Motion Detection	1 Area per 1 Channel			
	Triggered action	Mail, FTP, Save to SD Card , Relay			
	Security	Password protection			
	Post alarm	Yes			
	Firmware upgrade	HTTP mode, can be upgraded remotely			
	Simultaneous connection	Up to 10			
	Audio	2-way			
	Recording Trigger	Motion Detection, IP check, Network break down (wire only), schedule, Alarm			
SD Card Management	Video Format	AVI , JPEG			
	Video Playback	Yes			
	Files Management	Yes, can be deleted or overwrite			
Web Browsing Requirement	OS	Windows 2000, XP, 2003, Microsoft IE 6.0 or above			
Hardware Sugge	estion	Intel 2.8G, RAM: 256MB, Graphic Card: 32MB			
Dimension		134mm (W) x 42mm (L) x 107mm (D)			
Certficate		FCC, CE			

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

MPEG4/MJPEG 4 CH Camera Server





WB-8412SD/W

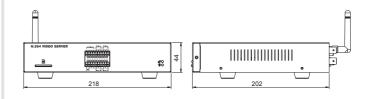


Key Features

- Support VGA, CIF, QCIF
- Quad display up to 30FPS/NTSC, 25FPS/PAL 2 way audio function
- Support On-line firmware upgrade
- Support network On-live recording with AVI format which support
- Support dynamic IP, PPPoE via free DDNS
- Support RS-485 to control the speed dome
- SD Back up

- Wired/Wireless Network
- Support 3GPP/PDA service
- Support Maxi-Watch Professional IP software (option).
- Free Bundle Basic 36 Channel Recording Software Provided
- SDK for software integration provided upon customer request

Mechanical Dimension



Model		WB-8412 WB-8412SD/W			
Hardware	CPU	ARM 9, 32 Bit RISC			
	RAM	64MB			
	ROM	8 MB			
	Video In / Out	4 in / 4 out BNC Connector			
	Audio In / Out	1 in / 1 Out			
	I/O	4 in / 1 Out			
	RS 485	1, for PTZ Control			
	Power Consumption	DC12V, 1 A, 4W			
	Ethernet	10/100 Base-T			
	Wireless (Optional)	802.11 b/g			
Network	WEP	64 / 128 Bit			
	Network Protocol	HTTP,TCP/IP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, UPnP			
	Image Frame Rate	30/25 fps (NTSC/PAL)			
	Resolution	VGA, CIF, QCIF			
	Image Snapshot	Yes			
	Full Screen Monitoring	Yes			
	Compression Format	MPEG4 / JPEG Selectable			
	Video Bitrate Adjustable	CBR, VBR			
System	Motion Detection	4 areas (1 area per Channel)			
	Triggered Action	Mail, FTP, Save to SD storage			
	Pre / Post Alarm	Yes, configurable			
	Security	Password Protection			
	Firmware Upgrade	HTTP Mode which can be upgraded remotely			
	Simultaneous Connection	UP to 10			
	Audio	2 Way Audio			
. D. C. J.	Recording Trigger	Motion Detection, IP Check, Network Break Down (Wire Only)			
SD Card Management (WB-8412)	Video Format	AVI, JPEG			
	Video Playback	Yes			
	Files Management	Yes, Can be deleted or over write			
Web Browsing	OS	Windows 2000, XP, 2003, Microsoft IE6.0 or Above			
Requirement	IE	6.0 or above			

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

Maxiwatch Professional IP Software



Key Features

- Support up to 64 channels
- Support megapixel IP camera
- Support H.264 compression format
- Triple monitor display
- Support Joystick
- E-map
- Unique GUI recording schedule
- Digital PTZ and multi-view
- Smart detection of 6 events with 10 instant responses
- Counting application
- \blacksquare Intelligent playback system with 5 video analytics searches
- POS and I/O device integration
- Remote live viewer, remote playback, remote backup, remote I/O control and remote desktop configuration
- Supported by Central Management System
- Supports 36 brands of IP cameras and more than 560 models
- Supports 25 languages

Technical Specifications

Model		Maxi	Watch IP Sotware (TC:	P-XM)		
IP Camera Input(s)	4, 8, 12, 16, 25, 32, 64					
Version			3.2			
	FINE	Arecont	Atlantis	Dynacolor	Hitron	
	Cisco	Digimerge	D-Link	HIKVision	Linksys	
	EverFocus	Eyeview	JVC	LevelOne	Panasonic (PCC)	
IP Camera Brand(s)	Icantek	IQinvision	Mobotix	Moxa	Sanyo	
Supported	Lorex	Lumenera	Planet	Samsung	Vivotek	
	Panasonic(PSS)	Pixord	Toshiba	Truen		
	Seorim	Sony	ACTi	Basler		
	Y-cam	Zavio	Axis	Etrovision		
Digital PTZ		Supp	orted in Live view and play	back		
Multiple Show			Supported in Live view			
Triple Maniter		Enable maximum 64 channels with two screens to show live video				
Triple Monitor	and viewer recording video on third monitor.					
Audio & Video Recording	Audio & video recording in synchronization.					
Screen Division	1/4/6/9/10/13/16/25/36/49/64 divided screen.					
Compression Format	MPEG-4; M-JPEG; MxPEG; H.264					
Recording Type	Continuous record, record by digital input, motion record, event					
Recording Type		recording, record by schedule, manual record				
Playback Channels	Playback Maximum 16 channels under several modes & full screen.					
Playback Control		Playback, backward playback, fast forward/backward playback.				
Auto Recycling Recording		Auto recycling when storage disk is full.				
Available I/O Function			Supporting I/O Box			
Available POS Device		-	S232 to Ethernet Converto	r		
Hardware Watchdog			N/A			
System Minimum Requirement	S					
OS Supported		Windows 2000 / Windows	XP / Windows 2003/ Wind	ows Vista / Windows 7		
CPU			Pentium 4 – 2.8 GHz			
RAM		512 MB				
HDD	80 GB					
Mother-board	Intel 945 or 965 chip, Intel Chipset recommended					
Display	ATI Radeon 9200, nVIDIA GeForce FX-5200, Intel 945 / 965, or					
Display	above (ATI recommended)					
	English, Bulgaria, Chinese (Traditional), Czech, Danish, Farsi, Finland, Finnish,					
Support Language	French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norway,					
		Portuguese(Brazil), Portuguese(Portugal), Russian, Slovak, Spanish, Thai, Turkey				

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

User Interface



Live



Playback





I.E Remote Software

Maxiwatch Professional IP Software



Specifications

System, setting, management and integration

- Open Platform: Supports over 560 IP cameras, megapixel cameras and video servers from 36 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 device, as well as provides you SDK to integrate access control.
- Multi-site/Multi-server: Each NVR 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.
- Multiple Video Clients: NVR server can stream video to multiple Remote Live Viewers, web clients and mobile clients simultaneously.
- Intelligent Video Analytics: supports 6 types of video analytics including general motion, missing object, camera occlusion, foreign object, focus lost and signal lost. Each 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 NVR. 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. User 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 moni tor can be used for playback
- Transcoding: Record and live display at different frame rate and resolution.
- Advance 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.
- 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 of the IP cameras in the network (camera must support UPnP protocol). For cameras that don't support UPnP, user 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: The data streaming bandwidth of each remote client connection to the NVR server 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.

Live Display

- Multi-view: NVR 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
- Intelligent PTZ: Joystick support on PTZ cameras and software enabled digital PTZ function are both available in NVR. Preset points and patrol functions are also available on many camera models
- Monitor Resolution: Supports 1024x768, 1200x900, 1280x1024, and 1600x1200 screen
- 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.

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
- Intelligent Search: Search for 5 different special events (general motion, missing object, for eign 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 back up to local HD, network drive and CD.
- Log data: Unusual event, system log, and counting application can export to "xls" or "txt" file
- Watermark: Protect for original recording from alternation with our watermark verification tool.
- DBTool: Reconstruct, repair or relocate the recordings in local drive, external drive or network

Remote operations

- Multiple Live View Display: Streaming live video from multiple servers (NVR, DVR, and NDVR) simultaneously. Dual monitors support with up to 128 channels per monitor (64 chan nels per monitor in v3.2.0).
- Multi Playback Channels Display: Remote playback of 16 channels recording from any one of the servers (NVR, DVR, and NDVR).
- Intelligent PTZ: Joystick support on PTZ cameras and software enabled digital PTZ function are both available in NVR. Preset points and patrol functions are also available on many cam
- I/O Event Control: Easy to use input and output control panel to remotely trigger digital out puts and monitor input status.

- E-Map: A map view of where each camera and I/O devices are located with a convenient pre view window
- Remote Backup: Backup the video into .DAT format with a player attached for easy achieve and viewing purposes.
- Web-browser (client): Display up to 16 channels of live video stream or 16 channels of playback in I.E. from any single server.
- PDA Viewer: Up to 16 channels snapshot or 1 channel live display; PTZ and I/O control.

Extension Service

- Central Management System: Ultimate central monitoring solution for grand scale projects and projects with multiple sites. Fully compatible with all servers (NVR, DVR. NDVR and MiniNVR).
- 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: NVR supports mobile devices through 3G network to stream live view video.

External Device

- Point of Sale (POS): Point of Sales system works on NVR by overlaying the trans action text from cash register onto live video channels. All POS recordings are searchable
- External I/O capacity: External I/O box

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: Signal Digital Input Event General Motion
 - System Event:
 - Missing Object
- · System alarm on Disk Space Exhausted
- · Foreign Object · Focus Lost
- · System alarm on System Health Unusual (CPU temperature)
- · System alarm on Resource Depleted (CPU loading)
- · Camera Occlusion · System alarm on Network Congestion
- · Signal Lost
- Instant alarm notification is the fastest and most cost efficient way to automatically respond to any smart detection event.
 - 10n Screen Display
 - Send a SMS message · Play Sound
 - · Send E-mail
- · Send to Central Server
- Phone Call · PTZ Preset Go
- Send Snapshot to FTP
- Popup E-Map on Event
- · Signal Digital Output

Maxiwatch Professional Video Smart Intelligence





General Motion

Help users to monitor motions and can pinpoints subjects in defined area that detected intruders and trigger alarm



Camera Occlusion

Automatically detects if unidentified personal block cameras lens in an area to deter any vandalism, and alarms activated when any of the cameras is blocked



Missing Object

When an objects has been removed, missing from a detected zone, it will detects and identified to prevent Crime



Foreign Object

It can detects objects such as unidentified suitcase, Baggage appeared in area to help security people to take actions on potentially threat and damages



Lose Focus

When camera has been tore down, blurred pictures occurred for long period, it will show focus lose in the camera channel to alarm the user



Signal Lost

Automatically detects poor signals or signals lost from camera operation under surveillance to create seamless monitoring environment for best management



Counting Application

It can mark up two areas and count objects from in and out direction to monitor flow of movement in detected zone.



Multiple IP Brands Support

IP PTZ | IP CAMERA | IP BULLET | IP VANDAL DOME | CAMERA SERVER | IP SOFTWARE | HYBRID DVR | NVR | EXTERNAL NAS | EXTERNAL SCSI | CMS | POE

H.264 Intelligence DVR Card







CP-3004M



CP-3008M



CP-3016M

Key Features

- Support 32CH CIF real-time recording
- H.264 H/W Compression
- Support up to 32 channels
- Support megapixel IP camera
- Triple monitor display
- Support Joystick
- E-map
- 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
- Remote live viewer, remote playback, remote backup, remote I/O control and remote desktop configuration
- Supported by Central Management System
- Supports 30 brands of IP cameras and more than 520 models

Technical Specifications

Model	CP-3004M	CP-3008M	CP-3016M		
Video Input	4 Cameras	8 Cameras	16 Cameras		
Audio Input	4 Channels	8 Channels	16 Channels		
Display Rate@D1	120 fps (NTSC),	240 fps (NTSC),	480 fps (NTSC),		
Display Nate@D1	100 fps (PAL)	200 fps (PAL)	400 fps (PAL)		
Recording Rate @D1	30 fps (NTSC),	60 fps (NTSC),	120 fps (NTSC),		
Recording Rate @DT	25 fps (PAL)	50 fps (PAL)	100 fps (PAL)		
Recording Rate CIF	120 fps (NTSC),	240 fps (NTSC),	480 fps (NTSC),		
	100 fps (PAL)	200 fps (PAL)	400 fps (PAL)		
Video Resolution	NTSC: 176 x 120, 352 x 240, 704 x 480				
video Nesolation	PAL: 176 x 144, 352 x 288, 704 x 576				
Compression Format	Hardware Compression H.264				
Interface	PCI-e				
Available I/O Box	Support				
Hardware Watchdog	Support				
Hybrid IP	Support Multiple Brands with IP License				
Dimension	167 (W) x 121 (H) mm	167 (W) x 121 (H) mm	216 (W) x 126 (H) mm		

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

User Interface





Remote Software

I.E

Live

IP PTZ | IP CAMERA | IP BULLET | IP VANDAL DOME | CAMERA SERVER | IP SOFTWARE | HYBRID DVR | NVR | EXTERNAL NAS | EXTERNAL SCSI | CMS | POE

H.264 Intelligence DVR Card **Real Time D1 Resolution**







CP-3004H



CP-3008H



Key Features

- Support 32CH D1 real-time recording
- H.264 H/W Compression
- Support UP to 32 channels
- Support megapixel IP camera
- Triple monitor display
- Support Joystick
- E-map
- 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
- Remote live viewer, remote playback, remote backup, remote I/O control and remote desktop configuration
- Supported by Central Management System
- Supports 30 brands of IP cameras and more than 520 models

Accessories



POS Box

Technical Specifications

<u>'</u>				
Model	CP-3004H	CP-3008H	СР-3016Н	
Video Input	4 Cameras	8 Cameras	16 Cameras	
Audio Input	4 Channels	8 Channels	16 Channels	
Display Rate@D1	120 fps (NTSC),	240 fps (NTSC),	480 fps (NTSC),	
Display Nate@D1	100 fps (PAL)	200 fps (PAL)	400 fps (PAL)	
Recording Rate @D1	120 fps (NTSC),	240 fps (NTSC),	480 fps (NTSC),	
Recording Nate @D1	100 fps (PAL)	200 fps (PAL)	400 fps (PAL)	
Video Resolution	NTSC: 176 x 120, 352 x 240, 704 x 480			
Video Resolution	PAL: 176 x 144, 352 x 288, 704 x 576			
Compression Format	Hardware Compression H.264			
Interface	PCI-e			
Available I/O Box	Support			
Hardware Watchdog	Support			
Hybrid IP	Support Multiple Brands with IP License			
Dimension	167 (W) x 121 (H) mm	167 (W) x 121 (H) mm	216 (W) x 126 (H) mm	

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

User Interface

Live







Remote Software

I.E

POS Box Solution





Key Features

- Support all FINEST NVR/DVX/NDVR Mini NVR 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
- Microsoft Access format Database of transaction data

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

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
 - 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 Access

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

Other

- E-Map
- 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 Diagram

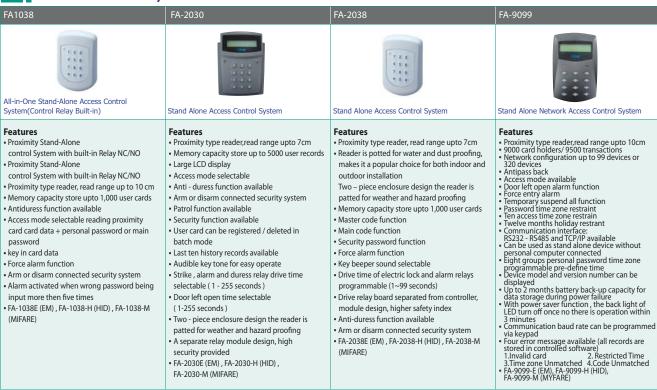
System Diagram



Total Solution CCTV, IP, Access Control + Capture Cards



Access Control System



FEC-6016/6032 Lift Control System

FA-2030-M (MIFARE)



Features

- Elevator Controller {16/32 floors}
 Relay Contact NO/NC type selectable
 Relay dry contact by pass mode auto and manual operation selectable
 Suitable for FA-9099





Total Solution-CCTV, IP, Access Control+Capture Cards



- CP-3004M, CP-3008M, CP-3016M
 Support 32CH CIF real-time recording

- H.264 H/W Compression
 Support up to 32 channels
 Support megapixel IP camera
 Triple monitor display

- Support Joystick
 E-map
 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

- analytics searches
 POS and I/O device integration
 Remote live viewer, remote playback, remote backup, remote I/O control and remote desktop configuration
 Supported by Central Management System
 Supports 30 brands of IP cameras and more than 520 models
 Hybrid flunction (postion)
- Hybrid function (option)

- CP-3004H, CP-3008H, CP-3016H Support 32CH D1 real-time recording
- Support 32CH D1 real-time re H.264 H/W Compression
 Support up to 32 channels
 Support megapixel IP camera
 Triple monitor display
 Support Joystick

- E-IIIAD
 Unique GUI recording schedule
 Digital PTZ and multi-view
 Smart detection of 6 events with 10 instant
- responses

- responses

 Counting application

 Intelligent playback system with 5 video analytics searches
 POS and I/O device integration

 Remote live viewer, remote playback, remote backup, remote I/O control and remote desktop configuration

 Supported by Central Management System
 Supports 30 brands of IP cameras and more than 520 models
 Whylid (Inviction (ontion)
- Hybrid function (option)



Total Solution CCTV, IP, Access Control+Capture Cards



Access Control System



Cards FSD-1000 FSD-2000-K FSD-1000-K FSD-1000RD Thick Card, 125KHZ, EM Format (Read Only) Thin Card, 125KHZ, EM Forma EM Format With Key Ch FSD-2000 FSD-3000 HID ProxCard'II Mifare Iso Card Electronic Blot Lock FSD-3300 Magenetic Lock Wiring Instruction Magnetic Lock Wiring Instructio Voltage: 12/24VDC Voltage: 12/24VDC Weight 0.9 kgs Weight 1.5 kgs

HID Clamshell Card (26BIT)

DVX-9000HC Series H.264 PC-Based DVR





Key Characteristics

- D1 (704 x 576) Hardware Compression H.264 Encoding
- Real Time Live Surveillance
- Real Time Audio and Video Recording
 Full Screen, 1 / 4 / 6 / 9 / 10 / 16 Split-Screen Display
- Agility Motion Detection Support
- Support TCP/IP, PPPoE and DHCP
 Support NAS or USB external storage
- SATA or IDE interface HDD, CD-RW or DVD-RW back up support
- Remote viewing and remote playback via softwareOperation systems is Windows XP / 2003

Technical Specifications

Model	DVX-9004HC	DVX-9008HC	DVX-9016HC	DVX-9032HC
Video Input	4	8	16	32
Audio Input	4	8	16	32
Sensor Input / Relay Output	4 in / 4 Out or 16 in / 16 Out			
Compression Standard		H.2	264	
VGA Output		32 Bit Tr	ue Color	
Display Rate@D1	120 fps (NTSC), 100 fps (PAL)	240 fps (NTSC), 200 fps (PAL)	480 fps (NTSC), 400 fps (PAL)	960 fps (NTSC), 800 fps (PAL)
Recording Rate @D1	30 fps (NTSC), 25 fps (PAL)	60 fps (NTSC), 50 fps (PAL)	120 fps (NTSC), 100 fps (PAL)	240 fps (NTSC) 200 fps (PAL)
Recording Rate CIF	120 fps (NTSC), 100 fps (PAL)	240 fps (NTSC), 200 fps (PAL)	480 fps (NTSC), 400 fps (PAL)	960 fps (NTSC) 800 fps (PAL)
Video Resolution	NTSC: 176 x 120, 352 x 240, 704 x 480 PAL: 176 x 144, 352 x 288, 704 x 576			
Compression Format		Hardware Cor	npression H.264	
Language	English / Traditional Chinese / France / Germany / Russian / Spain / Greek / Italian / Portuguese			
Redundant Power Supply	100V ~ 240VAC Auto Switch			
Size	427cm(L) x 528.5cm (W) x 132.6mm (H)			

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 L Frutiger Light

Web-browser (client)

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

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

Watermark

Protect for original recording from alternation with our watermark verification

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

Application Diagram



DVX-9000HD Series H.264 Full D1 Real Time DVR





Key Characteristics

- 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 searchE-map and GUI recording schedule

- POS and I/O device integration
 Triple monitor display for SPOT monitor and Dual Monitor
 Remote live viewer, playback, backup, I/O control, desktop configuration
- Digital PTZ and multiple viewer
- Synchronized with joystick
- Built-in DVD-RW support backup on DVD/CD directly
- Up to 64 sensors in / relay output
- Support up to 5 HDDs insideSupport 22 languages

Technical Specifications

Model	DVX-9004HD	DVX-9008HD	DVX-9016HD	DVX-9032HD
Video Input	4	8	16	32
Audio Input	4	8	16	32
Sensor Input /		4 in / 4 out or	16 in / 16 out	
Relay Output		4 III / 4 Out Oi	10 1117 10 Out	
Compression Standard		H.2		
VGA Output		32 Bit Tr	ue Color	
Live Display Frame	120 fps	240 fps	480 fps	960 fps
Video Recording Frame	120 fps	240 fps	480 fps	960 fps
Video Resolution	NTSC: 176 x 120(CIF), 352 x 240(VGA), 704 x 480(D1) PAL: 176 x 144(CIF), 352 x 288(VGA), 704 x 576(D1)			
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)			

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 L Frutiger Light

Web-browser (client)

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

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

Watermark

Protect for original recording from alternation with our watermark verification

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

Application Diagram



4 / 8 / 16 Channel NAS Mini Linux NVR







NAS-E1080 / NAS-E1016

Key Characteristics

- Linux Embedded Free from PC crash and virus attack
- Server-Client Architecture
- Web-based management (Recommend on IE7 or above)
- Easy installation
- Manage 2 / 4 / 8 / 16 IP cameras
- Online GUI recording schedule
- RAID 0,1,5,5+spare and 10, prevention of data loss
- Support 25 brands of IP cameras and 735 models
- Support ImmerVision lens
- Support Megapixel camera and H.264 compression format
- Support D1, real-time and audio recording
- Up to 128 channels live display on multiple monitors
- Multiple camera streams to display in LiveView
- Support E-map with device indicator
- Playback system with 5 intelligent search
- Support Point of Sale (POS)
- 2/4 SATA HDD bays Embedded
- External storage Up to 16TB total recording space
- \blacksquare Recording without PC turning on
- Remote I/O solution and camera I/O integration
- Supported by FINE CMS
- upported by iPhone iViewer

Technical Specifications

NAS-E1040

Model	NAS-E1040	NAS-E1080	NAS-E1016
Recording Cameras	1~4	1~8	/ 1~16
Playback channels	4	8	/ 16
Number of Drives	2xSATA II	4xSATA II	4xSATA II
Max Storage of Compatible HDD	2TB	2TB	2TB
RAID Level	RAID 0,1	RAID 0, 1, 5, 10	RAID 0, 1, 5, 10
I/O Interface	1xUSB 2.0 (for UPS)	2xUSB 2.0 (for UPS); 1xeSATA (for external storage ² : DAS)	2xUSB 2.0 (for UPS); 1xeSATA (for external storage ³ : DAS)
LAN Transmission Speed		Thesh th that external storage . Dr sh	10/100/1000 Mbps (RJ45)
Voltage	100-240V	100-230V	100-230V
Power Consumption	39W	72W	72W
Device Dimension	92.0 x 145.2 x 213.2 mm	188.2 x 152.5 x 229.6 mm	188.2 x 152.5 x 229.6 mm
Device Weight (without drive)	1.0 kg (2.2lbs)	2.5 kg (5.5lbs)	2.5 kg (5.5lbs)
Temperature	Operating: 5°C to 35°C (±5°C)		
Humidity	Operating: 10%-85%		
Supported IP Camera	FINE, Axis , Panasonic, SONY, Vivotek, Acti, Arecont Vision, SANYO, Basler, Brickcom, CISCO, CNB, DLINK,		
Brand(s): 25 brands	ENEO, Hikvision, IQinVision, Levelone, Linksys, Lumenera, Mobotix, Samsung, SANTEC, StarDot, Toshiba, Videosec, ZAVIO		
Compression Format	MPEG4, M-JPEG, H.264, MxPEG (depends on IP camera)		
Recording Performance	Around 60fps at 1.3M	Around 160fps at 1.3M	Around 160fps at 1.3M
Recording Ferrormance	Total bitrate: 20Mbps	Total bitate: 65 / 55Mbps	Total bitate: 65 / 55Mbps
Recording Type	Continuous record, Record by schedule, Event trigger record, Digital input trigger record		
Remote Live View Control	Liveview, PTZ control, Patrol/Focus, Preset set/go, Auto Scan, Snapshot		
Audio & Video Recording	Audio and video recording in synchronization		
POS	Liveview, record and search for every transaction		
Auto Backup	Automatically backup the recorded video of the date before to FTP server		
Intelligent Search	General motion, Missing object, Foreign object, Lose focus, Camera occlusion		
Remote Live View Connection	Live view maximum 16 connections at the same time		
Supported Language	English, Japanese, Traditional Chinese, Spanish, Deutsch, French, Italian, Russian, Czech, Korean,		
Supported Language	Polish, Dutch, Swedish, Portuguese (Brazil)		

System Minimum Requirement			
Model	NAS-E1040	NAS-E1080	NAS-E1016
OS	Windows XP / 2003 / Vista / Win7		
CPU	Intel Core 2 Duo, 2.6GHz		
RAM	1GB		
LAN Transmission Speed	10/100/1000 Mbps (RJ45)		
		1. Web browser: Internet Explorer 7 or 8	
UI		2. Client Application Program	
		3. iPhone iViewer	

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

4 / 8 / 16 Channel NAS Mini Linux NVR



Technical Details

System, Setting, Management and Integration

Server-Client Architecture

Centralizes all video data transaction only via NAS NVR to remote clients. With this centralized structure, total camera loading remain the same level, thus ensure good recording quality even with maximum of remote client access.

Open Platform

Supports 735 IP cameras and video servers (encoders) from 25 brands of major network camera manufacturers.

Automatic Camera Model Detection

NAS NVR can automatically search for IP cameras in the network (camera should support UPnP protocol or should be implemented its search tool). For those unsearchable cameras, user can manually insert it. The auto detection function will help the user to find the brand and model of the camera after specifying its IP address.

Storage Optimization

NAS NVR supports H.264 compression format increasing the storage capacity to nearly 600% of MJPEG and 150% of MPEG4.

Friendly GUI Recording Scheduler

Graphical user interface to setup recording schedule featuring unique day mode and week mode.

Event & Action

4 camera events including motion detection (if the camera has it), connection lost and camera input; 1 input event from remote I/O box; 3 system events and daily system report through E-mail; 3 instant alarm responses supporting output, E-mail and CMS alarm system.

Online RAID Capacity Expansion and Level Migration

Support RAID 0,1,5,5+ spare and 10 for maximum capacity or data protection at the HDD level.

Point of Sale (POS)

POS text overlay on live view video and recordings. All recorded POS transactions are searchable in the NAS NVR database.

Remote I/O

With the integration of camera I/O and FINE I/O Box, system can start recording when input triggered, or trigger output as an event happened.

The authorities of different kinds of users

Web Viewer logins to the NAS Server via 4 different user groups: administrator, power user, user, and guest. Each user group has its own distinctive privilege in system configuration, live view camera and playback camera.

Log System

Hardware log keeps track of system operation; NVR log for camera status and user access; NVR event Log for special events.

Remote Operation

Multiple Live View Channel

Up to 16 channels per in web client and 64 channels in Remote Live Viewer client (up to 128 channels on multiple monitors). In addition, Remote Live Viewer client can access and display live video from any FINE servers (NAS NVR, DVX Series, NVR-2U Series) simultaneously.

Multiple Playback Channel

Up to 16 channels in web playback client/ Playback System.

Multi-View

NAS NVR 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.

Stream Profile

Live display multiple camera streams with lower bitrate, while still having good quality recorded videos.

Intelligent PTZ

Joystick support on PTZ cameras and software enabled digital PTZ function are both available in NAS NVR. Preset points and patrol functions are also available on many camera models.

I/O Event Control

Control I/O for event detection, instant action and digital output.

E-Map

Show device indicator on map for easily find and track device location. Furthermore, pop up map to point out the device when an event occurred.

Playback, Search, Export and Secure Data

Post-Recording Processing

Intelligent search, digital PTZ and video enhancement tool.

Intelligent Search

Search recorded video for 5 events including general motion, foreign object, missing object, loss focus and camera occlusion.

Video Enhancement

Fine tune the image's visibility, sharpen, brightness, contrast or even grey scale.

Evidence Export

Snapshot and print video image in BMP/ JPEG; backup video in DAT; save video in ASF/AVI.

Action Alert: Notify users on camera and system event through sound, digital output, E-mail and FINE CMS alert.

Auto Backup

Automatically backup the recorded video of the date before to a designated FTP server.

Manual Backup

Manual backup or delete recordings of any NAS NVR.

Watermark: Protect for original recording from alternation with our watermark verification tool.

Extended Service

FINE Central Management System (CMS)

Ultimate central monitoring solution for grand scale projects and projects with multiple sites. Fully compatible with all FINE servers (NAS NVR, DVX Series, NVR-2U Series)

External device

POS BO

FINE Point of Sales system works on NAS NVR by overlaying the transaction text from cash register or ATM machines onto live video channels. All POS recordings are searchable.

Remote I/O Box

I/O signals of I/O Box are converted to Ethernet through converter, which enables NAS NVR to do more sophisticated application, such as starting recording when input triggered, triggering output as an event happened, and much more.

ImmerVision Lens

PTZ mode, Quad mode and Perimeter mode are supported on liveview and playback. Please refer to ImmerVision's website for qualified cameras.

APC UPS

Continues to feed the NAS NVR power at an event of power outage.

DAS

The total recording space can be up to 16TB by connecting DAS with NAS-E1080 & NAS-E1016

NVR-2U4S Professional 2U Rackmount Network Video Recorder With Maxi Watch Software





Key Features

- Record up to 4 audio/video streams
- Record up to 120fps at full D1 resolution
- PC Industrial Computing Rack mount 2U
- H.264, MPEG-4/JPEG dual codec depend on the camera compression
- Support external RAID 5, NAS connection, USB storage
- AP Client Remote View Software, and I.E. Browser
- Support different IP Camera Brands
- Disk on Module Utility with Greater stability

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 16 channels of live video stream or 16 channels of playback in I.E.

Dual Monitor

Up to 64 channels of live view video can be displayed per monitor.

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

 $\operatorname{\mathsf{GUI}}$ 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

Watermark

Protect for original recording from alternation with our 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 ServerSend Snapshot to FTP
- · Popup E-Map on Event

Technical Specifications

Model	NVR-2U4S
No. of IP Cameras	4
Video Resolution	Megapixel / Full D1 / CIF/ QCIF /
Compression Standard	H.264 , MPEG4/JPEG
Communication Protocols	TCP / IP, DHCP, PPPOE
Video Encryption	Yes
Operation System	Windows XP / Windows 2003 Server / Windows Vista / Windows 7
USB Joystick	Compatible with AXIS Keyboard
Back Up Function	SCSI / USB Interface HDD / CDR-W / DVD-RW
Live display	True real-time 30fps(N) per channel , 25fps(P) per channel
Live display	VGA resolution display
Bandwidth Control	Automatic (Automatic Transmission Control)
Max. Remote Users	10 simultaneously
Protocol Support	Simultaneously TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP, RTP/RTCP, RTSP, RTP/UDP, IGMP
Digital zoom	Maximum 25 X digital
Smart intelligence	Motion detection General motion, Missing object, camera occlusion, foreign object, signal lost, focus lose
Network Type	RJ 45 (10/100/1000 Base-T)
Internal IDE or SATA Hard Disk	Max. Up to 4HDD (without DVD-RW),4TB
Internal IDE of SAIA Hard DISK	2HDD + DVD-RW
Language	English / Traditional Chinese / France / Germany / Russian / Spain / Greek / Italian / Portuguese
Redundant Power Supply	Power Supply 100V ~ 240VAC Auto Switch, 400W
Dimension	53cm(L) x 8.6cm(H) x 48.3cm(W)
Operating Temperature	0 ~ +40° €
Storage Temperature	-20° C ~ +60° C

▶ Specifications are subjected to change without prior notice.

User Interface





Playback





Remote Software

Live

NVR-2U8S Professional 2U Rackmount Network Video Recorder With Maxi Watch Software





Key Features

- Record up to 8 audio/video streams
- Record up to 240 fps at full D1 resolution
- PC Industrial Computing Rack mount 2U
- H.264, MPEG-4/JPEG dual codec depend on the camera compression
- Support external RAID 5, NAS connection, USB storage
- AP Client Remote View Software, and I.E. Browser
- Support different IP Camera Brands
- Disk on Module Utility with Greater stability

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 16 channels of live video stream or 16 channels of playback in I.E.

Dual Monitor

Up to 64 channels of live view video can be displayed per monitor.

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

Watermark

Protect for original recording from alternation with our 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 messageSend to Central Server
- · Send Snapshot to FTP
- · Popup E-Map on Event

Technical Specifications

Model	NVR-2U8S
No. of IP Cameras	8
Video Resolution	Megapixel / Full D1 / CIF/ QCIF /
Compression Standard	H.264 , MPEG4/JPEG
Communication Protocols	TCP / IP, DHCP, PPPOE
Video Encryption	Yes
Operation System	Windows XP / Windows 2003 Server / Windows Vista / Windows 7
JSB Joystick	Compatible with AXIS Keyboard
Back Up Function	SCSI / USB Interface HDD / CDR-W / DVD-RW
Live display	True real-time 30fps(N) per channel , 25fps(P) per channel
	VGA resolution display
Bandwidth Control	Automatic (Automatic Transmission Control)
Max. Remote Users	10 simultaneously
Protocol Support	Simultaneously TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP, RTP/RTCP, RTSP, RTP/UDP, IGMP
Digital zoom	Maximum 25 X digital
Smart intelligence	Motion detection General motion, Missing object, camera occlusion, foreign object, signal lost, focus lose
Network Type	RJ 45 (10/100/1000 Base-T)
nternal IDE or SATA Hard Disk	Max. Up to 4HDD (without DVD-RW),4TB
IIILEITIAI IDE OI SAIA HAIU DISK	2HDD + DVD-RW
_anguage	English / Traditional Chinese / France / Germany / Russian / Spain / Greek / Italian / Portuguese
Redundant Power Supply	Power Supply 100V ~ 240VAC Auto Switch, 400W
Dimension	53cm(L) x 8.6cm(H) x 48.3cm(W)
Operating Temperature	0 ~ +40° C
Storage Temperature	-20° C ~ +60° C

▶ Specifications are subjected to change without prior notice.

User Interface









Remote Software

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Live

NVR-2U12S Professional 2U Rackmount Network Video Recorder With Maxi Watch Software





Key Features

- Record up to 12 audio/video streams
- Record up to 360 fps at full D1 resolution
- PC Industrial Computing Rack mount 2U
- H.264, MPEG-4/JPEG dual codec depend on the camera compression
- Support external RAID 5, NAS connection, USB storage
- AP Client Remote View Software, and I.E. Browser
- Support different IP Camera Brands
- Disk on Module Utility with Greater stability

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 16 channels of live video stream or 16 channels of playback in I.E.

Dual Monitor

Up to 64 channels of live view video can be displayed per monitor.

Bandwidth Monitor

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

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 ApplicationIntelligent 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 Watermark

Protect for original recording from alternation with our 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

Technical Specifications

	NIII 231/20
Model	NVR-2U12S
No. of IP Cameras	12
Video Resolution	Megapixel / Full D1 / CIF/ QCIF /
Compression Standard	H.264 , MPEG4/JPEG
Communication Protocols	TCP / IP, DHCP, PPPOE
Video Encryption	Yes
Operation System	Windows XP / Windows 2003 Server / Windows Vista / Windows 7
USB Joystick	Compatible with AXIS Keyboard
Back Up Function	SCSI / USB Interface HDD / CDR-W / DVD-RW
Live display	True real-time 30fps(N) per channel , 25fps(P) per channel
Live display	VGA resolution display
Bandwidth Control	Automatic (Automatic Transmission Control)
Max. Remote Users	10 simultaneously
Protocol Support	Simultaneously TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP, RTP/RTCP, RTSP, RTP/UDP, IGMP
Digital zoom	Maximum 25 X digital
Smart intelligence	Motion detection General motion, Missing object, camera occlusion, foreign object, signal lost, focus lose
Network Type	RJ 45 (10/100/1000 Base-T)
Internal IDE or SATA Hard Disk	Max. Up to 4HDD (without DVD-RW), 4TB
IIILEITIAI IDE OF SATA FIAIG DISK	2HDD + DVD-RW
Language	English / Traditional Chinese / France / Germany / Russian / Spain / Greek / Italian / Portuguese
Redundant Power Supply	Power Supply 100V ~ 240VAC Auto Switch, 400W
Dimension	53cm(L) x 8.6cm(H) x 48.3cm(W)
Operating Temperature	0 ~ +40° C
Storage Temperature	-20° C ∼ +60° C

▶ Specifications are subjected to change without prior notice.

User Interface









I.E Remote Software

NVR-2U16S Professional 2U Rackmount Network Video Recorder With Maxi Watch Software





Key Features

- Record up to 16 audio/video streams
- Record up to 480 fps at full D1 resolution
- PC Industrial Computing Rack mount 2U
- H.264, MPEG-4/JPEG dual codec depend on the camera compression
- Support external RAID 5, NAS connection, USB storage
- AP Client Remote View Software, and I.E. Browser
- Support different IP Camera Brands
- Disk on Module Utility with Greater stability

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 16 channels of live video stream or 16 channels of playback in I.E.

Dual Monitor

Up to 64 channels of live view video can be displayed per monitor.

Bandwidth Monitor

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

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

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 ApplicationIntelligent 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 our watermark verification tool Instant alarm notification

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- · 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

Technical Specifications

Model	NVR-2U16S
No. of IP Cameras	16
Video Resolution	Megapixel / Full D1 / CIF/ QCIF /
Compression Standard	H.264, MPEG4/JPEG
Communication Protocols	TCP / IP, DHCP, PPPOE
Video Encryption	Yes
Operation System	Windows XP / Windows 2003 Server / Windows Vista / Windows 7
USB Joystick	Compatible with AXIS Keyboard
Back Up Function	SCSI / USB Interface HDD / CDR-W / DVD-RW
Live display	True real-time 30fps(N) per channel , 25fps(P) per channel
Bandwidth Control	Automatic (Automatic Transmission Control)
Max. Remote Users	10 simultaneously
Protocol Support	Simultaneously TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP, RTP/RTCP, RTSP, RTP/UDP, IGMP
Digital zoom	Maximum 25 X digital
Smart intelligence	Motion detection General motion, Missing object, camera occlusion, foreign object, signal lost, focus lose
Network Type	RJ 45 (10/100/1000 Base-T)
Internal IDE or SATA Hard Disk	Max. Up to 4HDD (without DVD-RW), 4TB
Internal IDE of SAIA hard DISK	2HDD + DVD-RW
Language	English / Traditional Chinese / France / Germany / Russian / Spain / Greek / Italian / Portuguese
Redundant Power Supply	Power Supply 100V ~ 240VAC Auto Switch, 400W
Dimension	53cm(L) x 8.6cm(H) x 48.3cm(W)
Operating Temperature	0 ~ +40° C
Storage Temperature	-20° C ~ +60° C

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

User Interface









Remote Software

Live

NVR-2U25S Professional 2U Rackmount Network Video Recorder With Maxi Watch Software





Key Features

- Record up to 25 audio/video streams
- Record up to 120fps, 240 fps, 480 fps at full D1 resolution
- PC Industrial Computing Rack mount 2U
- H.264 , MPEG-4/JPEG dual codec depend on the camera compression
- Support external RAID 5, NAS connection, USB storage
- AP Client Remote View Software, and I.E. Browser
- Support different IP Camera Brands
- Disk on Module Utility with Greater stability

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 16 channels of live video stream or 16 channels of playback in I.E.

Dual Monitor

Up to 64 channels of live view video can be displayed per monitor.

Bandwidth Monitor

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

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 ApplicationIntelligent 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 Watermark

Protect for original recording from alternation with our watermark verification tool

Instant alarm notification

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- · 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

Technical Specifications

Model	NVR-2U25S	
No. of IP Cameras	25	
Video Resolution	Megapixel / Full D1 / CIF/ QCIF /	
Compression Standard	H.264 , MPEG4/JPEG	
Communication Protocols	TCP / IP, DHCP, PPPOE	
Video Encryption	Yes	
Operation System	Windows XP / Windows 2003 Server / Windows Vista / Windows 7	
USB Joystick	Compatible with AXIS Keyboard	
Back Up Function	SCSI / USB Interface HDD / CDR-W / DVD-RW	
Bandwidth Control	Automatic (Automatic Transmission Control)	
Max. Remote Users	10 simultaneously	
Protocol Support	Simultaneously TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP, RTP/RTCP, RTSP, RTP/UDP, IGMP	
Digital zoom	Maximum 25 X digital	
Smart intelligence	Motion detection General motion, Missing object, camera occlusion, foreign object, signal lost, focus lose	
Network Type	RJ 45 (10/100/1000 Base-T)	
Internal IDE or CATA Hard Diele	Max. Up to 4HDD (without DVD-RW), 4TB	
Internal IDE or SATA Hard Disk	2HDD + DVD-RW	
Language	English / Traditional Chinese / France / Germany / Russian / Spain / Greek / Italian / Portuguese	
Redundant Power Supply	Power Supply 100V ~ 240VAC Auto Switch, 400W	
Dimension	53cm(L) x 8.6cm(H) x 48.3cm(W)	
Operating Temperature	0 ~ +40° C	
Storage Temperature	-20° C ~ +60° C	

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

User Interface



Live







Remote Software

NVR-2U32S Professional 2U Rackmount Network Video Recorder With Maxi Watch Software





Key Features

- Record up to 32 audio/video streams
- Record up to 120fps, 240 fps, 480 fps at full D1 resolution
- \blacksquare PC Industrial Computing Rack mount 2U
- H.264, MPEG-4/JPEG dual codec depend on the camera compression
- Support external RAID 5, NAS connection, USB storage
- AP Client Remote View Software, and I.E. Browser
- Support different IP Camera Brands
- Disk on Module Utility with Greater stability

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 16 channels of live video stream or 16 channels of playback in I.E.

Dual Monitor

Up to 64 channels of live view video can be displayed per monitor.

Bandwidth Monitor

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

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 ApplicationIntelligent 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 our 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

Technical Specifications

Model	NVR-2U32S	
No. of IP Cameras	32	
Video Resolution	Megapixel / Full D1 / CIF/ QCIF /	
Compression Standard	H.264 , MPEG4/JPEG	
Communication Protocols	TCP / IP, DHCP, PPPOE	
Video Encryption	Yes	
Operation System	Windows XP / Windows 2003 Server / Windows Vista / Windows 7	
USB Joystick	Compatible with AXIS Keyboard	
Back Up Function	SCSI / USB Interface HDD / CDR-W / DVD-RW	
Bandwidth Control	Automatic (Automatic Transmission Control)	
Max. Remote Users	10 simultaneously	
Protocol Support	Simultaneously TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP, RTP/RTCP, RTSP, RTP/UDP, IGMP	
Digital zoom	Maximum 25 X digital	
Smart intelligence	Motion detection General motion, Missing object , camera occlusion, foreign object, signal lost, focus lose	
Network Type	RJ 45 (10/100/1000 Base-T)	
Internal IDE or SATA Hard Disk	Max. Up to 4HDD (without DVD-RW), 4TB	
IIILEITIAI IDE OF SATA HAID DISK	2HDD + DVD-RW	
Language	English / Traditional Chinese / France / Germany / Russian / Spain / Greek / Italian / Portuguese	
Redundant Power Supply	Power Supply 100V ~ 240VAC Auto Switch, 400W	
Dimension	53cm(L) x 8.6cm(H) x 48.3cm(W)	
Operating Temperature	0 ~ +40° C	
Storage Temperature	-20° C ~ +60° C	

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

User Interface



Playback



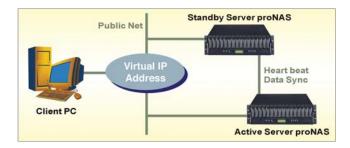


Remote Software

External NAS Storage 16 Bay







Key Features

- Configurable to 19" rack-mountable 3U chassis
- Supports up to Sixteen (16) 1" hot-swappable SATA II hard drives
- Supports Tape / DAT backup / restore
- Supports RAID levels 0, 1, 0+1, 3, 5, 6 and JBOD
- Smart-function LCD panel for RAID setting & ENC status
- Supports hot spare and automatic hot rebuild.
- Allows online capacity expansion within the enclosure
- Two Gigabit Ethernet ports
- Linux-based embedded system (128MB Disk on Module)
- Centralization of Data and Storage Management
- Using Market-Leading Java Technology
- Latest volume snapshot technology
- Apply volume replication to enhance data protection
- Support logical volume over 2TB
- Data Backup via backup plan and scheduling
- Enhance system configuration backup
- Local and external account management
- Large account import
- Share management and permission
- Advance ACL setting for project share
- Support Internet Gateway function
- Online expansion file system
- Support E-mail notification and system log information
- Multi application support via proFamily

Technical Specifications

WINS Server

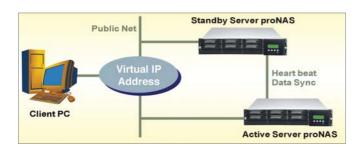
Unit acts as a DHCP server
Unit acts as a master browser
Share level security
File level security
User ID security for NFS

OT-R3163H-NS				
Hardware Platform	Macintosh Support			
Intel Quad Core Xeon 2.0G or above, single / dual Processor	AFP over Apple Talk			
Cache memory°G1GB DDR2-533 FBDIMM up to 16GB	AFP over TCP/IP			
Two Gigabit Ethernet ports	Mac zones			
Up to Sixteen 1" hot-swappable SATA II (3Gb/s, NCQ support) hard drives	General			
Real time drive activity and status indicators	File Server Independent			
Environmental monitoring unit	Peer-to-peer operation			
Three(3) 460W hot-swap power supplies with PFC	Localized language support			
Expansion PCI slot for H/W upgrade	Supports NIC / trunking / load balance / fail over			
External SCSI for Tape backup	Support UPS management			
RAID Controller	System Management			
Intel 80321 64 bit RISC	Automatic IP address configuration			
RAID level RAID 0, 1, 0+1, 3, 5 , 6 and JBOD	Self-contained unit - no extras neededManagement through Web browser			
Supports 128MB up to 1GB of cache ECC unbuffered	Flash upgradeable unit			
Supports hot spare and automatic hot rebuild	Supports Microsoft ADS / PDC and Unix NIS accounts import			
Allows online capacity expansion within the enclosure	SNMP / MRTG management and notification			
Built-in serial port interface for remote event notification	Fail-free online firmware upgrade			
Local audible event notification alarm	Unicode support			
Storage Management	Multi-node Management GUI			
Volume Management	CLI management via Telnet or SSH			
Disk usage statistics	Data Protection			
Hot spare capability	proNAS High Availabiltiy (option)			
Volume Snapshot	proBackup Client Backup			
Volume Replication	proNAS Data and Configuration Backup			
Connectivity	Support Veritas BackupExec Agent			
SMB, CIFS over TCP/IP	Power requirements			
NFS over UDP/IP	AC 90V ~ 264V Full range			
Cross platform data access	16A ~ 8A, 47~63Hz			
Novell Netware support	Physical Dimension			
FTP, HTTP file transfer	133(H) x 482(W) x 740(D) mm			
DHCP				
NAT	Specifications are subjected to change without prior notice.			
Internet gateway				
WINS Server				

External NAS Storage 8 Bay







Key Features

- Configurable to 19" rack-mountable 3U chassis
- Supports up to Sixteen (16) 1" hot-swappable SATA II hard drives
- Supports Tape / DAT backup / restore
- Supports RAID levels 0, 1, 0+1, 3, 5, 6 and JBOD
- Smart-function LCD panel for RAID setting & ENC status
- Supports hot spare and automatic hot rebuild.
- Allows online capacity expansion within the enclosure
- Two Gigabit Ethernet ports
- Linux-based embedded system (128MB Disk on Module)
- Centralization of Data and Storage Management
- Using Market-Leading Java Technology
- Latest volume snapshot technology
- Apply volume replication to enhance data protection
- Support logical volume over 2TB
- Data Backup via backup plan and scheduling
- Enhance system configuration backup
- Local and external account management
- Large account import
- Share management and permission
- Advance ACL setting for project share
- Support Internet Gateway function
- Online expansion file system
- Support E-mail notification and system log information
- Multi application support via proFamily

Technical Specifications

Model	OT-R8903H-NS		
Hardware Platform	Unit acts as a master browser		
Intel Quad Core Xeon 2.0G or above,	Share level security		
single / dual Processor	Strate level security		
Cache memory			
1GB DDR2-533 FBDIMM up to 16GB	File level security		
Two Gigabit Ethernet ports	User ID security for NFS		
Up to Eight 1" hot-swappable SATA II	Macintosh Support		
(3Gb/s, NCQ support) hard drives			
Real time drive activity and status indicator	AFP over Apple Talk		
Environmental monitoring unit	AFP over TCP/IP		
Two(2) 500W hot-swap power supplies with PFC	Mac zones		
Expansion PCI slot for H/W upgrade	General		
External SCSI for Tape backup	File Server Independent		
RAID Controller	Peer-to-peer operation		
Intel 80321 64 bit RISC	Localized language support		
RAID level RAID 0, 1, 0+1, 3, 5, 6 and JBOD	Supports NIC/ trunking / load balance / fail over		
Supports 128MB up to 1GB of cache ECC unbuffered	Support UPS management		
Supports hot spare and automatic hot rebuild	System Management		
Allows online capacity expansion within the enclosure	Automatic IP address configuration		
Built-in serial port interface for remote event notification	Self-contained unit - no extras needed		
Local audible event notification alarm	Management through Web browser		
Storage Management	Flash upgradeable unit		
Volume Management	Supports Microsoft ADS / PDC and Unix NIS accounts import		
Disk usage statistics	SNMP / MRTG management and notification		
Hot spare capability	Fail-free online firmware upgrade		
Volume Snapshot	Unicode support		
Volume Replication	Multi-node Management GUI		
Connectivity	CLI management via Telnet or SSH		
SMB, CIFS over TCP/IP	Data Protection		
NFS over UDP/IP	proNAS High Availabiltiy (option)		
Cross platform data access	proBackup Client Backup		
Novell Netware support	proNAS Data and Configuration Backup		
FTP, HTTP file transfer	Support Veritas BackupExec Agent		
DHCP	Power requirements		
NAT	AC 90V ~ 264V Full range		
Internet gateway	8A ~ 4A , 47 ~ 63Hz		
WINS Server	Physical Dimension		
Unit acts as a DHCP server	88(H) x 482(W) x 740(D) mm		

▶ Specifications are subjected to change without prior notice.

External SCSI Storage 16 Bay





SHighest Density Available

- 3U chassis with 16 bays carriers.
- Over 4 Terabytes per chassis.

Extraordinary fault tolerance

- Advanced Data Guarding technology (RAID ADG) provides the highest level of data protection.
- RAID ADG can tolerate multiple simultaneous drive failures without downtime or data loss.

Unparalleled Aluminum material

- Aluminum is an Excellent Thermal Conductor.
- Aluminum Exhibits HighStrength-to-Weight Ratio.

Extraordinary performance

- Serial ATA II: The Next Generation Internal Storage Interconnect.
- Better connectivity, higher data transfer rates.

Key Features

- Supports RAID levels 0, 1, 0+1, 3, 5, 6 and JBOD.
- Supports hot spare and automatic hot rebuild.
- Allows online capacity expansion within the enclosure.
- Local audible event notification alarm.
- Supports password protection and UPS connection.
- Built-in serial port interface for remote event notification.
- Dual host channels support clustering technology.
- The RAID subsystem is made by aluminum Aluminum is an excellent thermal conductor and Aluminum offers a unique ombination of light weight and high strength.
- Tagged command queuing for 256 commands, allows for overlapping data streams.
- Transparent data protection for all popular operating systems.
- RAID ADG provides the highest level of data protection.
- RAID ADG can tolerate multiple simultaneous drive failures without downtime or data loss.
- Supports multiple array enclosures per host connection.

RAID Management

- Smart-function LCD panel.
- Environmental monitoring unit
- Real time drive activity and status indicators.
- Browser-based GUI management utility.

Technical Specifications

Model	OT-R3163-SA			
Form-factor	3U 19-inch rackmount chassis			
RAID processor	Intel 80321 64 bit RISC			
RAID Level	0, 1, 0+1, 3, 5, 6, JBOD			
Cache memory	128MB ~ 1024MB			
No. of channels (host+drive)	2 + 16			
Host bus interface	Ultra 320 LVD			
Drive bus interface	SATA II			
Data transfer rate	Up to 320MB/Sec			
Back plane board	SATA II			
Hot-swap drive trays	Sixteen (16) 1-inch trays			
Hot-swappable power supplies	Three (3) 300W power supplies w / PFC			
Cooling fans	2 (blower)			
Battery backup	Option			
Fibre Hub	No			
R-Link support	Yes			
SNMP Protocol Support	Yes			
Background RAID Initialization	Yes			
S.M.A.R.T	Yes			
Array roaming	Yes			
Power requirements	AC 90V ~ 254V Full Range			
rower requirements	12A / 6A at 110V / 220V, 50Hz / 60Hz			
Environmental				
Relative Humidity	10% ~ 85% Non-condensing			
Operating Temp	10°C ~ 40°C (50°F ~ 104°F)			
Physical Dimensions	133(H) x 482(W) x 609(D) mm			
rnysicai Dimensions	5.24(H) x 18.98(W) x 23.98(D) inches			
Weight	20.5kgs / 45.1Lbs (without drives)			

Function:

- *New disk auto spare *Host independent *Environment monitor *Online expansion *Continuous rebuild *Online consistency check *Failed drive auto rebuild
- *Failed drive indicators *Audible alarm *Password protection *UPS connection *Bad block auto-remapping *Multiple RAID selection *Online RAID level migration
- *E-mail Notification
- ▶ Specifications are subjected to change without prior notice.

Peripherals

GPIO Module







Technical Specifications

Model	CP-SIO44	
Input Channel	4 digital input channel	
Output Channel	4 digital output channel	
Communication Interface	RS-485	
Relay Type	2 Form A(R1,R2), 2Form C (R3, R4)	
Transmission distance	500M	
Signal LED	Power on, all channel	
Power supply	Screw terminal, or external DC adapter	
Power consumption	2.7W	
Dimension	151 x 75 x 26 mm	

Model	CP-SI16
Output Channel	16 digital output channels
Communication Interface	RS-485 differential 2 half / duplex wires
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

Model	CP-SO16		
Input Channel	16 digital input channels with counter		
Counter Channel / Frequency	16 / 100Hz		
Communication Interface	RS-485 differential 2 half / duplex wires		
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.

SCSI Card



RAID Management

- Enhanced Reliability and stability with a knock-down cooling fan
- Backward compatible with previous SCSI generations
- 133MHz, 64bit PCI-X interface, with maximum 1066 MB/s data throughput
- Supports Double Transition Clocking: Packetized

Protocol: Quick Arbitration and Selection: Skew Compensation and Domain Validation

Model	SCSI-390U4B			
Model				
Protocols Supported	Ultra 320 LVD, Ultra160/Ultra2 LVD, Ultra-Wide SCSI			
	Ultra & SCSI-2			
SCSI Processor	LSI 53C1020 (SCSI-390U4B Only)			
SCSI BIOS/Channel	Yes (Flash) Channel:Single (SCSI-390U4B)			
Max Transfer Bate	320 MB/Sec (Ultra320)			
Internal Connectors	68-pin HD (SCSI-390U4B Only)			
External Connector	68-pin VHDCI (SCSI-390U4B Only)			
PCI Interface	64/32 bit, PCI-X (SCSI-390U4B Only)			
Max Devices	15/30			
Drivers Available	Dos ASPI, Novell NetWare, Solaris, Sun Solaris, Windows 2000/NT/XP,			
	SCO Unix Open Desktop/Open Server, SCO UnixWare, Linux			
	Supported Internal SCSI			
	Devices: Transfer			
	Rate: 10MB/sec~320MB/sec, Bus			
	Width: 8-bit, 16-bit CD-ROM, CD-RW, DVD-ROM, MO, Tape, HDD,etc.			
Target Applications	Supported External SCSI			
	Devices: Transfer Rate: 80MB/sec~320MB/sec,			
	Bus Width: 16-bit HDD subsystem, RAID, CD-ROM, CD-RW, DVD-ROM,			
	MO, Tape, Scanner,ect.			
	Options: Different sized brackets can be mounted on either 1U or			
	2U case			
	20 (835			

▶ Specifications are subjected to change without prior notice.

Central Management System (CMS)



Software Block Diagram:

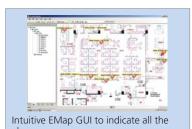




Manage all NVR / NDVR and supported IP camera/video server



Up to 64 concurrent live camera viewing for each video matrix





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

System everview	
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 & Remote Desktop	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.

IP PTZ | IP CAMERA | IP BULLET | IP VANDAL DOME | CAMERA SERVER | IP SOFTWARE | HYBRID DVR | NVR | EXTERNAL NAS | EXTERNAL SCSI | CMS

Central Management System (CMS)





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



Technical Details

■ NCS Alarm Server:

- Ultimate recording servers: Centralized management station supports unlimited number of recording servers (NDVR, NVR, DVR
- Client/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.
- SQL database: Uses SQL Server 2005 Express to store all alarm logs.
- Instant 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.
- · User 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.
- · Smart 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
- · License Management: To register and validate your licenses, the system offers easy-to-use online activation via the Internet and alternatively

■ NCS Client

Operator Mode:

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

■ E-Map:

- Hierarchical map tree: Tree structured map layout supporting unlimited maps layers.
- · Custom 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.
- · Instant 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.
- · Intuitive 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 data and more.
- · User-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.
- · Multiple image formats: Import any image in BMP, GIF, JPEG, PNG, and TIFF formats.

■ Alarm Management:

- Powerful 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
- · Alarm Priority: Assign alarm priorities (critical, high, normal, low) to each alarm to increase the efficiency in response and
- · Alarm Coverage: Operator can schedule each alarms to be active at a specific times or time intervals.
- · Alarm Management Guide: Attach an alarm management guide to each of the alarms so the operator knows how to respond to different alarms.
- · Alarm 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.
- · Print Alarm: Client can print out a detailed alarm report with snapshots, alarm guide and timestamp included.
- · Powerful 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.
- Export Alarm list: User can export alarm history to Excel table

■ NCS Matrix:

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

Remote Desktop

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

- Multi-channel Remote Playback: Remote playback of 16 channels recording from any one of the servers (NVR, DVR, NDVR and
- Layout: Playback in full screen, single channel, 4, 9 and 16 channel simultaneously.
- 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
- 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 (CMS)



Technical Specifications

Function	Description
Key features	
Client Common Analeitantum	One CMS server could be connected by several CMS
Client Server Architecture	clients
	Support all based site, as well as all I/O devices, POS
Supported Devices	and IP camera brands supported by Main Console
Supported Devices	v3.2.0 and NAS NVRmini v2.1
Unlimited Server Solution	Unlimited access of cameras and DVR/NVR/NVR-mini sites
	Unlimited matrix consoles could be connected through
Multiple Matrix System	network
	Up to 64 concurrent camera viewing for each matrix
Live Viewing	console
	Acknowledge or manage alarm log in the most efficient
Full Alarm Management	way.
	way.
Triple Monitor Scenario	
Default Monitor #1	Navigation Panel / Map Section
Default Monitor #2	Live Matrix System
Default Monitor #3	Alarm List / Message List / Remote Playback
CMS Server	
Alarm Database	Use SQL Server 2005 Express to store all the alarms
Harri Database	Store the site map data by hierarchical structures
	Directly connect to surveillance server to get alarm
Central Server	notifications
Certual Server	Provide TCP service for CMS clients' access through
	network
	Registers different time zones into UTC format
Supported Notification Type	Send E-mail / SMS message
3.	Seria E-mail / Sivis message
E-Map	
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
	Indicator icons support image format with alpha
Indicators on Maps	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
IIIStarit Status Notification	matically to notify users of the events
	Open Last Alarm
	Open Live Video Window
Intuitive Operation on Mans	Open Instant Playback Window
Intuitive Operation on Maps	Backup Recorded Video
	View Server Status Report
	Search POS transaction data
	Live popup window to use audio function and show live
Live Demonstration	video with PTZ control panel
Live Popup Window	Set stream profile to change video quality
	Snapshot and POS transaction overlay
	Remote playback popup window to replay recorded video
Playback Popup Window	and audio Export to AVI/ASF file and snapshot with
A STATE STREET	digital watermark
Alarm Management	
- Marin Mariagement	Video Cinnel Abrasan I
	Video Signal Abnormal
	Digital Input Trigger (Normal / Emergency)
C	POS Alarm Trigger
Supported Alarm Type	Network Abnormal
	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	Automatically show live video on popup window
	Automatically show live video on live matrix system
	Send SMS
	Send Email
Alarm Viewing Alarm Detail Popup	Filter tools to survey existing alarm history Show / Print a specific alarm with image preview

Function		Description			
Matrix Syste	em				
Live Viewing		Up to 64 concurrent camera viewing			
Grid Type		1, 4, 9, 12+1			
View Type					screen viewing
Automatica	Ily Popup	Show the live			
PTZ Panel		Floating PTZ panel to manipulate cameras on the matrix system			
Joystick Sup	port	Control PTZ camera by Joystick via NCS Client			
Remote Pla	yback System				
Remote Pla	yback	Up to 16 concurrent camera viewing			
Grid Type		1, 4, 9, 16	1 1 1		
Export Fund	tion	Save as image			
Smart Searc	:h	Fast search ba Include Gene object, Lose f	ral motion,	Missing obje	ct, Foreign
Miscellanec	us				
UserGroup Authority		Alarm Management View Alarm Image View Live Video View Recorded Video PTZ Control Control Digital Output Remote Desktop View and Search POS transaction Access Devices			
User Authority Built-in Remote Desktop		User/Password Phone Number Email / Phone number UserGroup Coverage Matrix Profile CMS could control servers through remote desktop			
	.	protocol			
IP Camera Brand(s)	rting Cameras FINE Cisco EverFocus Icantek Lorex Panasonic (PSS) Seorim Y-cam	Arecont Digimerge Eyeview IQinvision Lumenera Pixord Sony Zavio	Atlantis D-Link Vivotek JVC Mobotix Planet Toshiba ACTi	Axis Dynacolor HIKVision LevelOne Moxa Samsung Truen Sanyo	Basler Etrovision Hitron Linksys Panasonic (PCC)
Camera Format	nera				
Supporting Language					
Bulgarian	Chinese (Simplified)	Chinese (Traditional)	Danish	English	Finnish
Italian	Portuguese (Brazil)	Spanish			

▶ Specifications are subjected to change without prior notice.

4/9/16 CHANNEL Stand Alone NVR





Key Features

- H264 & M-JPEG decompression format support.
- Real-time Display & Playback.
- Support Mega Pixel Camera for each channel.
- Support HDMI Video interface (optional).
- Support CMS (Central Management System)/ 3GPP
- Audio Backup / Audio Streaming.
- \blacksquare Graphic User Interface (GUI).
- Support time-search & event-search function under Ethernet remote control mode.
- Up to four online clients for independent remote control; individual live-time, play-back & time-search function available
- Support PPPoE/ Static/ DHCP IP & DDNS
- Powerful mobile surveillance function, support JAVA, blackberry, iPhone & windows mobile

Model		NVR-1204H	NVR-1209H	NVR-1216H		
	Mode		Triplex Max. 9 Channels			
	Display Channel	Max. 4 Channels	Max. 16 Channels			
	Support IP Camera		Up to 1600 v 1200 (2 M pival)			
<i>t</i> : -1	Resolution	Up to 1600 x 1200 (2 M-pixel)				
Video Dis	Display Frame Rate		Up to 30 FPS @ NTSC per CH			
	Split Screen	1, 4	1, 4, 9	1, 4,9,16		
	Video Output (VGA)	Yes				
	Video Output (HDMI)	No Yes (optional)				
Audio Output			Phone Jack x 1			
Audio Back up			Yes			
Audio Streaming	1		Yes			
	Compression Rate	H.264				
Recording	Recording Rate		Up to 30 FPS @ NTSC per CH			
3	Recording Mode		Manual / Schedule / Alarm			
N	Playback Speed		Fast Forward X 2 X 8 X 16 X32			
Playback &	Time Search		Yes			
Search	Event Search		Yes			
	On Screen Display					
	& Setup		Time / Date / Setup Menu			
060 0 6 1 1	Graphic User Interface					
OSD & Control	(GUI)	Yes				
nterface	Mouse		Yes			
	IE Browser		Yes			
	Player		Yes			
	Internal HDD support	S	ATA HDD x 2	SATA HDD x 4		
storage &	External USB Backup	3,	WALLES A Z	37 (I) (TIDD X T		
Backup	device (PAN DRIVE,					
device	HDD, BURNER)	Yes				
	Internal DVD Burner					
	Backup		No			
	Ethernet		Yes (1G)			
	IE Remote Control		Yes			
	DDNS		Yes			
letwork	NTP		Yes			
NETANOLK	E-MAIL & FTP		Yes			
	Network IP		Static/ Dynamic/ PPPoE			
	Multi-Remote Client		Yes (4 Clients at the same time available)			
	Alarm Input		2In	16 ln		
	Alarm Output		2 Out (NO/ NC)	10111		
	Motion Detection					
	Motion Detection Area		Yes Yes			
			res			
Alarm	Motion Detection		1-10			
	Sensitivity Video Loss Detection		Yes			
	Video Loss Detection					
	Alarm Recording		Yes			
	Pre-Alarm Recording		Yes			
	Buzzer		Yes			
	Daylight Saving Time		Yes			
	Watermark		Yes			
	Privacy Masking		Yes			
	PTZ Control		Yes			
	RS-232		No	Yes		
Setup	RS-485		Yes			
	Digital Zoom		Yes			
	Password Control	Tv	o levels, one for system and the other for HDD f	ormat		
	Key-lock		Yes			
	Multi-Language		Yes			
	Firmware Upgrade		USB Host & Update on line			

 $[\]blacktriangleright$ Specifications are subjected to change without prior notice.

POE Power Meter-FPPM-100



PoE Power Meter FPPM-100



FPPM-100 OVERVIEW

FPPM-100 is an on-site test and measurement device for PoE device. It gets rid of the inconvenience method to test PoE function on the test site. Normally, a certified PSE device can work well with the PD if the power specification what PSE can provide fits the power required that the PD needs. However, the test in office or lab may not guarantee the effect in real condition if the PD is located far away from the PSE.

Some unpredictable reason such as the length of cable, the pin location in RJ-45 connector and the quality of network cable may affect the real power available. It needs an on-site PoE measurement device that can exam and test the power status for PD in real condition.

FPPM-100 is a convenient and compact size on-site PoE tester. It verify and tests the maximum power supply from the PSE to PD that it may locate below the roof, above the decorated ceiling, under the ground or even stay under

Powered by replaceable and rechargeable battery is a key feature of FPPM-100 that the technical personnel can take it to test terminal for PD at any locations. Status and digital LED reveal the general and maximum power status from PSE and push terminal block can hold the bare wires of network cable for test before clamping the wire to the RJ-45 connector. Pass or Fail LED indicator informs the technician the result instantly. These test procedures guarantee the power supply to PD device successfully. The FPPM-100 is truly the best assistant tool for installation of PD device.

Key Features

- Measure power status generated from PSE for PD in PoE network.
- Compact portable size for on-site measurement of PoE power status.

 Measure power status for PD without bulky test equipment.

 Able to measure maximum available power (watt) and running voltage.

 Able to measure Mode A and mode B PoE connection.
- Convenient push terminal that can fix the bare wire for test if RJ-45 connector is not clamped.
- Exclude and isolate power problem before really connect power to PD.
- Pass or Fail LED indicator to tell qualify or abnormal power status.
 Replaceable external battery pack for continually measurement of each test site.
 Attachable neck belt that is convenient to hold the device for on-site
- measurement without hand.
- Build-in temperature sensor and LED indicator to inform user overheat condition if high power load test is applied.

BENEFITS

- Do on-site PoE test without carrying bulky test equipment.
- Wear FPPM-100 by attachable neck belt that is easy to work anywhere, such as stand and work at ladder
- Realize the power status of the PoE cable immediately for installation of PD.
- Replaceable battery pack for the same or different technical personnel to work all day long.
- Find the problem of PoE cable wiring before really install the PD
- Check before acceptance of PoE wiring task that is done by third party
- Examine and tune the powered pair of UTP cable before clamping to the RJ-45 connector.
- Examine the maximum power supply to network cable to prevent unsuitable overload PD is attached.
- Save time to debug power problem of PoE equipment installation.
- Quality assurance of power status for PoE equipment installation.

ILLUSTRATION



- Operation Buttons
- 2 Network UTP Port
- Push Terminal Block
- Power Input Port
- External Battery Pack 6 LED Display Window

MAIN APPLICATIONS

- On-site measurement of PoE power status for PD installation
- Examine the power specification of PSE
- Check before acceptance of PoE installation and wiring task
- Assistant tool for PoE application and service provided by ISP / Telecom company

SPECIFICATIONS

Interface

- Top Side: 4 x Push Terminals connectors to fix bare wire
- Front Side: 1 x Network UTP port to measure power status

Status or result is shown by the LED indicators below with different colors.

- PWR / TEST: Power status / Test and system status

 OK / NG: Test result of each test

 WATT / VDC: States of measured power consumption (watt) or voltage.
- Please watch the reading of LED display

 Normal / Alarm: State of measured temperature by reading in LED dis play or the device is overheated.

LED Display Panel

3 digits LED display: Show the measured voltage, watt or temperature inside the device.

Operation Buttons

- Start / Set (–): Start to measure maximum available power (watt) and Voltage. While pressing Start button for more than 3 seconds and "beep" sound heard, Set the minimal power (watt) on the LED by (–) or (+).
- Display / Set (+): Display tested PoE power/VDC or set up minimal power (watt) shown on LED indicator.
 - · Voltage LED state: Current unit is Voltage, readd the voltage value on LED display panel
 - · Watt LED state: Current unit is Watt, read the watt value on LED display panel · Temperature LED state: Current unit is temperature, read the temperature value
- on LED display panel
- External Battery Pack
- · Able to mount external battery pack to FPPM-100 for on-site test without power supply
- USB port of both FPPM-100 and battery pack are all for power supply or charge purpose without data link to PC
- Humidity:
 - Operating: 0% ~ 85% RH
 - Storage: 0% ~ 85% RH
- Dimensions: 95 mm x 76.6 mm x19.6 mm (without battery pack)

Application Diagram



FCV-232E Long Reach Ethernet Extender



FCV-232E



FCV-232E

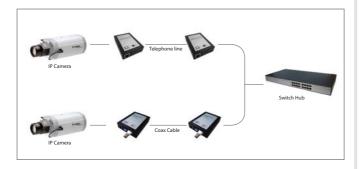
is a Long Reach Ethernet Extender with one Ethernet port (on 1 RJ-45 connector) and one VDSL port on 1 RJ-11 or BNC connector. This is a bridge mode modem accommodating Ethernet and VDSL technologies to extend Ethernet over single-pair phone line by using a VDSL signal. Up to 100/60 Mbps (or 90/90 Mbps with synchronous data rate) transition bandwidth within 300m and 40/10 Mbps for 1km long range connections provides ultra-high performance to the pervasive telephone line network. Its plug-n-play solution minimum installation time & cost by allowing video streaming and data to share the same telephone pair without interference.

With one DIP switches configuration, the FCV-232E including the CO (Central Office) site and CPE (Customer Premise Equipment) site. The long distance support feature makes this extender be a great and ideal solution for FTTx (Fiber to the Building, Fiber to the Campus or Fiber to the Home) applications. It supports high bandwidth VDSL2 over existing telephone wires in the "last mile" from the ISP / Telecom / Service provider's fiber mode to the buildings and customers' home.

Key Features

- 1 full-duplex VDSL links via RJ-11 / BNC connector
- Selectable CO and CPE mode
- Selectable fast and interleaved mode
- Selectable target SNR margin
- Compliant with ETSI, ITU and ANSI standards

Stand Alone DVR



Technical Specifications:				
	IEEE802.3 10Base-T			
	IEEE802.3u 100Base-TX			
	IEEE802.3x Full Duplex			
Standards	ETSI			
	ITU			
	ANSI			
	Full ITU-T G.993.1 (VDSL) compatible			
	G.997.1 compatible.			
Interface	RJ-11 female Phone Jack or BNC for coaxial cable)			
	RJ-45 female Ethernet jack			
Switching Method	Store and Forward			
	1000Mbps port – 1,488,000pps			
Forwarding Rates	100Mbps port - 148,800pps			
	10Mbps port - 14,880pps			
	10BaseT Cat. 3, 4, 5 UTP/STP			
Transmission Media	100BaseTX Cat. 5 UTP/STP			
	1000BaseT Cat. 5E UTP/STP			
	Duplex			
	Speed			
Led Indicators	Link / Act			
	Power			
	Master			
	Link / Negotiation			
Power Input	DC 5V/2A			
Dimensions	102 x 75 x 23 mm (L x W x H)			
Weight	0.28 kg			
Operating Temperature	0 to 45°C			
Storage Temperature	-20 to 90°C			
Humidity	10 to 90% RH (non-condensing)			
Certifications	FCC Class A, CE			

PoE Single Port Injector FPI-100



IEEE 802.3at/af PoE, 10/100/1000Mbps LAN



FPI-100

- Up to 30W of PoE Power Feeding on 2-pairs
- IEEE 802.3at Compliant with 2-event classification
- IEEE 802.3af backward compatible
- Compatible with IEEE 802.3af or Legacy PoE applications
- Safe on Low Power Devices Receive Only the Power They Need
- Safe and Reliable Power to WLAN Access Points
- Automatic Detection and Protection of Non–standard Ethernet Terminals
- Supports 10/100/1000Base-T LAN environment
- Pararell slide-in design to ease the installation

Product Overview

FPI-100GA is a single port, high-power PoE PSE solution for remote PoE PD devices. Generating up to 30W, FPI-100GA supplies remote power for new applications such as wireless Access Points, pan-tilt-zoom (PTZ) IP cameras and video-phones. It complies to IEEE 802.3at PoE standard and backward compatible to IEEE802.3af. It can work with 10/100Base-T networking devices and emerging 1000Base-T devices such as Wi-MAX and wireless IEEE 802.11n access points.

Ordering Information

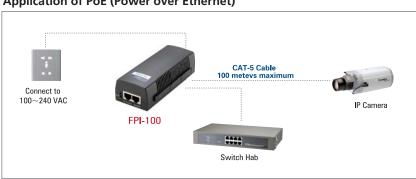
Part Number	Description
FPI-100GA	30W, 802.3at/af, PD detection, GbE, PoE Pln 1/2(+), 3/6(-)
FPI-100A	30W, 802.3at/af, PD detection, FE, PoE PIn 4/5(+), 7/8(-)
FPI-100GF	15.4W, 802.2af, PD detection, GbE, PoE Pln 1/2(+), 3/6(-)
FPI-100F	15.4W, 802.3af, PD detection, FE, PoE Pln 1/2(+), 3/6(-)
FPI-100GH	30W, no PD detection, GbE, PoE Pln 4/5(+), 7/8(-)
FPI-100H	30W, no PD detection, FE, PoE PIn 4/5(+), 7/8(-)
FPI-100G	15.4W, no PD detection, GbE, PoE Pln 4/5(+), 7/8(-)
FPI-100	15.4W, no PD detection, FE, PoE FPIn 4/5(+), 7/8(-)

Specification

- p	
Specifications of FPI-100GA	
No. of PoE PSE Ports	1
Pass Through Data Rates	10/100/1000 Mbps
Power over Ethernet Output	
FPIn Assignment and Polarity	1/2 (+), 3/6 (-) or 4/5(+), 7/8(-)
Output Power Voltage	52 VDC Maximal
User Port Power	30 Watts Maximal
Input Power AC Input Voltage	100 ~ 240 VAC
Requirements AC Input Current	0.8A @ 100-240 VAC
AC Frequency	50 to 60 Hz
Dimensions	87.9 mm x 51.3 mm x 166 mm
Weight	350g
Indicators	System Indicator: AC Power (Green)
Connectors	RJ-45
Environmental Conditions	
Operating Ambient Temperature	-10 to 45°C
Regulatory	IEEE 802.3at/af, RoHS Compliant, CE/FCC
Safety Approvals	EN 60950:2006

Application Diagram

Application of PoE (Power over Ethernet)



FPD-203E: POE Repeater 1 Port POE Splitter(PD) and 1 Port POE Injector(PSE)



FPD-203E



FPD-203E

is 2-port PoE externder (1-port PoE Splitter (PD) and 1-port PoE Injector (PSE)) that is designed for extending distance for another 100M per extender and cascading for longer distances via Cat.5 cable. It is powered by PoE switch or PoE injector without extra power required. Plug and play - It's easy to install into the network environment.

It's a great accessory for you to extend PoE network.

Key Features

- 1 port PoE Splitter (PD) and 1-port PoE injector (PSE)
- Extending distance for another 100M per extender and cascading for longer distances
- IEEE 802.3af PoE standard
- No extra power required
- Metal Case

IEEE 802.3af Power over Ethernet (PoE) ports

FPR100-E features IEEE 802.3af Power over Ethernet (PoE). This product runs over existing LAN cable to power IEEE 802.3af compliant network accessories. It also features PoE awareness to verify whether the network device receive power is IEEE 802.3af compliant, or only the data will be sent through LAN cable. By adding FPR100-E to the existing networking, the installed networking products, such as: Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located or the networking can be extending distance for another 100M per extender and cascading for longer distances.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

	IEEE-802.3af
Standards	IEEE 802.3 10BaseT
	IEEE 802.3u 100BaseTX
Features	Number of Ports: 1 x PoE Splitter and 1x PoE Injector
Filtering/Forwarding	100Mbps port - 148,800pps
Rates	10Mbps port - 14,880pps
Transmission Media	100BaseTX Cat. 5 UTP/STP
Led Indicators	PD: Power (Link)
	PD: Data/Act
	PSE: Link (provide power)
	PSE: Data/Act
Power Output	1 port 48V/DC Output
Dimensions	130 x 77 x 24 mm (L x W x H)
Operating Temperature	0 to 50°C
Storage Temperature	-20 to 90°C
Humidity	10 to 90% RH (non-condensing)
Certifications	FCC Class A, CE

FPD-205E: 5-port POE Repeater: 3 Port 10/100M Fast Ethernet Switch + 1 Port POE Splitter (PD) & 1 Port POE Injector (PSE)



FPD-205E



FPD-205E

is 5-port extender with 3-port 10M/100M Fast Ethernet Switch + 1-port PoE Splitter (PD) and 1-port PoE injector (PSE) that is designed for extending distance for another 100M and cascading for longer distances via Cat.5 cable. It is powered by PoE switch or PoE injector without extra power required. Plug and play - It's easy to install into the network environment. For the small or medium network environment is to strengthen its network connection. This product is compact in size, making it ideal for Desktop users with limited space.

Key Features

- 3-port 10/100M Fast Ethernet Switch + 1- port PoE Splitter (PD) and 1-port PoE injector (PSE)
- Extending distance for another 100M per extender and cascading for longer distances
- IEEE 802.3af PoE standard
- No extra power required
- Auto-MDI/MDI-X
- Auto-Negotiation
- Metal Case

IEEE 802.3af Power over Ethernet (PoE) ports

FPD-205E features IEEE 802.3af Power over Ethernet (PoE). This product runs over existing LAN cable to power IEEE 802.3af compliant network accessories. It also features PoE awareness to verify whether the network device receive power is IEEE 802.3af compliant, or only the data will be sent through LAN cable. By adding FPD-205 to the existing networking, the installed networking products, such as: Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located or the networking can be extending distance for another 100M per extender and cascading for longer distances.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps or 100Mbps and Half/Full-Duplex mode, and adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wire-speed. Every port simultaneously supports up to 200Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

rechnical Specifications:		
Standards	IEEE-802.3af	
	IEEE 802.3 10BaseT	
	IEEE 802.3u 100BaseTX	
	IEEE 802.3x Flow Control	
	Number of Ports: 3 x 10/100BaseTX + 1-port PoE	
	Splitter (PD) + 1-port PoE injector (PSE)	
Features	MAC Address: 1K	
	Buffer Memory: 512K bits	
	Transmission Method: Store and Forward	
Filtering/Forwarding Rates	100Mbps port - 148,800pps	
Tillering/Forwarding Nates	10Mbps port - 14,880pps	
Transmission Media	100BaseTX Cat. 5 UTP/STP	
	PD: Power (Link)	
	PD: Data/Act,	
Led Indicators	3 Port: Link/Act	
	PSE: Data/Act	
	PSE: Link (provide power)	
Power Output	1 port 48V/DC Output	
Dimensions	130 x 77 x 24 mm (L x W x H)	
Operating Temperature	0 to 50°C	
Storage Temperature	-20 to 90°C	
Humidity	10 to 90% RH (non-condensing)	
Certifications	FCC Class A, CE	

FPD-2051E 5 Port 10/100M POE Ethernet Switch with 1 POE Port



FPD-2051E



FPD-2051E

is 5-port 10M/100M with 1 PD/PoE port PoE Ethernet Switch thatis designed for small or medium network environment to strengthen its network connection. This product is compact in size, making it ideal for users with limited space. It is a superb choice for expanding your network.

Key Features

- 5-Port 10/100BaseT(X) with 1 PD/Power over Ethernet Port
- Metal Case with Palm Size
- Auto-MDI/MDI-X
- Auto-Negotiation
- Non-Blocking
- Store and Forward

IEEE 802.3af Power over Ethernet (PoE) port

FPD-2051E features 1 IEEE 802.3af Power over Ethernet (PoE) port to connect to PoE switch. Its port No. 5 can be either Ethernet port or PD/PoE port for DC power input. By adding FPD-2051E to existing networking, user will not compromise to the electrical system.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable to get both power and data where power source is difficult to obtain. It helps you reduce installation time and cost.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps or 100Mbps and Half/Full-Duplex mode, and adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wirespeed. Every port simultaneously supports up to 200Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

reciffical Specifications.		
Standards	IEEE-802.3af	
	IEEE 802.3 10BaseT	
	IEEE 802.3u 100BaseTX	
	IEEE 802.3x Flow Control	
	Number of Ports: 5 10/100BaseT(X) with 1	
	PD/Power over Ethernet Port	
Features	MAC Address: 2K	
	Buffer Memory: 1 Mbits	
	Transmission Method: Store and Forward	
Led Indicators	Per Port: Link/Act	
Led indicators	Per Unit: Power	
Power Supply	90~260V/AC, 50~60Hz	
Power Consumption	2.5 Watts (Max)	
Dimensions	130 x 77 x 24 mm (L x W x H)	
Weight	0.3 kg	
Operating Temperature	0 to 40°C	
Storage Temperature	-20 to 90°C	
Humidity	10 to 90% RH (non-condensing)	
Certifications	FCC Class B, CE	

FPD-2051GE 5 Port 10/100/1000 POE Ethernet Switch With 1 POE Port



FPD-2051GE



FPD-2051GE

is 5-port 10M/100M/1000M with 1 PD/PoE port PoE Ethernet Switch that is designed for small or medium network environment to strengthen its network connection. This product is compact in size, making it ideal for users with limited space. It is a superb choice for expanding your network.

Key Features

- 5-Port 10/100/1000BaseT(X) with 1 PD/Power over Ethernet Port
- Metal Case with Palm Size
- Auto-MDI/MDI-X
- Auto-Negotiation
- Non-Blocking
- Store and Forward

IEEE 802.3af / at Power over Ethernet (PoE) port

FPD-2051GE features 1 IEEE 802.3af / at Power over Ethernet (PoE) port to connect to PoE switch. Its port No. 5 can be either for PoE PD port or Ethernet port for DC power input. By adding FPD-2051GE to existing networking, user will not compromise to the electrical system.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable to get both power and data where power source is difficult to obtain. It helps you reduce installation time and cost.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps, 100Mbps or 1000Mbps and Half/Full-Duplex mode to adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wirespeed. Every port simultaneously supports up to 2000Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

Technical Specifications:		
Standards	IEEE-802.3af / at	
	IEEE 802.3 10BaseT	
	IEEE 802.3u 100BaseTX	
	IEEE 802.3ab 1000BaseT	
	IEEE 802.3x Flow Control	
	Number of Ports: 5 10/100BaseT(X) with 1	
	PD/Power over Ethernet Port	
Features	MAC Address: 1K	
reatures	Buffer Memory: 104 KB	
	Jumbo Frames: 9 KB	
	Transmission Method: Store and Forward	
	1000Mbps port - 1,488,000pps	
Filtering/Forwarding Rates	100Mbps port - 148,800pps	
	10Mbps port - 14,880pps	
Transmission Media	100BaseTX Cat. 5 UTP/STP	
Tansinission weala	1000BaseT Cat. 5E UTP/STP	
Led Indicators	Per Port: Link/Act	
Lea malcators	Per Unit: Power	
Power Supply	DC 5V / 2A	
Power Consumption	10 Watts (Max)	
Dimensions	130 x 77 x 24 mm (L x W x H)	
Weight	0.3 kg	
Operating Temperature	0 to 40°C	
Storage Temperature	-20 to 90°C	
Humidity	10 to 90% RH (non-condensing)	
Certifications	FCC Class A, CE	

FPD-2081E 8 Port 10/100M POE Ethernet Switch With 1 POE Port



FPD-2081E



FPD-2081E

is 8-port 10M/100M with 1 PD/PoE port PoE Ethernet Switch that is designed for small or medium network environment to strengthen its network connection. This product is compact in size, making it ideal for users with limited space. It is a superb choice for expanding your network.

Key Features

- 8-Port 10/100BaseT(X) with 1 PD/Power over Ethernet Port
- Metal Case with Palm Size
- Auto-MDI/MDI-X
- Auto-Negotiation
- Non-Blocking
- Store and Forward

IEEE 802.3af Power over Ethernet (PoE) port

FPD-2081E features 1 IEEE 802.3af Power over Ethernet (PoE) port to connect to PoE switch. Its port No. 8 can be either Ethernet port or PD/PoE port for DC power input. By adding FPD-2081E to existing networking, user will not compromise to the electrical system.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable to get both power and data where power source is difficult to obtain. It helps you reduce installation time and cost.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps or 100Mbps and Half/Full-Duplex mode, and adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wirespeed. Every port simultaneously supports up to 200Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

IEEE-802.3af
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3x Flow Control
Number of Ports: 8 10/100BaseT(X) with 1
PD/Power over Ethernet Port
MAC Address: 1K
Buffer Memory: 512 Kb
Transmission Method: Store and Forward
Per Port: Link/Act
Per Unit: Power
DC 7.5V/0.8A
6 Watts (Max)
130 x 77 x 24 mm (L x W x H)
0.35 kg
0 to 40°C
-20 to 90°C
10 to 90% RH (non-condensing)
FCC Class A, CE

FPD-2081GE 8 Port 10/100/1000M POE Ethernet Switch With 1 POE Port



FPD-2081GE



FPD-2081GE

is 8-port 10M/100M/1000M with 1 PD/PoE port PoE Gigabit Ethernet Switch that is designed for small or medium network environment to strengthen its network connection. This product is compact in size, making it ideal for users with limited space. It is a superb choice for expanding your network.

Key Features

- 8-Port 10/100/1000BaseT(X) with 1 PD/Power over Ethernet Port
- Metal Case with Palm Size
- Auto-MDI/MDI-X
- Auto-Negotiation
- Non-Blocking
- Store and Forward

IEEE 802.3af / IEEE 802.3at Power over Ethernet (PoE) port

FPD-2081GE features 1 IEEE 802.3af / at Power over Ethernet (PoE) port to connect to PoE switch. Its port No. 8 can be either for PoE PD port or Ethernet port for DC power input. By adding FPD-2081GE to existing networking, user will not compromise to the electrical system.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable to get both power and data where power source is difficult to obtain. It helps you reduce installation time and cost.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps, 100Mbps or 1000Mbps and Half/Full-Duplex mode to adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wirespeed. Every port simultaneously supports up to 2000Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

Technical Specifications:		
Standards	IEEE 802.3af / at	
	IEEE 802.3 10BaseT	
	IEEE 802.3u 100BaseTX	
	IEEE 802.3ab 1000BaseT	
	IEEE 802.3x Flow Control	
	Number of Ports: 8 10/100BaseT(X) with 1	
	PD/Power over Ethernet Port	
Features	MAC Address: 4K	
i eatures	Buffer Memory: 128 KB	
	Jumbo Frames: 9 KB	
	Transmission Method: Store and Forward	
	1000Mbps port - 1,488,000pps	
Filtering/Forwarding Rates	100Mbps port - 148,800pps	
	10Mbps port - 14,880pps	
Transmission Media	100BaseTX Cat. 5 UTP/STP	
Transmission Wedia	1000BaseT Cat. 5E UTP/STP	
Led Indicators	Per Port: Link/Act	
Lea maicators	Per Unit: Power	
Power Supply	DC 5V/ 2A	
Power Consumption	10 Watts (Max)	
Dimensions	130 x 77 x 24 mm (L x W x H)	
Weight	0.35 kg	
Operating Temperature	0 to 40°C	
Storage Temperature	-20 to 90°C	
Humidity	10 to 90% RH (non-condensing)	
Certifications	FCC Class A, CE	

POE Switches-FPR102



FPR102 2-port PoE Repeater



FPR-102

FPR102 is a 2-poprt Power-over-Ethernet (PoE) Repeater providing a 100/100Mbps Ethernet transmission for 100m distance and with 2 Ethernet switch ports extending individually another 100m with power over Ethernet capability. It forwards both Ethernet and PoE for another 330ft (100m) using an innovative power-processing scheme and multiple units can be deployed in series for even longer distances, with no degradation in network speed or latency. FPR102 itself is powered by an Ethernet PoE switch (or PoE injector) and so requires no separate power connection in the middle of the cable, making it extremely easy to connect and power IP cameras two or three times further than previously possible without going to fiber or installing midspan power sources.

In the simplest application, a FPR102 allows to connect two PoE Devices (PDs) located 200 meters away from the POE switch. The switch delivers PoE power over the first 100 meters of Cat5 cable to the FPR102, and the FPR102 restores the Ethernet signal and forwards remaining POE power to the PDs 100m away. The FPR102 requires no local power supply, and the FPR102 presents no restriction to the Ethernet network connection. Typically, the PoE switch would be confined to a centrally located equipment room, and would connect to several PDs distributed about the site. With FPR102, each PD may have its own dedicated connection to the switch, and power cable installation to remote switches would not be required.

Advantages

- Extends Ethernet cable installations for another 100 meters
- 2-Port Ethernet Power Sourcing Equipment (PSE)
- No power cable installation required
- Fully Ethernet protocol transparent no restrictions to network traffic
- 100Mbps Ethernet Wire Speed
- Compatible with IEEE 802.3af PoE standard
- IP66 Weather-Proof for FPR102-ODU outdoor unit
- Simple to install Plug & Play

PoE Repeater Specifications

Ethernet Interface

- IEEE 802.3x, Auto-Detection for 10/100BaseT and full/half duplex
- Automatic MDIX function
- PoE Input Port: RJ-45 Connector x 1
- PoE Output Port: RJ-45 Connector x 2
- Port-based VLAN function for LAN ports

Power

- IEEE 802.3af Compliant with voltage within 44-57Volt
- Maximum Power Dissipation: 2.5 Watts

LED Indicators

■ POWER: Power is ON

■ I POE IN: Data Activity of POE in Port

■ POE OUT1: Data Activity of POE Out1 Port

■ POE OUT2: Data Activity of POE Out2 Port

Regulations & Approval

- FCC Rules Part 15
- ICE

Physical Dimension

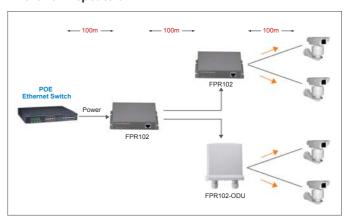
■ FPR102 WxDxH: 120 x 90 x 28 (mm)
■ FPR102-ODU WxDxH: 180 x 165 x 95 (mm)

Operating Environment:

- Humidity: 5% to 95% non-condensing
- Temperature: 0 ~ 50 degree C

Application Diagram

2-Port PoE Repeaters



FPS-7008E 8 Port Rack-Mount POE Mid-Span Injector



FPS-7008E



FPS-7008E

is 8-pair Port Rack-mount Power over Ethernet Mid-span Power Supply that is designed to help simplify network maintenance and for small or medium network environment to strengthen its network connection. Including rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

Key Features

- 8 port 10/100/1000BaseT(X) Data-In Ports + 8 10/100BaseT(X) Data and Power-Out Ports
- 19" Rack-Mount Size
- Internal Power Supply

IEEE 802.3af Power over Ethernet (PoE) ports

FPS-7008E features 8 10/100BaseT(X) Data-In ports and 8 IEEE 802.3af Power over Ethernet (PoE) ports supplying up to 15.4 watts per port. This product can convert standard 90~260V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3af compliant network accessories. It also features PoE awareness to verify whether the network device receive power is IEEE 802.3af compliant, or only the data will be sent through LAN cable. By adding FPS-7008E to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

Standards	IEEE-802.3af
	Number of Ports:
Features	8 10/100BaseT(X) Data-In Ports
	8 10/100BaseT(X) Data and Power-Out Ports
Led Indicators	Per Port: PoE Act/Status
Lea maicators	Per Unit: Power
Power Input	90~260V/AC, 50~60Hz
Douges Output	48V/DC Per Port Output – 15.4 W Max Per Port
Power Output	8 Ports at Full 15.4 W Output Supported
Power Consumption	130 Watts (Max)
Dimensions	440 x 220 x 44 mm (L x W x H)
Weight	2.7 kg
Operating Temperature	0 to 40°C
Storage Temperature	-20 to 90°C
Humidity	10 to 90% RH (non-condensing)
Certifications	FCC Class A, CE

FPS-7008GE 8 Port Rack-mount POE Mid-span Injector



FPS-7008GE



FPS-7008GE

is 8-pair Port Rack-mount Power over Ethernet Mid-span Power Supply that is designed to help simplify network maintenance and for small or medium network environment to strengthen its network connection. Including rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

Key Features

- \blacksquare 8 port 10/100/1000BaseT(X) Data-In Ports + 8 10/100BaseT(X) Data and Power-Out Ports
- 19" Rack-Mount Size
- Internal Power Supply

IEEE 802.3af Power over Ethernet (PoE) ports

FPS-7008GE features 8 10/100/1000BaseT Data-In ports and 8 IEEE 802.3af Power over Ethernet (PoE) ports supplying up to 15.4 watts per port. This product can convert standard 100~240V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3af compliant network accessories. It also features PoE awareness to verify whether the network device receive power is IEEE 802.3af compliant, or only the data will be sent through LAN cable. By adding FPS-7008GE to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

Standards	IEEE-802.3af
Features	Number of Ports:
	8 10/100/1000BaseT Data-In Ports
	8 10/100/1000BaseT Data and Power-Out Ports
Led Indicators	Per Port: PoE Act/Status
	Per Unit: Power
Power Input	100~240V/AC, 50~60Hz
Power Output	48V/DC Per Port Output – 15.4 W Max Per Port
	8 Ports at Full 15.4 W Output Supported
Power Consumption	130 Watts (Max)
Dimensions	440 x 220 x 44 mm (L x W x H)
Weight	2.7 kg
Operating Temperature	0 to 40°C
Storage Temperature	-20 to 90°C
Humidity	10 to 90% RH (non-condensing)
Certifications	FCC Class A, CE

FPS-7016E 16 Port Rack-mount POE Mid-span Injector



FPS-7016E



FPS-7016E

is 16-pair Port Rack-mount Power over Ethernet Mid-span Power Supply that is designed to help simplify network maintenance and for small or medium network environment to strengthen its network connection. Including rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

Key Features

- 16 10/100BaseT(X) Data-In Ports + 16 10/100BaseT(X) Data and Power-Out Ports
- 19" Rack-Mount Size
- Internal Power Supply

IEEE 802.3af Power over Ethernet (PoE) ports

FPS-7016E features 16 port 10/100BaseT(X) Data-In ports and 16 IEEE 802.3af Power over Ethernet (PoE) ports supplying up to 15.4 watts per port. This product can convert standard 90~260V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3af compliant network accessories. It also features PoE awareness to verify whether the network device receive power is IEEE 802.3af compliant, or only the data will be sent through LAN cable. By adding FPS-7016E to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

Standards	IEEE-802.3af
	Number of Ports:
Features	16 10/100BaseT(X) Data-In Ports
	16 10/100BaseT(X) Data and Power-Out Ports
Led Indicators	Per Port: PoE Act/Status
Lea maicators	Per Unit: Power
Power Input	90~260V/AC, 50~60Hz
Power Output	48V/DC Per Port Output – 15.4 W Max Per Port
Power Output	16 Ports at Full 15.4 W Output Supported
Power Consumption	260 Watts (Max)
Dimensions	440 x 220 x 44 mm (L x W x H)
Weight	3.2 kg
Operating Temperature	0 to 40°C
Storage Temperature	-20 to 90°C
Humidity	10 to 90% RH (non-condensing)
Certifications	FCC Class A, CE

FPS-201G 1 Port Gigabyte IEEE802.3at POE Injector



FPS-201G



FPS-201G

is 1 Ethernet Input (data only) port and 1 Output (data + power) port Power over Ethernet Injector that is designed for small or medium network environment to strengthen its network connection. This product can convert standard power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3at compliant network accessories. It also features PoE awareness to verify whether the network device receive power is IEEE 802.3at compliant, or only the data will be sent through LAN cable. By adding FPS-201G to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

Key Features

- 1 Ethernet Input Port (Data Only) + 1 Ethernet Output Port (Data + Power)
- Compliant with IEEE 802.3at/af
- Smart Plug and Play

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable to deliver both power and data where power source is difficult to obtain. It helps you reduce installation time and cost.

High Power PSE Power Injector

FPS-201G is a high power, PSE Power Injector for use in Power over Ethernet systems. The internal current limit and short-circuit protection are designed to provide up to 30W of PSE output power for power hungry PoE applications such as WAPs, security cameras and RFID readers.

real mean operationer.		
	IEEE 802.3af	
	IEEE-802.3at	
Standards	IEEE 802.3 10BaseT	
	IEEE 802.3u 100BaseTX	
	IEEE 802.3ab 1000BaseT	
	Number of Ports:	
Features	1 x Input (data only) Port	
	1 x Output (data + power) Port	
Led Indicators	Per Port: PoE Act/Status	
	Per Unit: Power	
Power Input	48V/DC	
Power Output	48V/DC at Full 25~30 W Output Supported	
Power Consumption	35 Watts (Max)	
Dimensions	102 x 75 x 23 mm (L x W x H)	
Weight	0.28 kg	
Operating Temperature	0 to 40°C	
Storage Temperature	-20 to 85°C	
Humidity	10 to 90% RH (non-condensing)	
Certifications	FCC Class B, CE	

POE Splitter-FPS-103E



802.3af PoE Splitter FPS-103E 5/9/12V output



FPS-103E

- 5v, 9v, 12v output adjustable IEEE802.3af compliance
- Short circuit protection
- Plug-and-Play
- Delivering power and data to power device
- Light weight and compact size
- For Wireless AP, Bluetooth AP, IP Camera, IP Phone, remote power feeding application
- Regulated output voltage by switch

Specification

Standard	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX IEEE802.3af Power over Ethernet		
Forwarding rate	10Mbps port – 14880pps, 100Mbps port – 148800pps		
Connector	Data in: 1 x RJ-45 Data pin 1,2,3,6 Power pin: 4,5(V+), 7,8(V-) or 1,2(V+), 3,6(V-) Data out: 1 x RJ-45, Data pin 1,2,3,6 Power output: 5V, 9V, 12V (Selectable) Power plug dimension: 5.5(OD) x 2.1(ID) x 10mm		
Input range	DC 36~48V, 350mA max.		
Output range	Total 12.9W, 5/9/12V (Max. 5%, typical 2% voltage accuracy)		
Adjust Switch	3-Segment switch for output voltage selection 5/9/12V		
LEDs	(green) 5/9/12V		
Operating environment	0°C~45°C		
Operating Humidity	10%~90% RH (non-condensing)		
Storage Temperature	-20°C~70°C		
Dimension	81mm x 55mm x 28mm (W x D x H)		
Weight	45 g		
Certificate	FCC Class A, CE		

Application Diagram

Application of PoE (Power over Ethernet)



802.3af /at Compliant, Gigabit PoE Splitter FPS-103AG Series

802.3af/at Compliant, Gigabit FPS-103AG series



FPS-103 Characteristics

- Network devices at Gigabit speeds all within a compact device
- Automatically detects PoE terminals and supplies inline power
- Easily install non-PoE devices where a power outlet is not available
- Reduce installation and network equipment costs
- Safeguards network device with short circuit protection
- Adjustable output DIP switch for 5V, 9V, and 12V adjustable output
 Converts Non-PoE devices with Power Over Ethernet Support
- Auto-sensing power drawn from 802.3af / 802.3at power source equipment(PSE) devices
- Supplies power up to 12 -25 watts
- Light weight and compact size
- 1-Year Warranty

Product Overview

The Gigabit Power over Ethernet Splitter FPS-103AG splits a networked PoE signal into separated power and Gigabit data sources. This device allows administrators to run Gigabit speed PoE cables over long distances and then split the PoE signal into separated data and power sources in order to network non-PoE devices.

Save installation and equipment cost when installing access points, IP cameras and more in remote locations. No need to install network devices near a power outlet. This compact device safeguards valuable network equipment with short circuit protection and quickly creates an integrated PoE and non PoE network at Gigabit speeds.

Ordering Information

Part Number	Description
FPS-103E	10/100M FE, IEEE802.3af
FPS-103EG	10/100/1000M GbE, IEEE802.3af
FPS-103AG	10/100/1000M GbE, IEEE802.3at (25W)

Specifications

Specifications	
Specifications	
Data Rate	10/100/1000 Mbps
Input Power Requirement	1/2(+), 3/6 (-) or 4/5(+), 7/8(-)
Input Power Voltage	FPS-103E/EG: 48Vdc/0.3A, FPS-103AG: 48Vdc/0.6A
Output Power	FPS-103E/EG: 5V(2A),9V(1.1A),12V(1A) FPS-103AG: 5V(3A),9V(2.3A),12V(2A)
Jumper Cable	DC 2.1x 5.5x 9.5mm, (L-300mm) or DC 5.5*2.5*12 mm (White) / 5.5*2.1*12 mm (Blue) / 4.8*1.7*12 mm (Yellow) / 3.5*1.3*12(Red)mm, (L-300mm)
Dimensions	80 mm x 55 mm x 31 mm
Weight	76g
Diagnostic LEDs	DC Power (Green)
Connectors	Shielded RJ-45
Environmental Conditions	
Operating Ambient Temperature	-10 to 45°C
Regulatory	IEEE 802.3at/802.3af, RoHS Compliance
Safety Approvals	EN 60950: 2006, CE/FCC

FPS-254E 5 Port 10/100M POE Ethernet Switch With 4 Port POE



FPS-254E



FPS-254E

is 5-port 10M/100M with 4 PSE/PoE ports Desktop PoE Fast Ethernet Switch that is designed for small network environment to strengthen its network connection. It's also specially designed for video surveillance in buses, trains, subway cars and emergency vehicles. This product is compact in size, making it ideal for every user with limited space.

Key Features

- 5-Port 10/100BaseT(X) with 4 PSE/Power over Ethernet Ports
- Complaint with IEEE 802.3 af/at
- Metal Case with Palm Size
- Auto-MDI/MDI-X
- Auto-Negotiation
- External Power Supply

IEEE 802.3at Power over Ethernet (PoE) ports

FPS-254E features 8-port PoE IEEE 802.3 af/at supplying up to 30 watts per port. This product can convert standard 12-24V/DC and 48V/DC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3at compliant network accessories. It also features high power awareness to verify whether the network device receive power is IEEE 802.3at compliant, or only the data will be sent through LAN cable. By adding FPS-254E to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps or 100Mbps and Half/Full-Duplex mode, and adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wirespeed. Every port simultaneously supports up to 200Mbps of bandwidth in fullduplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

Technical Specifications:

Technical Specifications:				
	IEEE-802.3af/at			
Standards	IEEE 802.3 10BaseT			
	IEEE 802.3u 100BaseTX			
	IEEE 802.3x Flow Control			
	Number of Ports: 5 10/100BaseT(X) with 4			
	PSE/Power over Ethernet Ports			
Features	MAC Address: 1K			
	Buffer Memory: 512K bits			
	Transmission Method: Store and Forward			
Filtering/Forwarding Rates	100Mbps port - 148,800pps			
Thermight of warding nates	10Mbps port - 14,880pps			
Transmission Media	10BaseT Cat. 3, 4, 5 UTP/STP			
Transmission media	100BaseTX Cat. 5 UTP/STP			
Led Indicators	Per Port: Link/Act, PoE Act/Status			
Lea marcators	Per Unit: Power			
Power Input	48V / DC			
Power Output	48V / DC			
Power Consumption	40 Watts (Max)			
Dimensions	130 x 97 x 24 mm (L x W x H)			
Weight	1.3 kg			
Operating Temperature	0 to 40°C			
Storage Temperature	-20 to 90°C			
Humidity	10 to 90% RH (non-condensing)			
Certifications	FCC Class A, CE			

FPS-804E / FPS-804ME 8-port 10M/100M POE Ethernet Switch With 4 POE Ports Desktop



FPS-804E / FPS-804ME



FPS-804E/ME

is 8-port 10M/100M with 4 PSE/PoE ports Desktop PoE Fast Ethernet Switch that is designed for small or medium network environment to strengthen its network connection. This product is compact in size, making it ideal for Desktop users with limited space. It also gives you the option of installing it in a 19" cabinet by rack-mount kits or underneath a desk.

Key Features

- 8-Port 10/100BaseT(X) with 4 PSE/Power over Ethernet Ports
- 11" Metal Case
- Auto-MDI/MDI-X
- Auto-Negotiation
- Web-based configuration & management
- Rack-Mount to 19" Cabinet
- Internal Power Supply

IEEE 802.3af Power over Ethernet (PoE) ports

FPS-804E/ME features 4 IEEE 802.3af Power over Ethernet (PoE) ports supplying up to 15.4 watts per port. This product can convert standard 90~260V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3af compliant network accessories. It also features PoE awareness to verify whether the network device receive power is IEEE 802.3af compliant, or only the data will be sent through LAN cable. By adding FPS-804E/ME to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps or 100Mbps and Half/Full-Duplex mode, and adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wirespeed. Every port simultaneously supports up to 200Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

Technical Specifications:

Standards	IEEE-802.3af	
	IEEE 802.3 10BaseT	
Stanuarus	IEEE 802.3u 100BaseTX	
	IEEE 802.3x Flow Control	
	Number of Ports: 8 10/100BaseT(X) with	
	4 PSE/Power over Ethernet Ports	
Factoria	MAC Address: 1K	
Features	Buffer Memory: 512K bits	
	Transmission Method: Store and Forward	
	Switch Capacity: 1.6Gbps	
Filtering/Forwarding Potes	100Mbps port - 148,800pps	
Filtering/Forwarding Rates	10Mbps port - 14,880pps	
Transmission Media	10BaseT Cat. 3, 4, 5 UTP/STP	
Iransmission iviedia	100BaseTX Cat. 5 UTP/STP	
Led Indicators	Per Port: Link/Act, PoE Act/Status	
Lea maicators	Per Unit: Power	
Power Input	100~240V/AC, 50~60Hz	
Power Output	48V/DC Per Port Output – 15.4 W Max Per Port	
Tower Output	4 Ports at Full 15.4 W Output Supported	
Power Consumption	65 Watts (Max)	
Dimensions	266 x 160 x 44 mm (L x W x H)	
Weight	1.3 kg	
Operating Temperature	0 to 50°C	
Storage Temperature	-20 to 90°C	
Humidity	10 to 90% RH (non-condensing)	
Certifications	FCC Class A, CE	

Model	POE Ports	LAN Ports	Web Managed
FPS-804E	4	8	N/A
FPS-804ME	4	8	Yes

FPS-808E / FPS-808ME : 8-port 10M/100M Desktop PoE Fast Ethernet Switch



FPS-808E / FPS-808ME



FPS-808E / ME

is 8-port 10M/100M Desktop PoE Fast Ethernet Switch that is designed for small or medium network environment to strengthen its network connection. This product is compact in size, making it ideal for Desktop users with limited space. It also gives you the option of installing it in a 19" cabinet by rack-mount kits or underneath a desk.

Key Features

- 8 PSE/Power over Ethernet Ports
- 11" Metal Case
- Rack-Mount to 19" Cabinet
- Web-based configuration & management
- Auto-MDI / MDI-X
- Auto-Negotiation
- Non-Blocking
- Internal Power Supply

IEEE 802.3af Power over Ethernet (PoE) ports

FPS-808E/ME features 8 IEEE 802.3af Power over Ethernet (PoE) ports supplying up to 15.4 watts per port. This product can convert standard 90~260V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3af compliant network accessories. It also features PoE awareness to verify whether the network device receive power is IEEE 802.3af compliant, or only the data will be sent through LAN cable. By adding FPS-808E/ME to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps or 100Mbps and Half/Full-Duplex mode, and adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wirespeed. Every port simultaneously supports up to 200Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

Technical Specifications:

recriffical Specifications.			
	IEEE 802.3af		
Standards	IEEE 802.3 10BaseT		
Standards	IEEE 802.3u 100BaseTX		
	IEEE 802.3x Flow Control		
	Number of Ports: 8 PSE/Power over Ethernet Ports		
	MAC Address: 1K		
Features	Buffer Memory: 512K bits		
	Transmission Method: Store and Forward		
	Switch Capacity: 1.6Gbps		
Filtering/Forwarding Rates	100Mbps port - 148,800pps		
Thermg/Torwarding nates	10Mbps port - 14,880pps		
Transmission Media	10BaseT Cat. 3, 4, 5 UTP/STP		
ITATISTIISSIOTI Media	100BaseTX Cat. 5 UTP/STP		
Led Indicators	Per Port: Link/Act, PoE Act/Status		
Lea indicators	Per Unit: Power		
Power Input	100~240V/AC, 50~60Hz		
Power Output	48V/DC Per Port Output – 15.4 W Max Per Port		
Tower Output	8 Ports at Full 15.4 W Output Supported		
Power Consumption	130 Watts (Max)		
Dimensions	266 x 160 x 44 mm (L x W x H)		
Weight	1.4 kg		
Operating Temperature	0 to 50°C		
Storage Temperature	-20 to 90°C		
Humidity	10 to 90% RH (non-condensing)		
Certifications	FCC Class A, CE		

Model	POE Ports	LAN Ports	Web Managed
FPS-808E	8	8	N/A
FPS-808ME	8	8	Yes

FPS-1608E / FPS-1608ME 16-port 10M/100M Rack-Mount With 8 Port Fast Ethernet Switch



FPS-1608E / FPS-1608ME



FPS-1608E / ME

is 16-port 10M/100M With 8-port PSE/PoE Rack-mount PoE Fast Ethernet Switch that is designed for medium or large network environment to strengthen its network connection. Including rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

Key Features

- \blacksquare 16-Port 10/100BaseT(X) with 8 PSE / Power over Ethernet Ports
- 19" Industrial Size
- Web-based configuration & management
- Auto-MDI/MDI-X
- Auto-Negotiation
- Non-Blocking
- Internal Power Supply

IEEE 802.3af Power over Ethernet (PoE) ports

FPS-1608E/ME features 8 IEEE 802.3af Power over Ethernet (PoE) ports supplying up to 15.4 watts per port. This product can convert standard 90~260V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3af compliant network accessories. It also features PoE awareness to verify whether the network device receive power is IEEE 802.3af compliant, or only the data will be sent through LAN cable. By adding FPS-1608E/ME to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps or 100Mbps and Half/Full-Duplex mode, and adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wire-speed. Every port simultaneously supports up to 200Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

Technical Specifications:

rechinical Specifications.				
Standards	IEEE 802.3af Power over Ethernet IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100BaseTX Fast Ethernet ANSI / IEEE 802.3 NWay auto-negotiation IEEE 802.3x Flow Control in full duplex Collision / Carrier sense based backpressure in half duplex			
Features	Number of Ports: 16 10/100BaseT/T(X) (8 PoE Ports, 8 non-PoE ports) MAC Address: 4K Buffer Memory: 1.5 Mb Transmission Method: Store and Forward Switch Capacity: 3.2Gbps			
Filtering/Forwarding Rates	100Mbps port - 148,800pps 10Mbps port - 14,880pps			
Transmission Media	10BaseT Cat. 3, 4, 5 UTP/STP 100BaseTX Cat. 5 UTP/STP			
LED Indicators	Per Port: Link/Act, PoE Act/Status Per Unit: Power			
Power Input	100~240V/AC, 50~60Hz			
Power Output	48V/DC Per Port Output – 15.4 W Max Per Port 8 Ports at Full 15.4 W Output Supported			
Power Consumption	130 Watts (Max)			
Dimensions	440 x 220 x 44 mm (L x W x H)			
Weight	3.8 kg			
Operating Temperature	0 to 50°C			
Storage Temperature	-20 to 90°C			
Humidity	10 to 90% RH (non-condensing)			
Certifications	FCC Class A, CE			

Model	POE Ports	LAN Ports	Web Managed
FPS-1608E	8	16	N/A
FPS-1608ME	8	16	Yes

FPS-1616E / FPS-1616ME 16-port 10M/100M Rack-Mount POE Fast Ethernet Switch



FPS-1616E / FPS-1616ME



FPS-1616E / ME

is 16-port 10M/100M Rack-mount PoE Fast Ethernet Switch that is designed for medium or large network environment to strengthen its network connection. Including rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

Key Features

- 16 PSE/Power over Ethernet Ports
- 19" Industrial Size
- Auto-MDI/MDI-X
- Auto-Negotiation
- Web-based configuration & management
- Non-Blocking
- Internal Power Supply

IEEE 802.3af Power over Ethernet (PoE) ports

FPS-1616E/ME features 16 IEEE 802.3af Power over Ethernet (PoE) ports supplying up to 15.4 watts per port. This product can convert standard 90~260V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3af compliant network accessories. It also features PoE awareness to verify whether the network device receive power is IEEE 802.3af compliant, or only the data will be sent through LAN cable. By adding FPS-1616E/ME to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat-5 Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps or 100Mbps and Half/Full-Duplex mode, and adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wirespeed. Every port simultaneously supports up to 200Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

Technical Specifications:

recrifical specifications.			
Standards	IEEE 802.3af		
	IEEE 802.3 10BaseT		
	IEEE 802.3u 100BaseTX		
	IEEE 802.3x Flow Control		
	Number of Ports: 16 PSE/Power over Ethernet Ports		
	MAC Address: 4K		
Features	Buffer Memory: 1.625 Mb		
	Transmission Method: Store and Forward		
	Switch Capacity: 3.2Gbps		
Filtering/Forwarding Rates	100Mbps port - 148,800pps		
Three magnetic states	10Mbps port - 14,880pps		
Transmission Media	10BaseT Cat. 3, 4, 5 UTP/STP		
ITALISTIISSIOTI Media	100BaseTX Cat. 5 UTP/STP		
Led Indicators	Per Port: Link/Act, PoE Act/Status		
Lea marcators	Per Unit: Power		
Power Input	100~240V/AC, 50~60Hz		
Power Output	48V/DC Per Port Output – 15.4 W Max Per Port		
	16 Ports at Full 15.4 W Output Supported		
Power Consumption	260 Watts (Max)		
Dimensions	440 x 220 x 44 mm (L x W x H)		
Weight	3.8 kg		
Operating Temperature	0 to 50°C		
Storage Temperature	-20 to 90°C		
Humidity	10 to 90% RH (non-condensing)		
Certifications	FCC Class A, CE		

Model	POE Ports	LAN Ports	Web Managed
FPS-1616E	16	16	N/A
FPS-1616ME	16	16	Yes

FPS-7882E / FPS-7882ME 8 Port 10M/100M Rack-Mount Switch Hub



FPS-7882E / FPS-7882ME



FPS-7882E / ME

is 8-port 10M/100M PoE + ports and 2 Combo Gigabit UTP/SFP open slot PoE Web Smart Fast Ethernet Switch that is designed for medium or large network environment to strengthen its network connection. Including rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

Key Features

- 8-port 10/100M PSE PoE + (PoE ON/OFF Function) and 2 Combo Gigabit UTP port/SFP
- Web-based Configuration and Management
- 19" Rack-Mount
- Auto-MDI/MDI-X
- Auto-Negotiation
- Non-Blocking
- Internal Power Supply

IEEE 802.3at Power over Ethernet (PoE) ports

FPS-7882E/ME features 8-port PoE IEEE 802.3at supplying up to 30 watts per port. This product can convert standard 110~240V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3at compliant network accessories. By adding FPS-7882E/ME to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat.5/Cat.5e Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

Exceptionally Smart

FPS-7882 PoE Web Smart Fast Ethernet Switch features management ports that can be managed through Web Browser and provides Smart features that are ideal for simple QoS/CoS applications and basic monitoring tools to improve network efficiency. Its security and management features such as bandwidth control, and VLAN to secure your network. Through a Web-based interface, an administrator can set up VLANs to segregate traffic, QoS to prioritize mission-critical data and link aggregation to create high bandwidth. All of these features offer extra protection on the network edge. Best of all, the password-protected configuration interface can be accessed remotely.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps/100Mbps/1000Mbps and Half/Full-Duplex mode, and adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wirespeed. Every port simultaneously supports up to 200Mbps/2000Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

Model	POE Ports	LAN Ports	Web Managed
FPS-7882E	8	8	N/A
FPS-7882ME	8	8	Yes

Technical Specifications:				
Standards	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3z 1000BaseX IEEE 802.3x Flow Control IEEE 802.3ad Trunk (Link Aggegation) IEEE 802.3at PoE IEEE 802.1q VLAN (Port Based and Tag Based) IEEE 802.1p Class of Service, Priority Protocols IEEE 802.1x Port Security IEEE 802.1d Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol			
Features	Number of Ports: 8-port PoE+ MAC Address: 4K Buffer Memory: 2.75M bits Transmission Method: Store and Forward Switch Capacity: 1.6Gbps			
Smart Features	Port VLAN: 8 Tagged VLAN: 4094 Trunk Groups: 2 (1~4 port for each group) Quality of Service: up to 4 queues POE function ON/OFF Remote Control STP/RSTP (Spanning Tree Protocol and Rapid Spanning Tree Protocol) MAC Filtering IGMP Snooping Management: Broadcast Strom Control, Bandwidth Control, Port Mirroring, Password-protected Access, Port Settings, Web-base Management, Graphic User Interfaceetc.			
Transmission Media	10BaseT Cat. 3, 4, 5 UTP/STP 100BaseTX Cat. 5 UTP/STP 1000BaseT Cat. 5e UTP/STP			
Led Indicators	Per Port: Link/Act, PoE Act/Status Per Unit: Power			
Power Input	100~240V/AC, 50~60Hz			
Power Output	48V/DC Per Port Output – 8 Ports at Full 30 W Output Supported per port			
Supply Power up to	130/260 Watts (Max)			
Dimensions	440 x 220 x 44 mm (L x W x H)			
Weight	2.7 kg			
Operating Temperature	0 to 40°C			
Storage Temperature	-20 to 90°C			
Humidity	10 to 90% RH (non-condensing)			
Certifications	FCC Class A, CE			

FPS-7082E / FPS-7082ME 8 port 10M/100M/1000M Rack-Mount Gigabyte Ethernet Switch Hub



FPS-7082E / FPS-7082ME



FPS-7082E / ME

is a 8-port 10/100/1000M PoE+ with 2 SFP Gigabit Web- Managed Ethernet Switch that is designed for medium or large network environment to strengthen its network connection. Including rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

Key Features

- 8-Port 10/100/1000M IEEE 802.3 at PSE, 2 SFP Open Slots (POE ON/OFF Function)
- 19" Rack-Mount Metal Case
- IEEE 802.1Q VLAN Tagging
- 802.1p Priority Queues
- Jumbo Frames and IGMP Snooping Support
- Link Aggregation and Rapid Spanning Tree
- Internal Power Supply

IEEE 802.3at Power over Ethernet (PoE) ports

FPS-7082E/ME features 8-port PoE+ IEEE 802.3at supplying up to 30 watts per port. This product can convert standard 100~240V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3at compliant network accessories. By adding FPS-7082E/ME to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

High-Speed Networking and Jumbo Frames Support

FPS-7082 provides an excellent solution for expanding your Gigabit network. By Gigabit speed, this product provides high flexibility and high bandwidth connectivity to servers, workstations and other attached devices. It enables you to save time transferring large files. In addition, it also supports Jumbo Frames 9.6K to improve network utilization of large file transfers.

Exceptionally Smart

FPS-7082 provides Smart features that are ideal for simple QoS/CoS applications and basic monitoring tools to improve network efficiency. Its security and management features, such as VLAN (IEEE 802.1Q VLAN tagging and port-based VLAN) to secure your network. Through a Web-based interface, an administrator can set up VLANs to segregate traffic, QoS to prioritize mission-critical data and link aggregation to create fat traffic pipelines. In addition, FPS-7082 also supports Rapid Spanning Tree to detect and break unintentional calling loops within the network. All of these features offer extra protection on the network edge. Best of all, the password-protected configuration interface can be accessed remotely.

Advanced Security

FPS-7082 supports IEEE802.1x port authentication.

Enterprise-Class Web Management Utility

With graphic user interface, it's easy to manage, plan and configure FPS-7082 Gigabit Web Smart Ethernet Switch. This utility provides valuable tools, such as, Configuration List:

The configuration features of the Web Management utility allows the system administrator to set the IP Address, the user name and the password of FPS-7082. Monitoring List and Statistic View:

FPS-7082 can be monitored for every status by the system administrator. When an abnormal event occurs on the switch, messages can be set to notify the system administrator.

Maintenance List:

The system can easily maintain FPS-7082 by updating every status.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat.5/Cat.5e Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps/100Mbps/1000Mbps and Half/Full-Duplex mode, and adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wire-speed. Every port simultaneously supports up to 200Mbps/2000Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

Technical Specifications:

reclinical Specifications.			
Standards	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3b 1000BaseTX IEEE 802.3r 1000BaseSX/LX IEEE 802.3x Flow Control IEEE 802.3x Flow Control IEEE 802.1x Port Authentication IEEE 802.1 Port Authentication IEEE 802.10 VLAN Tagging IEEE 802.3ad Port aggregation IEEE 802.1d Spanning tree protocol IEEE 802.1 Port lass of Service, Priority Protocols		
Features	RJ-45 Ports: 8 SFP Open Slots: 2 MAC Address: 8K Buffer Memory: 144K Bytes Jumbo Frames: 9.6K Transmission Method: Store and Forward Switch Capacity: 1.6Gbps		
Smart Features	VLAN: 16 / Trunk Groups: 4 SNMP / Quality of Service IGMP Snooping LACP, RSTP Rate Limiting 802.1x Port-based Security Management: Port Mirroring, Password-protected Access, Port Settings, Web-base Management, Graphic User Interface		
Transmission Media	10BaseT Cat. 3, 4, 5 UTP/STP 100BaseTX Cat. 5 UTP/STP 1000BaseT Cat. 5E UTP/STP		
Led Indicators	Per Port: Link/Act, 1000M Per Unit: Power		
Power Requirement Power Consumption Supply Power up to	100~240V/AC, 50~60Hz 12 Watts (Max) 130/260 watt (Max)		
Dimensions	228 x 123 x 44 mm (L x W x H)		
Weight	0.95 kg		
Operating Temperature	0 to 4Õ°C		
Storage Temperature	-20 to 90°C		
Humidity Certifications	10 to 90% RH (non-condensing) FCC Class A, CE		
Certifications	TCC Class A, CL		

Model	POE Ports	LAN Ports	Web Managed
FPS-7082E	8	8	N/A
FPS-7082ME	8	8	Yes

FPS-7164E / FPS-7164ME 16 port 10M/100M/1000M Rack-Mount Gigabyte Ethernet Switch Hub



FPS-7164E / FPS-7164ME



FPS-7164E / ME

is a 16-port 10/100/1000M PoE+ with 4 Combo SFP Gigabit Ethernet Switch that is designed for medium or large network environment to strengthen its network connection. Including rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

Key Features

- 16-Port 10/100/1000M IEEE 802.3 at PSE, 4 SFP Open Slots
- 19" Rack-Mount Metal Case
- Auto-MDI/MDI-X
- Auto-Negotiation
- Non-Blocking
- Internal Power Supply

IEEE 802.3at Power over Ethernet (PoE) ports

FPS-7164E/ME features 16-port PoE+ IEEE 802.3at supplying up to 30 watts per port. This product can convert standard 90~260V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3at compliant network accessories. By adding FPS-7164E/ME to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat.5/Cat.5e Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps/100Mbps/1000Mbps and Half/Full-Duplex mode, and adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wirespeed. Every port simultaneously supports up to 200Mbps/2000Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

Technical Specifications:

recriffical Specifications.			
	IEEE 802.3 10BaseT		
	IEEE 802.3u 100BaseTX		
Standards	IEEE 802.ab 1000BaseT		
	IEEE 802.3z 1000BaseSX/LX		
	IEEE 802.3x Flow Control		
	IEEE 802.3at PoE		
	RJ-45 Ports: 16		
	SFP Open Slots: 4		
Features	MAC Address: 8K		
reateres	Buffer Memory: 500K Bytes		
	Transmission Method: Store and Forward		
	Switch Capacity: 3.2Gbps		
	10BaseT Cat. 3, 4, 5 UTP/STP		
Transmission Media	100BaseTX Cat. 5 UTP/STP		
	1000BaseT Cat. 5E UTP/STP		
Led Indicators	Per Port: Link/Act, PoE: Act/Status		
Lea indicators	Per Unit: Power		
Power Requirement	100~240V/AC, 50~60Hz		
Supply Power up to	390 Watts (Max)		
Dimensions	440 x 330 x 44 mm (L x W x H)		
Weight	4.1kg		
Operating Temperature	0 to 40°C		
Storage Temperature	-20 to 90°C		
Humidity	10 to 90% RH (non-condensing)		
Certifications	FCC Class A, CE		

Model	POE Ports	LAN Ports	Web Managed
FPS-7164E	16	16	N/A
FPS-7164ME	16	16	Yes

FPS-7242E/FPS-7242ME 24-port 10/100M PoE+2 Combo Gigabit Copper /2 SFP Rack-mount Gigabit Ethernet Switch



FPS-7242E / FPS-7242ME



FPS-7242E / ME

is 24-port 10/100M + 2 Combo Gigabit Copper / 2 SFP Rack-mount Gigabit Ethernet Switch that is designed for medium or large network environment to strengthen its network connection. Including rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

Key Features

- 24-Port 10/100BaseT(X) PoE
- 2-Port Gigabit Copper and 2 SFP Open Slots
- IEEE 802.3 at
- Web Management
- 19" Industrial Size
- Internal Power Supply

2 Combo Gigabit Copper / 2 SFP Open Slots

FPS-7242E/ME supports 2 Combo Gigabit Copper or 2 SFP open slots to uplink to servers, storage, or other switching devices for long loop reach applications

IEEE 802.3at Power over Ethernet (PoE) ports

FPS-7242 features 24-port PoE+ IEEE 802.3at supplying up to 30 watts per port. This product can convert standard 90~260V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3at compliant network accessories. By adding FPS-7242 to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps, 100Mbps, or 1000Mbps and Half/Full-Duplex mode, and adjust accordingly

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wire-speed Every port simultaneously supports up to 200 or 2000Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

Technical Specifications:			
	IEEE 802.3 af/at		
	IEEE 802.3 10BaseT		
Standards	IEEE 802.3u 100BaseTX		
	IEEE 802.ab 1000BaseT		
	IEEE 802.3z 1000BaseSX/LX		
	IEEE 802.3x Full-duplex and Flow Control		
	Number of Ports:		
	10/100BaseTX with RJ-45 Connectors: 24		
	10/100/1000BaseT with RJ-45 Connectors: 2		
Features	Combo SFP Open Slots: 2		
	MAC Address: 4K		
	Buffer Memory: 2.75Mb		
	Transmission Method: Store and Forward		
	Switch Capacity : 5.6Gbps		
	1000Mbps port – 1,488,000pps		
Filtering/Forwarding Rates	100Mbps port - 148,800pps		
	10Mbps port - 14,880pps		
	10BaseT Cat. 3, 4, 5 UTP/STP		
Transmission Media	100BaseTX Cat. 5 UTP/STP		
	1000BaseT Cat. 5E UTP/STP		
Led Indicators	Per Port: Link/Act		
	Per Unit: Power		
Power Requirement	90~260V/AC, 50~60Hz		
Power Consumption	390 Watts (Max)		
Dimensions	440 x 332 x 44 mm (L x W x H)		
Weight	3.3 kg		
Operating Temperature	0 to 45°C		
Storage Temperature	-20 to 90°C		
Humidity	10 to 90% RH (non-condensing)		
Certifications	FCC Class A, CE		

Model	POE Ports	LAN Ports	Web Managed
FPS-7242E	24	24	N/A
FPS-7242ME	24	24	Yes

FPS-7244VE / FPS-7244VME 24 Port 10M/100M/1000M Rack-Mount Gigabyte Ethernet Switch Hub



FPS-7244VE / FPS-7244VME



FPS-7244VE / VME

is a 16-port 10/100/1000M PoE+ with 4 Combo SFP Gigabit Ethernet Switch that is designed for medium or large network environment to strengthen its network connection. Including rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

Key Features

- 24-Port 10/100/1000M IEEE 802.3 at PSE, 4 SFP Open Slots
- 19" Rack-Mount Metal Case
- Auto-MDI/MDI-X
- Auto-Negotiation
- Non-Blocking
- Internal Power Supply

IEEE 802.3at Power over Ethernet (PoE) ports

FPS-7244VE/VME features 16-port PoE+ IEEE 802.3at supplying up to 30 watts per port. This product can convert standard 90~260V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3at compliant network accessories. By adding FPS-7244VE/VME to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

No Special Networking Cable Required

By adding PoE devices, you can use an existing standard Cat.5/Cat.5e Ethernet cable without a new electrical outlet for both power and data. It helps you reduce installation time and cost.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps/100Mbps/1000Mbps and Half/Full-Duplex mode, and adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wire-speed. Every port simultaneously supports up to 200Mbps/2000Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

Technical Specifications:

reciffical Specifications.			
Standards	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.ab 1000BaseT IEEE 802.3z 1000BaseSX/LX IEEE 802.3x Flow Control		
Features	IEEE 802.3at PoE RJ-45 Ports: 24 SFP Open Slots: 4 MAC Address: 8K Buffer Memory: 500K Bytes Transmission Method: Store and Forward Switch Capacity: 5.6Gbps		
Transmission Media	10BaseT Cat. 3, 4, 5 UTP/STP 100BaseTX Cat. 5 UTP/STP 1000BaseT Cat. 5E UTP/STP		
Led Indicators	Per Port: Link/Act, PoE: Act/Status Per Unit: Power		
Power Requirement	100~240V/AC, 50~60Hz		
Power Consumption	390 Watts (Max)		
Dimensions	440 x 330 x 44 mm (L x W x H)		
Weight	4.1kg		
Operating Temperature	0 to 40°C		
Storage Temperature	-20 to 90°C		
Humidity	10 to 90% RH (non-condensing)		
Certifications	FCC Class A, CE		

Model	POE Ports	LAN Ports	Web Managed
FPS-7244VE	24	24	N/A
FPS-7244VME	24	24	Yes

FPS-2422E / FPS-2422ME 24 Port 10M/100M Rack-Mount Ethernet Switch Hub



FPS-2422E / FPS-2422ME



FPS-2422E / ME

is 24-port 10/100M + 2 Combo Gigabit Copper / 2 SFP Rack-mount Gigabit Ethernet Switch that is designed for medium or large network environment to strengthen its network connection. Including rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

Key Features

- 24-Port 10/100BaseT(X) POE
- 2-Port Gigabit Copper and 2 SFP Open Slots
- IEEE 802.3af
- Web Management
- 19" Industrial Size
- Internal Power Supply

IEEE 802.3af Power over Ethernet (PoE) ports

FPS-2422E/ME features IEEE 802.3af Power over Ethernet (PoE) ports supplying Maximum 390 Watt. This product can convert standard 100~240V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3af compliant network accessories. It also features PoE awareness to verify whether the network device receive power is IEEE 802.3af compliant, or only the data will be sent through LAN cable. By adding FPS-2422E/ME to existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

2 Combo Gigabit Copper / 2 SFP Open Slots

FPS-2422E/ME supports 2 Combo Gigabit Copper or 2 SFP open slots to uplink to servers, storage, or other switching devices for long loop reach applications

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps, 100Mbps, or 1000Mbps and Half/Full-Duplex mode, and adjust accordingly.

Non-Blocking

This switch receives and forwards traffic seamlessly with its non-blocking wire-speed. Every port simultaneously supports up to 200 or 2000Mbps of bandwidth in full-duplex mode. This feature provides full wire speed to the connected devices and allows you to run a smooth network.

Store and Forward

By this function, this switch can maximize network performance while minimizing the propagation of bad network packets.

Technical Specifications:

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	IEEE 802.3af		
	IEEE 802.3 10BaseT		
Standards	IEEE 802.3u 100BaseTX		
	IEEE 802.ab 1000BaseT		
	IEEE 802.3z 1000BaseSX/LX		
	IEEE 802.3x Full-duplex and Flow Control		
	Number of Ports:		
	10/100BaseTX with RJ-45 Connectors: 24		
Features	10/100/1000BaseT with RJ-45 Connectors: 2		
	Combo SFP Open Slots: 2		
	MAC Address: 4K		
	Buffer Memory: 2.75Mb		
	Transmission Method: Store and Forward		
	Switch Capacity : 5.6Gbps		
Filtering/Forwarding Rates	1000Mbps port – 1,488,000pps		
	100Mbps port - 148,800pps		
	10Mbps port - 14,880pps		
Transmission Media	10BaseT Cat. 3, 4, 5 UTP/STP		
	100BaseTX Cat. 5 UTP/STP		
	1000BaseT Cat. 5E UTP/STP		
Led Indicators	Per Port: Link/Act		
	Per Unit: Power		
Power Requirement	90~260V/AC, 50~60Hz		
Power Consumption	390 Watts (Max)		
Dimensions	440 x 332 x 44 mm (L x W x H)		
Weight	3.3 kg		
Operating Temperature	0 to 45°C		
Storage Temperature	-20 to 90°C		
Humidity	10 to 90% RH (non-condensing)		
Certifications	FCC Class A, CE		

Model	POE Ports	LAN Ports	Web Managed
FPS-2422E	24	24	N/A
FPS-2422ME	24	24	Yes