

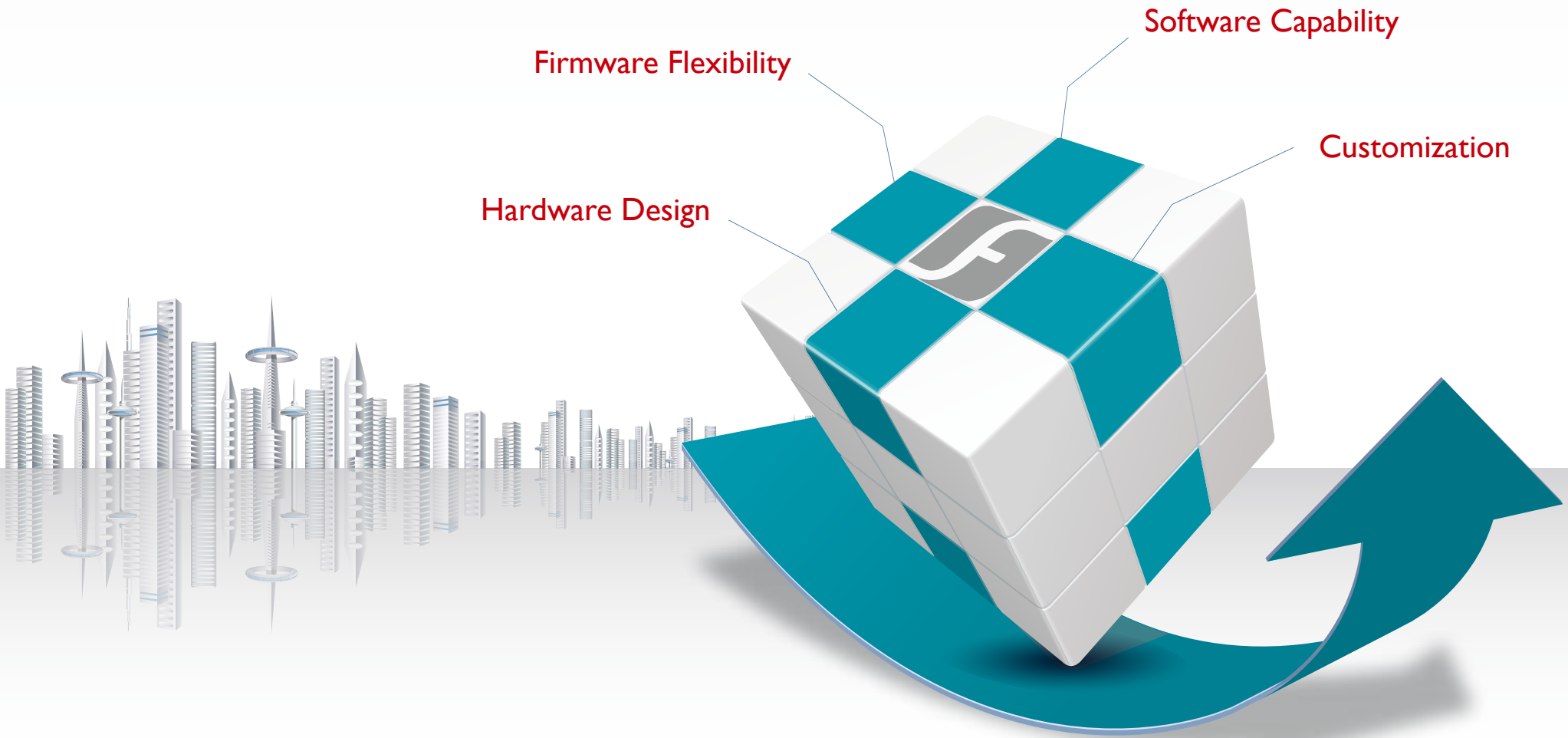
# 2017 Surveillance Product Guide

 **EverFocus**



## About EverFocus

EverFocus Electronics Corporation (TWSE: 5484) is a leading integrated security solution-based provider. Established in 1995, our lineup includes IP, analog, and vehicle surveillance solutions, as well as access control systems and access control peripherals. EverFocus has offices globally, located in Taiwan, the U.S.A, Germany, China and Japan. For more information, please visit [www.everfocus.com.tw](http://www.everfocus.com.tw)



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## Central Management Software

EverFocus Genie XMS is a client/server software platform which is utilized in Everfocus' Elite2. and Commander2 NVRs. Genie XMS is a system integration platform which is designed with a scalable and modular architecture, to allow simple expansion or integration with EverFocus systems or applications, including our access control and fleet management products.

Genie XMS features its strong compatibility and interoperability, which allows it to connect all sorts of devices including IP cameras, NVRs, DVRs, vehicle DVRs, smart mobile devices, and access control products. Therefore, it can be tailored to meet a variety of needs and would suit a wide range of applications.

Together, with the Genie XMS' web-based platform and Everfocus' MobileFocus app, users can simply access the surveillance system from any remote site just with a web browser or a -Android/iOS device, making surveillance available anywhere and anytime.



## Value IP Line

Value IP Line is featured for compact design and complete functions but relatively low prices. Value IP mini cameras stand out for its high cost-performance ratio in comparison to other cameras on the market. Value IP Line is categorized into three types: Mini Ball, Dome and Bullet cameras. All types of cameras deliver 2MP / 3MP resolution along with excellent WDR functions and various image settings. Except for EDN228, all types of cameras are outdoor models rated IP66 and also support IR function with extended IR range of up to 30m / 98.4ft. Value IP mini cameras meet various needs and adapt to different environments.



Model Name	EDN228	EBN268	EBN268V	EBN288
Megapixel	2MP	2MP	2MP	2MP
Image Sensor	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS
Lens	3.6 / 6mm Fixed Lens	3.6 / 6mm Fixed Lens	2.8-12mm Vari-focal Lens, F1.4	3.6mm Fixed Lens
Minimum Illumination	Color: 0.2 Lux @ F1.4 B/W: 0.05 Lux @ F1.4 0 Lux @ F1.4 (IR LEDs on)	Color: 0.2 Lux @ F1.4 B/W: 0.05 Lux @ F1.4 0 Lux @ F1.4 (IR LEDs on)	Color: 0.2 Lux @ F1.4 B/W: 0.05 Lux @ F1.4 0 Lux (IR LEDs on)	Color: 0.05 Lux @ F1.4 B/W: 0.005 Lux @ F1.4
IRIS	Fixed IRIS	Fixed IRIS	Fixed IRIS	Fixed IRIS
Shutter Time	1/7.5 ~ 1/15,000sec.	1/7.5 ~ 1/10,000sec.	1/7.5 ~ 1/15,000sec.	1/25 ~ 1/10,000sec.
Camera Angle Adjustment	-	-	-	-
Video Compression	H.264 / M-JPEG	H.264 / M-JPEG	H.264 / M-JPEG	H.265 / H.264
Max. Video Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Max. Frame Rate	30fps	30fps	30fps	30fps
S/N Ratio	> 50dB	> 50dB	> 50dB	≥ 50db (AGC OFF)
WDR	Yes	Yes	Yes	True WDR (120dB)
3DNR	Yes	Yes	Yes	Yes
Audio Compression	-	-	-	G.711A / 64Kbps / Two-way audio
Alarm Input / Output	-	-	-	2 / 1
IR LED (units)	-	36	36	36
IR Distance	-	Up to 30m / 98.4ft.	Up to 30m / 98.4ft.	Up to 30m / 98.4ft.
Weather Resistance	-	IP66	IP66	IP66
Vandal Resistance	-	-	-	-
On-board Storage	Micro SD / SDHC slot	-	-	-
Power Supply	12VDC / PoE (IEEE802.3af Class 3)	12VDC / PoE (IEEE802.3af Class 3)	12VDC / PoE (IEEE802.3af Class 3)	12VDC / PoE (IEEE802.3af Class 3)
Max. Power Consumption	12VDC 3.3W / PoE 3.75W	12VDC 6W / PoE 7W	12VDC 6W / PoE 7W	12VDC 5.2W / PoE 5.8W
Operating Temperature	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F
Others	EN50155	EN50155	-	-

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Model Name	EBN368	EZN268	EZN268V	EZN288	EZN368
Megapixel	3MP	2MP	2MP	2MP	3MP
Image Sensor	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS
Lens	3.6mm Fixed Lens	3.6 / 6mm Fixed Lens	2.8-12mm Vari-focal Lens, F1.4	3.6mm Fixed Lens	3.6mm Fixed Lens
Minimum Illumination	Color: 0.05 Lux @ F1.4 B/W: 0.005 Lux @ F1.4	Color: 0.2 Lux @ F1.4 B/W: 0.05 Lux @ F1.4 0 Lux @ F1.4 (IR LEDs on)	Color: 0.2 Lux @ F1.4 B/W: 0.05 Lux @ F1.4 0 Lux (IR LEDs on)	Color: 0.05 Lux @ F1.4 B/W: 0.005 Lux @ F1.4	Color: 0.05 Lux @ F1.4 B/W: 0.005 Lux @ F1.4
IRIS	Fixed IRIS	Fixed IRIS	Fixed IRIS	Fixed IRIS	Fixed IRIS
Shutter Time	1/25 ~ 1/10,000sec.	1/7.5 ~ 1/10,000sec.	1/7.5 ~ 1/15,000sec.	1/25 ~ 1/10,000sec.	1/25 ~ 1/10,000sec.
Camera Angle Adjustment	-	Pan: 360°, Tilt: 90°, Rotate: 360°	Pan: 360°, Tilt: 90°, Rotate: 360°	Horizontal: 360°, Vertical: 90°	Horizontal: 360°, Vertical: 90°
Video Compression	<b>H.265</b> / H.264	H.264 / M-JPEG	H.264 / M-JPEG	<b>H.265</b> / H.264	<b>H.265</b> / H.264
Max. Video Resolution	2048 × 1536	1920 × 1080	1920 × 1080	1920 × 1080	2048 × 1536
Max. Frame Rate	30fps	30fps	30fps	30fps	30fps
S/N Ratio	≥ 50db (AGC OFF)	> 50dB	> 50dB	≥ 50dB (AGC OFF)	≥ 50dB (AGC OFF)
WDR	True WDR (120dB)	Yes	Yes	True WDR (120dB)	True WDR (120dB)
3DNR	Yes	Yes	Yes	Yes	Yes
Audio Compression	G.711A / 64Kbps / Two-way audio	-	-	G.711A / 64Kbps / Two-way audio	G.711A / 64Kbps / Two-way audio
Alarm Input / Output	2 / 1	-	-	2 / 1	2 / 1
IR LED (units)	18	30	3 (High Power IR LEDs)	15	15
IR Distance	Up to 30m / 98.4ft.	Up to 30m / 98.4ft.	Up to 30m / 98.4ft.	Up to 30m / 98.4ft.	Up to 30m / 98.4ft.
Weather Resistance	IP66	IP66	IP66	IP66	IP66
Vandal Resistance	-	-	-	-	-
On-board Storage	-	-	-	-	Micro SD / SDHC / SDXC slot
Power Supply	12VDC / PoE (IEEE802.3af Class 3)	12VDC / PoE (IEEE802.3af Class 3)	12VDC / PoE (IEEE802.3af Class 3)	12VDC / PoE (IEEE802.3af Class 3)	12VDC / PoE (IEEE802.3af Class 3)
Max. Power Consumption	12VDC 5.2W / PoE 5.8W	12VDC 6W / PoE 7W	12VDC 8.5W / PoE 8W	12VDC 3.5W / PoE 3.9W	12VDC 3.5W / PoE 3.9W
Operating Temperature	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F
Others	-	-	-	-	-

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Motorized



Motorized



Motorized



Motorized

Model Name	EDN288M	EZN288M	EDN368M	EZN368M
Megapixel	2MP	2MP	3MP	3MP
Image Sensor	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS
Lens	2.8-12mm Motorized Lens	2.8-12mm Motorized Lens	2.8-12mm Motorized Lens	2.8-12mm Motorized Lens
Minimum Illumination	Color: 0.05 Lux @ F1.4 B/W: 0.005 Lux @ F1.4	Color: 0.05 Lux @ F1.4 B/W: 0.005 Lux @ F1.4	Color: 0.05 Lux @ F1.4 B/W: 0.005 Lux @ F1.4	Color: 0.05 Lux @ F1.4 B/W: 0.005 Lux @ F1.4
IRIS	Fixed IRIS	Fixed IRIS	Fixed IRIS	Fixed IRIS
Shutter Time	1/25 ~ 1/10,000sec.	1/25 ~ 1/10,000sec.	1/25 ~ 1/10,000sec.	1/25 ~ 1/10,000sec.
Camera Angle Adjustment	Horizontal: 150°, Vertical: 75°	Horizontal: 90°, Vertical: 180°	Horizontal: 150°, Vertical: 75°	Horizontal: 90°, Vertical: 180°
Video Compression	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264
Max. Video Resolution	1920 x 1080	1920 x 1080	2048 x 1536	2048 x 1536
Max. Frame Rate	30fps	30fps	30fps	30fps
S/N Ratio	≥ 50dB (AGC OFF)	≥ 50db (AGC OFF)	≥ 50dB (AGC OFF)	≥ 50db (AGC OFF)
WDR	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
3DNR	Yes	Yes	Yes	Yes
Audio Compression	G.711A / 64Kbps / Two-way audio	G.711A / 64Kbps / Two-way audio	G.711A / 64Kbps / Two-way audio	G.711A / 64Kbps / Two-way audio
Alarm Input / Output	2 / 1	2 / 1	2 / 1	2 / 1
IR LED (units)	12	3 (High Power IR LEDs)	12	3 (High Power IR LEDs)
IR Distance	Up to 30m / 98.4ft.	Up to 30m / 98.4ft.	Up to 30m / 98.4ft.	Up to 30m / 98.4ft.
Weather Resistance	IP66	IP66	IP66	IP66
Vandal Resistance	IK10	-	IK10	-
On-board Storage	Micro SD / SDHC / SDXC slot	Micro SD / SDHC / SDXC slot	Micro SD / SDHC / SDXC slot	Micro SD / SDHC / SDXC slot
Power Supply	12VDC / PoE (IEEE802.3af Class 3)	12VDC / PoE (IEEE802.3af Class 3)	12VDC / PoE (IEEE802.3af Class 3)	12VDC / PoE (IEEE802.3af Class 3)
Max. Power Consumption	12VDC 4.5W / PoE 4.9W	12VDC 7.4W / PoE 8.2W	12VDC 4.5W / PoE 4.9W	12VDC 7.4W / PoE 8.2W
Operating Temperature	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F
Others	-	-	-	-

eZiP Series

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60fps Low Lux



Low Lux



60fps Low Lux



Low Lux



60fps Low Lux



Low Lux

Model Name	EAN7221	EAN7360	EHN7221	EHN7360	EZN7221	EZN7360
Megapixel	2MP	3MP	2MP	3MP	2MP	3MP
Image Sensor	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS
Lens	C / CS mount, DC IRIS (Lens sold separately)	C / CS mount	Vari-focal lens, Auto Focus, 3.3-10mm, F1.3, P-IRIS	Vari-focal lens, Auto Focus, 2.8-8.5mm, F1.2, P-IRIS	Vari-focal lens, Auto Focus, 3.3-10mm, F1.3, P-IRIS	Vari-focal lens, Auto Focus, 3-10mm, F1.3, P-IRIS
Minimum Illumination	Color: 0.001 Lux @ F1.2 B/W: 0.0005 Lux @ F1.2	Color: 0.01 Lux @ F1.2 B/W: 0.0005 Lux @ F1.2	Color: 0.001 Lux @ F1.2 B/W: 0.0005 Lux @ F1.2 0 Lux at F1.3 (IR LEDs on)	Color: 0.001 Lux @ F1.2 B/W: 0.0005 Lux @ F1.2 0 Lux at F1.2 (IR LEDs on)	Color: 0.001 Lux @ F1.2 B/W: 0.0005 Lux @ F1.2 0 Lux at F1.3 (IR LEDs on)	Color: 0.001 Lux @ F1.2 B/W: 0.0005 Lux @ F1.2 0 Lux at F1.2 (IR LEDs on)
Shutter Time	1/7.5 ~ 1/32,000sec.	1/25 ~ 1/8,000sec.	1/7.5 ~ 1/32,000sec.	1/25 ~ 1/8,000sec.	1/7.5 ~ 1/32,000sec.	1/25 ~ 1/8,000sec.
Video Compression	H.265 / H.264 / M-JPEG	H.265 / H.264 / M-JPEG	H.265 / H.264 / M-JPEG	H.265 / H.264 / M-JPEG	H.265 / H.264 / M-JPEG	H.265 / H.264 / M-JPEG
Max. Video Resolution	1920 × 1080	2048 × 1536	1920 × 1080	2048 × 1536	1920 × 1080	2048 × 1536
Max. Frame Rate	Dual streams: 60fps @ 1080p; 30fps @ VGA	30fps	Dual streams: 60fps @ 1080p; 30fps @ VGA	30fps	Dual streams: 60fps @ 1080p; 30fps @ VGA	30fps
S/N Ratio	> 50dB	> 80dB	> 50dB	> 80dB	> 50dB	> 80dB
WDR	Yes	Yes	Yes	Yes	Yes	Yes
3DNR	Yes	Yes	Yes	Yes	Yes	Yes
Audio Compression	G.711 / Line-in / Two-way audio	G.711 / Line-in / Two-way audio	G.711 / Line-in / Two-way audio	G.711 / Line-in / Two-way audio	G.711 / Line-in / Two-way audio	G.711 / Line-in / Two-way audio
Alarm Input / Output	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Weather Resistance	-	-	IP68	IP68	IP68	IP68
Vandal Resistance	-	-	IK10	IK10	IK10 (for metal case)	IK10 (for metal case)
On-board Storage	Micro SD / SDHC card	Micro SD / SDHC card	Micro SD / SDHC card	Micro SD / SDHC card	Micro SD / SDHC card	Micro SD / SDHC card
Power Supply	12VDC / 24VAC~ / PoE (IEEE802.3af Class 3)	12VDC / 24VAC~ / PoE (IEEE802.3af Class 3)	12VDC / PoE (IEEE802.3af Class 3) / 24VAC~	12VDC / PoE (IEEE802.3af Class 3) / 24VAC~	12VDC / PoE (IEEE802.3af Class 3) / 24VAC~	12VDC / PoE (IEEE802.3af Class 3) / 24VAC~
Max. Power Consumption	12VDC 4.5W / 24VAC ~ 0.3A / PoE 5.1W	12VDC 4.5W / 24VAC ~ 0.3A / PoE 5.1W	12VDC 9.1W (IR LEDs on) / PoE 10.2W (IR LEDs on) / 24VAC~ 0.7A (IR LEDs on)	12VDC 8.4W (IR LEDs on) / PoE 8.736W (IR LEDs on)	12VDC 10.4W (IR LEDs on) / PoE 11.3W (IR LEDs on) / 24VAC~ 0.8A (IR LEDs on)	12VDC 8.4W (IR LEDs on) / PoE 8.736W (IR LEDs on)
Operating Temperature	-10° C ~ 50° C / 14° F~122° F	-10° C ~ 50° C / 14° F~122° F	-40° C ~ 55° C / -40° F~131° F (12VDC) -20° C ~ 55° C / -4° F~131° F (PoE)	-40° C ~ 55° C / -40° F~131° F (12VDC) -20° C ~ 55° C / -4° F~131° F (PoE)	-40° C ~ 55° C / -40° F~131° F (12VDC) -20° C ~ 55° C / -4° F~131° F (PoE)	-40° C~55° C / -40° F~131° F (12VDC) -20° C~55° C / -4° F~131° F (PoE)
Others	Privacy Mask, Region of Interest	Privacy Mask, Region of Interest	Privacy Mask, Region of Interest	Privacy Mask, Region of Interest	Privacy Mask, Region of Interest	Privacy Mask, Region of Interest

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Model Name	EPN5210	EPN5230
Megapixel	2MP	
Image Sensor	Sony Progressive Scan CMOS	
Minimum Illumination	Color: 0.05Lux@F1.6(AGC-On) B/W: 0.005Lux@F1.6(AGC-On) 0Lux With IR On	Color: 0.05Lux@F1.6(AGC-On) B/W: 0.003@F1.6(AGC-On) 0Lux With IR On
Auto IRIS	DC-IRIS	
Shutter Time	1/5 ~ 1/10,000sec.	1/25 ~ 1/5,000sec.
Optical Zoom	10x	30x
Digital Zoom	-	
Aperture	F1.6 ~ F1.8	F1.6 ~ F5.0
Focus Length	5.1mm (wide) ~ 51mm (tele)	4.3mm (wide) ~ 129mm (tele)
Video Compression	H.264	
Max Video Resolution	1920 x 1080 @ 30fps	
S/N Ratio (AGC OFF)	≥50dB (AGC OFF)	
White Balance	Auto / White low lamp / 4000K / 5000K / Sunshine / Dark clouds / Flash light / Fluorescent lamp / High fluorescent lamp / Water bottom / Customized	
WDR	Yes	
Audio Compression	G.711	
Operation Mode	-	
Horizontal Rotation Speed	0.1° /s ~ 200° /s (Manual) 240° /s (Preset)	0.1° /s ~ 150° /s (Manual) 200° /s (Preset)
Focus Control	Auto / Semi-Auto / Manual	
Manual Pan / Tilt Speed	0.1° /s ~ 200° /s	0.1° /s ~ 150° /s
Position Accuracy	± 0.1°	
Horizontal / Tilt Rotation Range	360° / 90°	
Auto Pan Speed	45° /s	
Preset Positions	255 positions	
Position Speed	300° /s	
Tour	4 groups	
Pattern	4 patterns	
Alarm Input / Output	1 / 1	2 / 1
IR LED (units)	6	8
IR Distance	80m / 260ft.	150m / 490ft.
Memory Card	Micro SD / SDHC card (up to class 10) (64G max.)	
Weather / Vandal Resistance	IP66	
Power Supply	24VDC / 24VAC~ / PoE (PoE IEEE 802.3at)	
Max. Power Consumption	25W (24VDC & 24VAC~) / 30W (PoE IEEE 802.3at)	30W (24VDC & 24VAC ) / 30W (PoE IEEE 802.3at)
Operating Temperature	-20° C ~ 55° C / -4° F ~ 131° F	

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Model Name	Commander 2	Elite 3
Number of Channels	64	24
Playback Channels	16	16
Video Output	VGA x 1 / DVI x 1 / Display x 2	VGA x 1 / HDMI x 1
Audio Input / Output	1 / 1	1 / 1
Compression Format	H.264 / H.265	H.264 / H.265
Maximum input Bandwidth (Recording Performance)	Support 1.3M, 2M, 3M and above IP cameras General performance around 960fps at 2M (Up to 5M per channel) Total bit rate: 250Mbps	Support 1.3M, 2M, 3M and above IP cameras General performance around 720 fps at 2M (Up to 5M per channel) Total bit rate: 150Mbps
Maximum output Bandwidth	300Mbps	200 Mbps
Audio & Video Recording	Synchronized audio and video recording	Synchronized audio and video recording
Recording Modes	Continuous record, Record by schedule, Event trigger record	Continuous record, Record by schedule, Event trigger record
LAN Speed	10 / 100 / 1000Mbps (RJ45 x 2)	10 / 100 / 1000Mbps (RJ45 x 2)
Ethernet	Gigabit port x 2	Gigabit port x 2
Number of Drives	8 x SATA II/III (3.5" HDD)	4 x SATA II (3.5" HDD or 2.5" HDD)
Max. Storage	32 TB	40 TB
External Storage	i-SCSI (Option V100)	-
USB	5 x USB 2.0	2 x USB 2.0 ; 4 x USB 3.0
eSATA	-	TBD
POS	TBD	TBD
Remote Live View Control	Live view, preset / go, PTZ, snapshot, multi-view, digital PTZ, bandwidth monitoring	Live view, preset / go, PTZ, snapshot, multi-view, digital PTZ, bandwidth monitoring
Max. Power Source	100 ~ 240VAC~, 3.5A 510W	100 ~ 240VAC, 4A 250W
Operating Temperature	0° C ~ 40° C / 32° F ~ 104° F (5 ~ 95% non-condensing)	10° C ~ 35° C / 50° F ~ 95° F
Dimensions (W x D x H)	88.8 x 482.6 x 700 mm / 3.5" x 19" x 27.5"	240mm x 210mm x 240mm / 9.45" x 8.27" x 9.45"



Model Name	EPRO NVR 32	EPRO NVR 16	EPRO NVR 9	EPRO NVR 4	EDA450
Number of Channels	Up to 32	Up to 16	Up to 9	Up to 4	-
Playback Channels	Up to 16		Up to 9	Up to 4	-
Video Output	HDMI x 1 / VGA x 1				-
Audio Input / Output	1 / 1				-
Compression Format	H.264 / H.265				-
Maximum input Bandwidth (Recording Performance)	Support 8MP (4K), 5MP, 3MP, 2MP(1080P), 1.0MP(720P) (Up to 8M per channel) Total bit rate: 250Mbps				-
Maximum output Bandwidth	Incoming Max. 128Mbps, outgoing 256Mbps				-
Audio & Video Recording	Synchronized audio and video recording				-
Recording Modes	Manual, Schedule and Event				-
LAN Speed	10 / 100 / 1000Mbps				-
Ethernet	Gigabit port x 2	Gigabit port x 1			-
Number of Drives	4 x SATA II (3.5" HDD)	2 x SATA II (3.5" HDD)			4 x SATA I/II/III (3.5" HDD)
Max. Storage	24TB	12TB			24TB
RAID	N/A				-
External Storage	1 x eSATA (Option EDA450)				-
USB	2 x USB 2.0 ; 1 x USB 3.0				-
eSATA	1				-
POS	N/A				-
Remote Live View Control	Live view, PTZ, snapshot, multi-view, digital PTZ, bandwidth monitoring				-
Max. Power Source	100 - 240VAC~, 150W	12VDC / 5A, 60W			150W x 1 (AC100~240V)
Operating Temperature	0° C ~ 40° C / 32° F ~ 104° F (20 ~ 80% non-condensing)				-
Dimensions (W x D x H)	430 x 399.3 x 79.5mm / 16.93" x 15.72" x 3.13"	378 x 328 x 49.5mm / 14.88" x 12.91" x 1.95"			482 x 381 x 43mm / 19" x 15" x 1.7"

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Model Name	ES0501-40	ES0802-4I	ES0812-3I	ES1625-3I
Number of Ports	5	8	8	16
Uplink Ports	0	0	1 (RJ-45)+1 (SFP)	2
Standards	IEEE802.3af / at IEEE802.3 10BaseT IEEE802.3u 100BaseTX IEEE802.3ab 1000BaseT IEEE802.3x Flow Control	IEEE802.3 10BaseT IEEE802.3u 100BaseTX IEEE802.ab 1000BaseT IEEE802.3z 1000BaseSX/LX IEEE802.3x Flow Control IEEE802.3at PoE IEEE802.1x Port Authentication IEEE802.1Q VLAN Tagging IEEE802.3ad Port aggregation IEEE802.1d Spanning tree protocol IEEE802.1w Rapid Spanning tree protocol IEEE 802.1p Class of Service, Priority Protocols	IEEE802.3 10BaseT IEEE802.3u 100BaseTX IEEE802.ab 1000BaseT IEEE802.3z 1000BaseSX/LX IEEE802.3x Flow Control IEEE802.3ad Link Aggregation Control Protocol IEEE802.1Q VLAN IEEE802.1p Class of Service IEEE802.1D Spanning Tree Protocol IEEE802.1w Rapid Spanning Tree Protocol IEEE802.3at Power Over Ethernet (PoE+)	Ethernet: IEEE 802.3 10BaseT IEEE802.3u 100BaseTX IEEE802.ab 1000BaseT IEEE802.3z 1000BaseSX/LX IEEE802.3x Flow Control IEEE802.3ad Link Aggregation Control Protocol IEEE802.1Q VLAN IEEE802.1p Class of Service IEEE802.1D Spanning Tree Protocol IEEE802.1w Rapid Spanning Tree Protocol IEEE802.3at Power Over Ethernet (PoE+)
Features	10 / 100 / 1000BaseT (X) with 4 PSE / Power over Ethernet Ports MAC Address: 2K Transmission Method: Store and Forward Switching Capacity: 10Gbps Jumbo Frames: 9K	MAC Address: 8K Buffer Memory: 144K Bytes Switching Capacity: 16Gbps Jumbo Frames: 9K Transmission Method: Store and Forward	Fast Ethernet: 8-port 10 / 100 Base-TX, IEEE802.3at PSE Gigabit Ethernet: 1-port 10 / 100 / 1000 Base-T, 1-port Gigabit SFP MAC Address: 4K Buffer Memory: 2.75Mb Transmission Method: Store and Forward Switching Capacity: 5.6Gbps Jumbo Frames: 10K	10 / 100BaseTX with RJ-45 Connectors: 16 port with PoE+ Gigabit Uplink: 2x 10 / 100 / 1000BaseT RJ-45 / Gigabit SFP Combo Port MAC Address: 4K Buffer Memory: 2.75Mb Transmission Method: Store and Forward Switching Capacity: 7.2Gbps Jumbo Frames: 10K
Smart Features	Auto-MDI / MDI-X Function Auto-Negotiation Function	VLAN: 16 Trunk Groups : 4 SNMP Quality of Service (QoS) IGMP Snooping LACP, RSTP Rate Limiting 802.1x Port-based Security Management: Port Mirroring, Password-protected Access, Port Settings, Web-based Management, Graphic User Interface	Port Based VLAN: 10 Tagged Based VLAN: 32, VID = 1 ~ 4094 STP/RSTP IGMP Snooping V1 & V2 Quality of Service (QoS) Security: Port & MAC binding, 3 MAC per port Port: Port State, Speed / Duplex, Port Mirroring Bandwidth Control Broadcast Storm Control PoE Control: PoE Port Enable / Disable, PoE Status Management: Web Management, password protection Configuration backup / restore, Firmware upgrade	Port Based VLAN: 18 Tagged Based VLAN: 32, VID = 1 ~ 4094 STP / RSTP IGMP Snooping V1 & V2 Quality of Service (QoS) Security: Port & MAC binding, 3 MAC per port Port: Port State, Speed / Duplex, Port Mirroring Bandwidth Control Broadcast Storm Control PoE Control: PoE Port Enable / Disable, PoE Status Management: Web Management, password protected access, Configuration backup / restore, TFTP firmware upgrade
Power Input	48VDC	90 - 264VAC~, 50 ~ 60Hz	100 - 240VAC~, 50 ~ 60Hz	100 - 240VAC~, 50 ~ 60Hz
Power Output	48VDC Per Port Output	53VDC Per Port Output	53VDC Per Port Output	53VDC Per Port Output
Max. Power Consumption	70W	130W	130W	250W
Dimensions	24 x 130 x 24mm / 5.1" x 3.8" x 0.9" (H x W x D)	44 x 266 x 161mm / 10.4" x 6.3" x 1.7" (H x W x D)	44 x 266 x 161mm / 1.7" x 10.4" x 6.3" (H x W x D)	44 x 440 x 331mm / 1.7" x 17.3" x 13" (H x W x D)
Operating Temperature	0° C ~ 40° C / 32° F ~ 104° F	0° C ~ 40° C / 32° F ~ 104° F	0° C ~ 45° C / 32° F ~ 113° F	0° C ~ 40° C / 32° F ~ 104° F
Storage Temperature	-20° C ~ 90° C / -4° F ~ 194° F	-20° C ~ 90° C / -4° F ~ 194° F	-20° C ~ 90° C / -4° F ~ 194° F	-20° C ~ 90° C / -4° F ~ 194° F
Humidity	10 ~ 90% RH (non-condensing)	10 ~ 90% RH (non-condensing)	10 ~ 90% RH (non-condensing)	10 ~ 90% RH (non-condensing)
Certificates	FCC Class A, CE	FCC Class A, CE	FCC Class B, CE	FCC Class B, CE
Weight	0.3kg / 0.6lb	1.6kg / 3.5lb	1.8kg / 4lb	4.2kg / 9.3lb

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Model Name	ES1645-51	ES2426-31	ES2446-51	ES2448-62
Number of Ports	16	24	24	24
Uplink Ports	4	2	4	4
Standards	Ethernet: IEEE802.3 10BaseT IEEE802.3u 100BaseTX IEEE802.ab 1000BaseT IEEE802.3z 1000BaseSX/LX IEEE802.3x Full-duplex and Flow Control IEEE802.1Q VLAN IEEE802.3ad Link Aggregation Control Protocol IEEE802.1D Spanning Tree Protocol IEEE802.1w Rapid Spanning Tree Protocol IEEE802.1p Class of Service IEEE802.1X Port-based Network Access Control IEEE802.3at Power Over Ethernet (PoE+)	Ethernet: IEEE802.3 10BaseT IEEE802.3u 100BaseTX IEEE802.ab 1000BaseT IEEE802.3z 1000BaseSX/LX IEEE802.3x Flow Control IEEE802.3ad Link Aggregation Control Protocol IEEE802.1Q VLAN IEEE802.1p Class of Service IEEE802.1D Spanning Tree Protocol IEEE802.1w Rapid Spanning Tree Protocol IEEE802.1p Class of Service IEEE802.1X Port-based Network Access Control IEEE802.3at Power Over Ethernet (PoE+)	Ethernet: IEEE802.3 10BaseT IEEE802.3u 100BaseTX IEEE802.ab 1000BaseT IEEE802.3z 1000BaseSX/LX IEEE802.3x Full-duplex and Flow Control IEEE802.1Q VLAN IEEE802.3ad Link Aggregation Control Protocol IEEE802.1D Spanning Tree Protocol IEEE802.1w Rapid Spanning Tree Protocol IEEE802.1p Class of Service IEEE802.1X Port-based Network Access Control IEEE802.3at Power Over Ethernet (PoE+)	Ethernet: IEEE802.3, 802.3u, 802.3ab, 802.3ae IEEE802.3az Energy Efficient Ethernet (EEE) Protocol: IEEE802.3x - Flow Control IEEE802.1Q - VLAN IEEE802.1p - Class of Service IEEE802.1D - Spanning Tree IEEE802.1w - Rapid Spanning Tree IEEE802.1s - Multiple Spanning Tree, IEEE802.3ad - Link Aggregation Control Protocol (LACP) IEEE802.1v - Protocol VLAN, IEEE802.1AB - LLDP (Link Layer Discovery Protocol) IEEE802.1X - Access Control
Features	10 / 100 / 1000M RJ-45 Ports: 16 ports with IEEE802.3at PoE+ Gigabit SFP: 4, Combo with 4 10 / 100 / 1000M RJ-45 MAC Address: 8K Buffer Memory: 500Kb Jumbo Frames: 12.2K Transmission Method: Store and Forward Switching Capacity: 32Gbps	10 / 100BaseTX with RJ-45 Connectors: 24 port with PoE+ Gigabit Uplink: 2x 10 / 100 / 1000BaseT RJ-45 / Gigabit SFP Combo Port MAC Address: 4K Buffer Memory: 2.75Mb Transmission Method: Store and Forward Switching Capacity: 8.8Gbps Jumbo Frames: 10K	10 / 100 / 1000M RJ-45 Ports: 24 ports with IEEE802.3at PoE+ Gigabit SFP: 4, Combo with 4 10 / 100 / 1000M RJ-45 MAC Address: 8K Buffer Memory: 500Kb Jumbo Frames: 12.2K Transmission Method: Store and Forward Switching Capacity: 48Gbps	10 / 100 / 1000Base RJ-45 Port : 24, Auto-negotiation, Auto MDI / MDIX 1G SFP / 10G SFP+ : 4 Switching Capacity: 88Gbps MAC Address Table Size: 32K Forwarding Rate: 95.2Mpps Packet Buffer: 4Mb Switching Capacity: 128Gbps Jumbo Frames: 10K
Smart Features	VLAN: 16, VLAN ID: 1 ~ 4094 IGMP Snooping V1 & V2 LACP / Trunk: up to 8 groups Quality of Service (QoS) PoE Control: PoE Port Enabled / Disable, Status IEEE 802.1X, Source IP Filter Storm Control: Broadcast, Multicast, Flood Unicast Port: Port State, Speed / Duplex Rate Limiting, Port Mirroring Management: Web GUI, SNMP, Password protection Configuration upload / download, Firmware upgrade	Port Based VLAN: 26 Tagged Based VLAN: 32, VID = 1 ~ 4094 STP / RSTP IGMP Snooping V1 & V2 Link Aggregation: 3 groups Quality of Service (QoS) Security: Port & MAC binding, 3 MAC per port Port: Port State, Speed / Duplex Port Mirroring Bandwidth Control Broadcast Storm Control PoE Control: PoE Port Enable / Disable, PoE Status Management: Web Management, password protected access, Configuration backup / restore, TFTP firmware upgrade	VLAN: 16, VLAN ID: 1 ~ 4094 IGMP Snooping V1 & V2 LACP / Trunk: up to 8 groups Quality of Service (QoS) PoE Control: PoE Port Enabled / Disable, Status IEEE 802.1X, Source IP Filter Storm Control: Broadcast, Multicast, Flood Unicast Port: Port State, Speed / Duplex Rate Limiting, Port Mirroring Management: Web GUI, SNMP, Password protection Configuration upload / download, Firmware upgrade	L2 Features: Flow Control: 802.3x (Full-duplex)ort / Back-Pressure (Half-duplex) Loop Detection VLAN: IEEE802.1Q Tagged Based, Max. VLAN Group: 4K QinQ Port-based VLAN Voice VLAN Private VLAN MVR MAC-Based VLAN Protocol-Based VAN IGMP Snooping: IGMP Snooping v1 / v2 / v3 IPv6 MLD Snooping v1 / v2 Querier support / IGMP Filtering, IGMP Leave Proxy, Immediate Leave Storm Control: Broadcast/ Multi-cast / Un-known Unicast
Power Input	100 - 240VAC~, 50 ~ 60Hz	100 - 240VAC~, 50 ~ 60Hz	100 - 240VAC~, 50 ~ 60Hz	100 - 240VAC~, 50 ~ 60Hz
Power Output	53VDC Per Port Output	53VDC Per Port Output	53VDC Per Port Output	53VDC Per Port Output
Max. Power Consumption	250W	400W	400W	500W
Dimensions	44 x 440 x 331mm / 1.7" x 17.3" x 13" (H x W x D)	44 x 440 x 331mm / 1.7" x 17.3" x 13" (H x W x D)	44 x 440 x 331mm / 1.7" x 17.3" x 13" (H x W x D)	44 x 440 x 331mm / 1.7" x 17.3" x 13" (H x W x D)
Operating Temperature	0° C ~ 40° C / 32° F ~ 104° F	0° C ~ 40° C / 32° F ~ 104° F	0° C ~ 40° C / 32° F ~ 104° F	0° C ~ 40° C / 32° F ~ 104° F
Storage Temperature	-20° C ~ 90° C / -4° F ~ 194° F	-20° C ~ 90° C / -4° F ~ 194° F	-20° C ~ 90° C / -4° F ~ 194° F	-20° C ~ 90° C / -4° F ~ 194° F
Humidity	10 ~ 90% RH (non-condensing)	10 ~ 90% RH (non-condensing)	10 ~ 90% RH (non-condensing)	5 ~ 90% RH (non-condensing)
Certificates	FCC Class A, CE	FCC Class B, CE	FCC Class A, CE	FCC Class A, CE
Weight	4.4kg / 9.7lb	4.7kg / 10.4lb	4.7kg / 10.4lb	4.3kg / 9.5lb

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# ESK1000

## Connect, Power-up Right Away

Mobile Device

Power Adaptor

PoE-equipped IP Camera

DC-powered IP Camera

(CAG1000) Cigarette Charger

USB Charger for Mobile Device

PoE

Plug & Play

Camera Power Provided

USB Drive

Wifi

Support iOS/Android

Intelligent Search

POWER 12VDC

Easy to Use

### Features

- Viewing IP camera video through iOS / Android portable devices
- Supports all brands of IP cameras
- Equipped with high capacity lithium battery
- PoE and DC power supply
- Features a WiFi router with a built-in DHCP server
- Multi-function
  - Portable device charger
  - Wireless access point (AP) provider
- Compact size and easy to carry

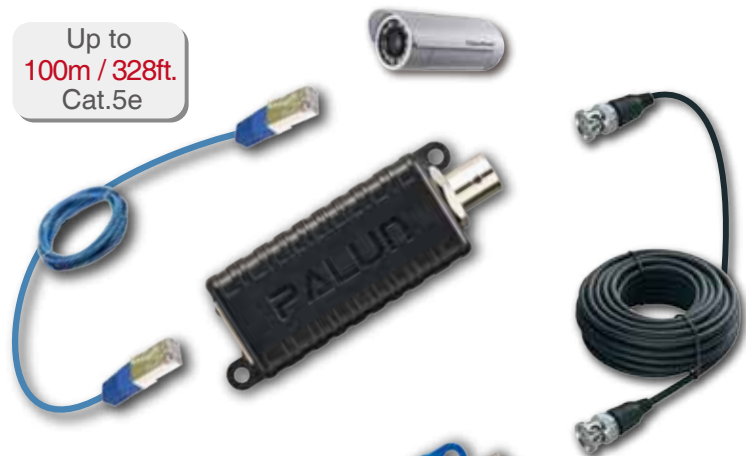
### Specifications

Cell type	18650 (2950mA) x 4pcs	
Input	19VDC / 3.16A	
Output	PoE	30W Max.
	12VDC	12V / 1.5A
	USB	5V / 1A
Protection	Overcharge	Yes
	Overdischarge	Yes
	Shortcircuit	Yes
	Overheating	Yes
	Excessive Load	Yes
Power / Capacity Indicator	Charging Indicator	Yes (Charging: Red / Full: Green)
	Power Indicator	Yes (Blue < 100%, 80%, 60%, 40%, 20% >)
	PoE Power Supply Indicator	Yes (Green)
General	Dimensions	76.2 x 25.4 x 156mm / 3" x 1" x 6.1"
	Weight	550g / 1.2lb
	Operating Temperature	0° C ~ 40° C / 32° F ~ 104° F
	Certificates	CE, FCC

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Any PoE Device / PoE IP Camera  
(works with EverFocus and 3rd-party IP cameras)

Up to  
100m / 328ft.  
Cat.5e



Up to  
100m / 328ft.  
Cat.5e

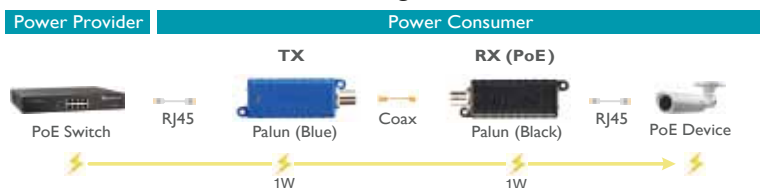


Up to  
150m / 492ft.  
Coax

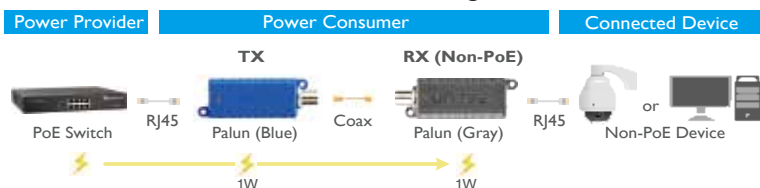
PoE Switch



PoE Device Connection Diagram



Non-PoE Device Connection Diagram



Features

- Maximum connection distance of 350m / 1,148ft.
- Automatic 802.3at & af PoE detection
- Automatic MDI/MDI-X detection
- Any Networking Device (PoE / Non-PoE)
- Slim & compact design
- Easy installation
- Low network signal attenuation

Model Name

Palun01

Ethernet Standards	IEEE802.3af/at IEEE 802.3 10BastT IEEE802.3u 100BaseTX IEEE802.3x Flow Control
Smart Features	Auto MDI / MDI-X Function Auto-Negotiation Function
Power Input	IEEE 802.3 at : 50~57V / 30W (Max) IEEE 802.3 af : 44~57V / 15.4W (Max)
Power Output	IEEE 802.3 at : 50~57V / 30W (Max) IEEE 802.3 af : 44~57V / 15.4W (Max)
Transmission Distance	Up to 350m / 1,148ft.
BNC	Impedance 75Ω
Dimensions	27 x 25 x 74mm / 1.1" x 1.0" x 2.9"
Weight	90g / 0.2lb
Operating Temperature	-10° C ~ 50° C / 14° F ~ 122° F
Humidity	10 ~ 90% RH (non-condensing)
Certificates	UL, CE, FCC

eZ.IP Series

Ordering Options



PoE Device

Item	1 Pair Hanging Card Package	10-Pair Box Pack	Single Box Pack	Single Box Pack
Description	PALUN-T (Blue) & PALUN-R (Black)x 1PAIR	PALUN-T (Blue) & PALUN-R (Black)x 10PAIRS	PALUN-T (Blue)x 1PCE	PALUN-R (Black)x 1PCE

Non-PoE Device

Item	Single Box Pack	Single Box Pack
Description	PALUN-T (Blue)x 1PCE	PALUN-XR (Gray)x 1PCE

PALUN Rack Mount Bracket (Screws included)



Model Name

BA-PUI2

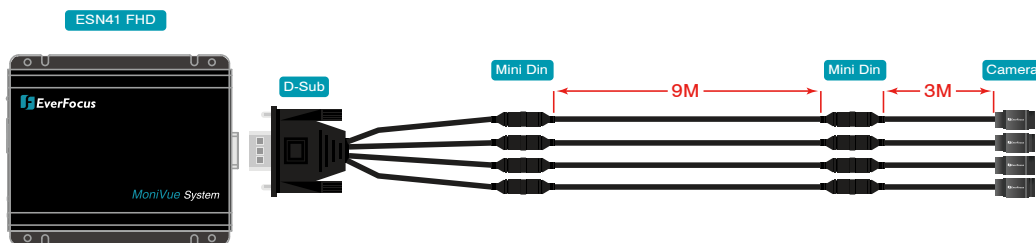
Description

Installed up to 12 sets of Palun TX (Blue)

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Model Name	ESN41 FHD	ESN41-E FHD
Number of Channels	4 CH (Analog SD/HD)	
Video Compression	H.264	
Audio Inputs / Outputs	4 / 1 (RCA)	
Video Output	Main Monitor : VGAX1 Call Monitor : BNC x1	
Video Interface	4 / Mini din	
Recording Resolution	1080p / 720p / 960H / DI / CIF / QCIF	
Recording Rate	NTSC : 30fps/CH, PAL : 25fps/CH	
Pre Alarm Recording	Yes	
Playback Mode	Duplex	
Alarm Inputs / Outputs	4 / 4	-
Video Loss Detection	Yes	
Event Alarm	Yes	
Networking	RJ-45 Port x 1 (10/100/1000M)	
Storage	SDHC / SDXC Slot x 2 (max. 128GB per card)	SDHC / SDXC Slot x 1 (max. 128GB per card)
Interfaces	RJ-45 x 1, USB2.0 x 1, External I/O Port x 1, RS 485	RJ-45 x 1, USB2.0 x 1, External I/O Port x 1,
PTZ control	Yes	
Power Source	12VDC 30W PoE 27W	12VDC 30W
Operating Temperature	-40° C ~ 55° C / -40° F ~ 131° F	
Dimensions (W x D x H)	111 x 158 x 38.4mm / 4.37" x 6.22" x 1.51" (without brackets)	
Weight	650g / 1.43lb	
Certificates	CE, FCC, E-Mark	



Model Name	S200	S208
Pickup Device	Sony 1080P CMOS	Sony 1080P CMOS
Video Format	NTSC / PAL (Can be switched via OSD)	NTSC / PAL (Can be switched via OSD)
Effective Pixels	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)
Scanning System	Progressive Scan	Progressive Scan
Sensitivity	0.2Lux	0.2Lux
S/N Ratio	> 45dB	> 45dB
Electronic Shutter	Auto / Manual (1 ~ 1/50,000) / FLK	Auto / Manual (1 ~ 1/50,000) / FLK
Video Output	Mini din 1.0Vp-p 75Ω	Mini din 1.0Vp-p 75Ω
Lens Type	2.7mm, F2.2	2.7mm, F2.2
BLC	Yes	Yes
AWB	Yes	Yes
DNR	Yes	Yes
WDR	D-WDR	D-WDR
IR LED (units)	-	-
IR Distance	-	-
Weather Resistance	IP66	IP66
Power Supply	12VDC	12VDC
Max. Power Consumption	12VDC, 0.1A max	12VDC, 0.1A max
Operating Temperature	-20° C ~ 50° C / -4° F ~ 122° F	-20° C ~ 50° C / -4° F ~ 122° F
Certifications	CE, FCC, RoHS	CE, FCC, RoHS

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## H.264 Video Encoder



Model Name	EVS410 FHD
Number of Channels	4CH (SD/HD)
Video Compression	H.264
Video Interface	4 / BNC
Audio Inputs / Outputs	4 / 1 (RCA)
Video Output	Main Monitor :VGA x 1 Call Monitor : BNC x 1
Recording Resolution	1080p / 720p / 960H / D1 / CIF / QCIF
Recording Rate	NTSC: 30fps/CH PAL: 25fps/CH
Pre Alarm Recording	Yes
Playback Mode	Duplex
Alarm Inputs / Outputs	4 / 4
Video Loss Detection	Yes
Event Alarm	Yes
Networking	RJ-45 Port x 1 (10/100/1000M)
Storage	SDHC Slot x 2 (max. 128GB per card)
Interfaces	RJ-45 x 1, USB2.0 x 1, External I/O Port x 1, RS 485
PTZ control	Yes
Power Source	PoE 26.5W / 12VDC 10W
Operating Temperature	-40° C ~ 55° C / -40° F ~ 131° F
Dimensions (W x D x H)	131 x 171.1 x 38.4mm / 5.16" x 6.74" x 1.51" (without brackets)
Weight	650g / 1.43lb (without brackets)
Certificates	CE, FCC, E-Mark

## EF-Reader

Enhanced HDD Reader for Local / Remote Users with Privileges

### Features

- Supports sources from local and remote HDDs; or local saved files
- Supports AVI, MP4 and AVR file formats
- User right management for accessing between local and remote computers
- AB repeat playback
- Multi-channel archiving and archive video merging
- Encrypted watermark
- Privacy mask on archived recordings
- Graph analytics of vehicle data including GPS, G-sensor and meta data
- Event search
- Data export including log, GPS and meta data

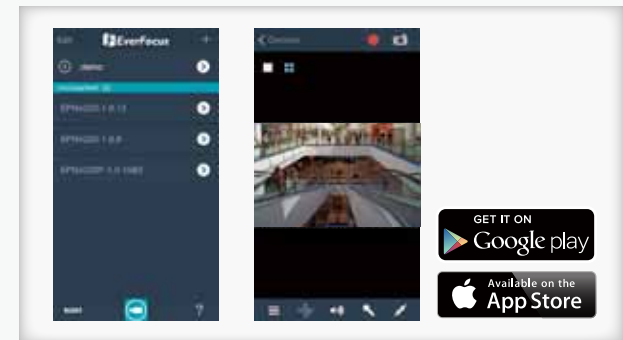


## MobileFocus Plus App

Advanced Central Management Viewing for Mobile Devices

### Features

- Support for all EverFocus IP Camera / DVRs / Mobile DVRs / NVRs / Genie XMS Servers
- Live view
  - 4 channel view
  - Snapshot
  - Sequence
  - Digital zoom
  - Time / Title display
- Playback
- PTZ controls
- Address book
- Device Group
- Alarm Pop-up (HD version)
- Push Notification from Genie XMS Server



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### eZ.HD Solution

Seamlessly migrate from analog to Full HD solution without video latency effect

EverFocus eZ.HD solution, stands for analog high definition, provides Full HD uncompressed and lossless video quality that keeps all the original video details. The eZ.HD solution is backward compatible with 720p / 960H / DI products, and supports video transmission over traditional 75-3 coaxial cable up to 500 meters. The eZ.HD solution inherits and carries forward advantages of traditional analog solution, truly achieves seamless migration from traditional analog to analog HD.

#### Benefits from eZ.HD DVRs:

- Full HD image quality
- Control eZ.HD camera's OSD / PTZ over coax. (eZ Controller function)
- Backward compatible with 720p / 960H / DI cameras
- Coaxial and UTP cables supported
- Remote access from App, Web browser or Genie XMS (CMS)

#### Benefits from eZ.HD Cameras:

- 1080p / 720p / 960H Switchable
- NTSC / PAL Switchable
- Fixed and Varifocal Lens
- Dual Power (12VDC / 24VAC)
- Low Temperature (-40° C / -40° F)



DVD 1080P



Hot-Swap DVD 1080P

Model Name	PARAGON FHD 32x4	PARAGON FHD 16x4
HD or WDI Video Input	32 CH	16 CH
Compression	H.264	
Video Interface	32 BNC	16 BNC
Audio Input / Output	4 / 1	16 / 2
Video Looping Output	N/A	16 BNC
Monitor Output	HDMI x 1 / VGA x 1	HDMI x 1 / VGA x 1 / BNCx 1
Recording Rate / Resolution	Analog : NTSC 480fps @ 1080p PAL 400fps @ 1080p IP : NTSC:30fps(each ch) PAL: 25fps(each ch)	NTSC 480fps @ 1080p; PAL 400fps @ 1080p
Playback Rate / Resolution	Analog : NTSC 480fps @ 1080p PAL 400fps @ 1080p IP : NTSC:30fps(each ch) PAL: 25fps(each ch)	NTSC 480fps @ 1080p; PAL 400fps @ 1080p
Recording Mode	Manual, Schedule, Event	
Alarm Input / Output	8 / 1	16 / 4
Network / Protocol	10 / 100 / 1000 Ethernet x 1 / TCP-IP / DHCP / PPPoE / DDNS / SMTP / NTP	
Internal HDD	3.5" HDD x 4 (Max. 32TB) optional	3.5" HDD x 4 (Max. 16TB)
External HDD	1 x eSATA	
Built-in DVD Burner	N/A	16 x 4
Hot-Swappable	N/A	
USB Interface	2 x USB 2.0 ; 1 x USB 3.0 port	3 x USB 2.0 port
RS-232 / RS-485	0 / 1	
PTZ Protocols Supported	Pelco D, Pelco P, Samsung, Transparent, Everfocus	
Max. Power Consumption	100 - 240VAC~, 300W	100 - 240VAC~, 150W
Operating Temperature	0° C ~ 40° C / 32° F ~ 104° F (20 ~ 80% non-condensing)	
Dimension (W x D x H)	430 x 423 x 95mm / 16.93" x 16.65" x 3.74"	
Weight	6kg / 13.2lb (without HDDs)	8.2kg / 20.83lb (without HDDs)
Certificates	CE, FCC, UL ,BSMI	CE, FCC, UL

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AHD + TVI DVD 1080P



AHD + TVI 1080P



AHD + TVI 1080P



AHD + TVI 1080P

Model Name	ELUX16x2	ELUX4	ELUX8	ELUX16
HD or WDI Video Input	16 CH	4 CH	8 CH	16 CH
Compression	H.264	H.264	H.264	H.264
Video Interface	16 BNC	4 BNC	8 BNC	16 BNC
Audio Input / Output	16 / 1	4 / 1	8 / 1	16 / 1
Video Looping Output	N/A		N/A	
Monitor Output	HDMI x 1 / VGA x 1 / BNC x 1			
Recording Rate / Resolution	NTSC 240fps @ 1080p; 480fps @ other res. PAL 200fps @ 1080p; 400fps @ other res.	NTSC 60fps @ 1080p; 120fps @ other res. PAL 50fps @ 1080p; 100fps @ other res.	NTSC 120fps @ 1080p; 240fps @ other res. PAL 100fps @ 1080p; 200fps @ other res.	NTSC 240fps @ 1080p; 480fps @ other res. PAL 200fps @ 1080p; 400fps @ other res.
Playback Rate / Resolution	NTSC 240fps @ 1080p; 480fps @ other res. PAL 200fps @ 1080p; 400fps @ other res.	NTSC 60fps @ 1080p; 120fps @ other res. PAL 50fps @ 1080p; 100fps @ other res.	NTSC 120fps @ 1080p; 240fps @ other res. PAL 100fps @ 1080p; 200fps @ other res.	NTSC 240fps @ 1080p; 480fps @ other res. PAL 200fps @ 1080p; 400fps @ other res.
Recording Mode	Manual, Schedule, Event			
Alarm Input / Output	16 / 1		4 / 1	
Network / Protocol	10 / 100 / 1000 Ethernet x 1 / TCP-IP / DHCP / PPPoE / DDNS / SMTP / NTP	10 / 100 Ethernet x 1 / TCP-IP / DHCP / PPPoE / DDNS / SMTP / NTP		10 / 100 / 1000 Ethernet x 1 / TCP-IP / DHCP / PPPoE / DDNS / SMTP / NTP
Internal HDD	3.5" HDD x 4 (Max. 16TB)(optional)	1 x SATA 3.5 HDD (Optional)	2 x SATA 3.5 HDD (Optional)	
External HDD	1 x eSATA		N/A	
Built-in DVD Burner	DVD Burner (optional)		N/A	
Hot-Swappable			N/A	
USB Interface	2 x USB 2.0 port		2 x USB 2.0 port (1 on Front Panel, 1 on Back Panel)	
RS-232 / RS-485			0 / 1	
PTZ Protocols Supported	EverFocus, Pelco D, Pelco P, Samsung, Transparent			
Max. Power Consumption	12VDC / 8A 96W		12VDC / 5A 60W	
Operating Temperature	0° C~40° C / 32° F~104° F (20 ~ 80% humidity)			
Dimension (W x D x H)	395 x 430 x 79.5mm / 15.6" x 16.9" x 3.2"		320 x 267.8 x 59.9mm / 12.6" x 10.54" x 2.36"	
Weight	6kg / 13.23lb	2.36kg / 5.2lb	3.14kg / 6.92lb	
Certificates	CE, FCC,UL, BSMI		CE, FCC,UL	
			CE, FCC,UL, BSMI,	

eZ.HD Series

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1080P



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## Model Name

Model Name	ECD900F	ED910F	ED930F	EHD930F	EHD935F
Pickup Device	SONY 1080p CMOS	SONY 1080p CMOS	SONY 1080p CMOS	SONY 1080p CMOS	SONY 1080p CMOS
Video Format	NTSC / PAL (can be switched via OSD)	NTSC / PAL (can be switched via OSD)	NTSC / PAL (can be switched via OSD)	NTSC / PAL (can be switched via OSD)	NTSC / PAL (can be switched via OSD)
Effective Pixels	1920 (H) x 1080 (V)	1920 (H) x 1080(V)	1920 (H) x 1080(V)	1920 (H) x 1080(V)	1920 (H) x 1080(V)
Scanning System	Progressive Scan	Progressive Scan	Progressive Scan	Progressive Scan	Progressive Scan
Sensitivity	0.01 Lux / F1.4	0.01 Lux / F1.4	0 Lux with IR On	0 Lux with IR On	0 Lux with IR On
S/N Ratio	> 48dB (AGC off)	> 48dB (AGC off)	> 48dB (AGC off)	> 48dB (AGC off)	> 48dB (AGC off)
Electronic Shutter	Auto / Manual (x30 ~ 1/50,000) / Flk	Auto / Manual (x30 ~ 1/50,000) / Flk	Auto / Manual (x30 ~ 1/50,000) / Flk	Auto / Manual (x30 ~ 1/50,000) / Flk	Auto / Manual (x30 ~ 1/50,000) / Flk
Video Output	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω
Lens Type	3.6mm Fixed Lens with ICR	2.8 ~ 12mm DC Iris with ICR	2.8 ~ 12mm DC Iris with ICR	2.8 ~ 12mm DC Iris with ICR	2.8 ~ 12mm DC Iris with ICR
BLC	Yes	Yes	Yes	Yes	Yes
AWB	Yes	Yes	Yes	Yes	Yes
DNR	Yes	Yes	Yes	Yes	Yes
WDR	D-WDR	D-WDR	D-WDR	D-WDR	D-WDR
IR LED (units)	-	-	18	30	28
IR Distance	-	-	Up to 30m / 100ft. (depending on scene IR reflectivity)	Up to 30m / 100ft. (depending on scene IR reflectivity)	Up to 30m / 100ft. (depending on scene IR reflectivity)
Weather Resistance	-	-	-	IP66	IP67
Power Supply	12VDC	12VDC / 24VAC~	12VDC / 24VAC~	12VDC / 24VAC~	12VDC / 24VAC~
Max. Power Consumption	1.2W max.	12VDC : 1.6W max. 24VAC~ : 1.7W max.	12VDC : 3.7W max. 24VAC~ : 3.5W max.	12VDC : 9W max. 24VAC~ : 15W max.	12VDC : 9W max. 24VAC~ : 9.5W max.
Operating Temperature	-10°C~50°C / 14°F~122°F	-10°C ~ 50°C / 14°F ~ 122°F	-10°C ~ 50°C / 14°F ~ 122°F	-40°C ~ 55°C / -40°F ~ 131°F	-40°C ~ 55°C / -40°F ~ 131°F

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Motorized

Model Name	EBD930F	EBD935F	EZ930F	EZ950F	EZ940F
Pickup Device	SONY 1080p CMOS	SONY 1080p CMOS	SONY 1080p CMOS	SONY 1080p CMOS	SONY 1080p CMOS
Video Format	NTSC / PAL ( can be switched via OSD)	NTSC / PAL (can be switched via OSD)	NTSC / PAL ( can be switched via OSD)	NTSC / PAL (can be switched via OSD)	NTSC / PAL (can be switched via OSD)
Effective Pixels	1920 (H) x 1080 (V)	1920 (H) x 1080(V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)
Scanning System	Progressive Scan	Progressive Scan	Progressive Scan	Progressive Scan	Progressive Scan
Sensitivity	0 Lux with IR On	0 Lux with IR On	0 Lux with IR On	0 Lux with IR On	0 Lux with IR On
S/N Ratio	> 48dB (AGC off)	> 48dB (AGC off)	> 48dB (AGC off)	> 48dB (AGC off)	> 48dB (AGC off)
Electronic Shutter	Auto / Manual (x30 ~ 1/50,000) / Flk	Auto / Manual (x30 ~ 1/50,000) / Flk	Auto / Manual (x30 ~ 1/50,000) / Flk	Auto / Manual (x30 ~ 1/50,000) / Flk	Auto / Manual (x30 ~ 1/50,000) / Flk
Video Output	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω
Lens Type	3.6mm / 6mm Fixed lens with ICR	2.8 ~ 12mm DC Iris with ICR	2.8 ~ 12mm DC Iris with ICR	5 ~ 50mm DC Iris with ICR	DC Iris 2.8-12mm, Motorized Zoom Lens
BLC	Yes	Yes	Yes	Yes	Yes
AWB	Yes	Yes	Yes	Yes	Yes
DNR	Yes	Yes	Yes	Yes	Yes
WDR	D-WDR	D-WDR	D-WDR	D-WDR	D-WDR
IR LED (units)	24	36	80	8	8 Units 3G array IR LEDs
IR Distance	Up to 15m / 50ft. (depending on scene IR reflectivity)	Up to 30m / 100ft. (depending on scene IR reflectivity)	Up to 35m / 115ft. (depending on scene IR reflectivity)	Up to 50m / 165ft. (depending on scene IR reflectivity)	Up to 30m / 100ft. (depending on scene IR reflectivity)
Weather Resistance	IP66	IP66	IP66	IP66	IP66
Power Supply	12VDC	12VDC	12VDC / 24VAC~	12VDC / 24VAC~	12VDC / 24VAC~
Max. Power Consumption	2.5W max.	3.5W max.	12VDC : 12W max. 24VAC~ : 13.5W max.	12VDC : 15W max. 24VAC~ : 14.5W max.	12VDC : 14.6W max. 24VAC~ : 23.7W max.
Operating Temperature	-10°C ~ 50°C / 14°F ~ 122°F	-10°C ~ 50°C / 14°F ~ 122°F	-40°C ~ 50°C / -40°F ~ 122°F	-40°C ~ 50°C / -40°F ~ 122°F	-40°C ~ 50°C / -40°F ~ 122°F

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1080P



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eZ.HD Series

Model Name	ECZ930F	EQ900F	EM900FP1	EM900FP3	EM900FP4
Pickup Device	SONY 1080p CMOS	SONY 1080p CMOS	SONY 1080p CMOS		
Video Format	NTSC / PAL (can be switched via OSD)	NTSC / PAL (can be switched via OSD)	NTSC / PAL ( can be switched via OSD)		
Effective Pixels	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)		
Scanning System	Progressive Scan	Progressive Scan	Progressive Scan		
Sensitivity	0 Lux with IR On	0.01 Lux / F1.4	0.2 Lux		
S/N Ratio	> 48dB (AGC off)	> 48dB (AGC off)	> 48dB (AGC off)		
Electronic Shutter	Auto / Manual (x30 ~ 1/50,000) / Flk	Auto / Manual (x30 ~ 1/50,000) / Flk	Auto / Manual (x30 ~ 1/50,000) / Flk		
Video Output	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω		
Lens Type	3.6mm / 6mm Fixed lens with ICR	C / CS Mount (lens sold separately)	3.7mm conical / 3.7mm flat / 3.7mm cone		
BLC	Yes	Yes	Off / BLC / HS BLC Selectable		
AWB	Yes	Yes	Yes		
DNR	Yes	Yes	Yes		
WDR	D-WDR	D-WDR	D-WDR		
IR LED (units)	30	-	-		
IR Distance	Up to 15m / 50ft. (depending on scene IR reflectivity)	-	-		
Weather Resistance	IP66	-	-		
Power Supply	12VDC	12VDC / 24VAC~	12VDC		
Max. Power Consumption	3W max.	12VDC : 2W max. 24VAC~ : 1.8W max.	1.08W max.		
Operating Temperature	-10°C ~ 50°C / 14°F ~ 122°F	-10°C ~ 50°C / 14°F ~ 122°F	-10°C ~ 50°C / 14°F ~ 122°F		

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Model Name	EHS950F	EZS95 IF	EC900FIR	ECMD900Fi	EZW900F
Pickup Device	1/2.8" Sony Exmor CMOS	1/2.8" Sony Exmor CMOS	1/2.8" Sony IMX322 CMOS	1/2.8" Sony IMX322 CMOS	1/2.8" Sony IMX322 CMOS
Video Format	NTSC/PAL	NTSC/PAL	NTSC/PAL	NTSC/PAL	NTSC/PAL
Effective Pixels	1920(H) x 1080(V)	1920(H) x 1080(V)	1956(H) x 1266(V)	1956(H) x 1266(V)	1956(H) x 1266(V)
Scanning System	Progressive Scan	Progressive Scan	Progressive Scan	Progressive Scan	Progressive Scan
Sensitivity	Color: 1.0 lux; B/W: 0.5 lux	Color: 1.0 lux; B/W: 0.5 lux	0.0001 Lux with IR on	0.0001 Lux with IR on	0.0001 Lux with IR on
S/N Ratio	> 50dB (AGC off)	> 50dB (AGC off)	> 50dB (AGC off)	> 50dB (AGC off)	> 50dB (AGC off)
Electronic Shutter	Auto/Manual (1/50(60) ~ 1/50,000 sec)	Auto/Manual (1/50(60) ~ 1/50,000 sec)	Auto/Manual (1/50(60) ~ 1/50,000 sec)	Auto/Manual (1/50(60) ~ 1/50,000 sec)	Auto/Manual (1/50(60) ~ 1/50,000 sec)
Video Output	AHD: 1080p; Analog: CVBS	AHD: 1080p; Analog: CVBS	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω
Lens Type	2.8 - 12mm DC Auto Iris Megapixel Lens	2.8 - 12mm Motorized Megapixel Lens	2.9mm MegaPixel Lens	4.3mm MegaPixel Pinhole Lens	2.5mm MegaPixel Lens
BLC	Off/BLC/HSBLC	Off/BLC/HSBLC	Yes	Yes	Yes
AWB	ATW/AWC/Indoor/Outdoor/Man./AWB	ATW/AWC/Indoor/Outdoor/Man./AWB	Yes	Yes	Yes
DNR	Off/Low/Middle/High	Off/Low/Middle/High	Yes	Yes	Yes
WDR	D-WDR	D-WDR	D-WDR	D-WDR	D-WDR
IR LED (units)	24 IR LEDs	Two Large IR LEDs	30	24	24
IR Distance	23m	30m	30m	22m	25m
Weather Resistance	IP68	IP68	-	-	-
Power Supply	DC12V +/- 10%	DC12V +/- 10%	12VDC	12VDC	12VDC
Max. Power Consumption	Max 3.0 Watts with IR On	Max 4.0 Watts with IR On	Max 4.0 Watts with IR On; Min 1.0 Watts with IR Off	Max 3.9 Watts with IR On Min 1.2 Watts with IR Off	Max 3.0 Watts with IR On
Operating Temperature	-10 °C ~ 50 °C / 14 °F ~ 122°F	-10 °C ~ 50 °C / 14 °F ~ 122°F	-10 °C ~ 50 °C / 14 °F ~ 122°F	-10 °C ~ 50 °C / 14 °F ~ 122 °F	-10 °C ~ 50 °C / 14 °F ~ 122 °F

eZ.HD Series

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Model Name

AHD 1080p Speed Dome Camera

AHD 1080p Speed Dome Camera

	EPTZ9200	EPTZ9200i	EPTZ9300	EPTZ9300i
Horizontal Resolution	1952 × 1236, 2.41MP		1945 × 1109, 2.16MP	
Image Sensor	SONY 1080p CMOS		SONY 1080p CMOS	
Optical Zoom	20x		30x	
Lens	20x optical zoom, f=4.7mm to 94.0mm, F1.6 to F3.5		30x optical zoom, f=4.3mm to 129mm, F1.6 to F4.7	
Minimum Illumination	0.1 Lux 50 IRE (ICR OFF, IRIS OPEN, AGC MAX)		0.01 Lux 50 IRE (ICR OFF, IRIS OPEN, AGC MAX)	
Shutter Time	1/1 ~ 1/10,000sec.		1/1 ~ 1/10,000sec.	
Video Output	BNC, 1Vp-p, 75Ω		BNC, 1Vp-p, 75Ω	
S/N Ratio	50dB		50dB	
AWB	Yes		Yes	
BLC	Yes		Yes	
Scanning System	-		-	
Focus Control	One Push / Auto / Manual		One Push / Auto / Manual	
Horizontal Rotation Speed	0.01°/s ~ 360°/s (1 ~ 255 grade shift gears)		0.01°/s ~ 360°/s (1 ~ 255 grade shift gears)	
MANUAL Pan / Tilt Speed	Pan: 0.01° ~ 180°/s ; Tilt: 0.01° ~ 180°/s		Pan: 0.01° ~ 180°/s ; Tilt: 0.01° ~ 180°/s	
Position Accuracy	± 0.1°		± 0.1°	
Horizontal Rotation Range	360° unlimited rotation		360° unlimited rotation	
Tilt Rotation Range	180° pendulum motion (Auto Flip)		180° pendulum motion (Auto Flip)	
AUTO Pan Speed	1 ~ 255 grade available, 0.01°/s ~ 360°/s		1 ~ 255 grade available, 0.01°/s ~ 360°/s	
Dwell Time (2 points)	1 ~ 99 second available		1 ~ 99 second available	
Preset Positions	192 positions		192 positions	
Reposition Speed	1 ~ 255 grade available, 0.01°/s ~ 360°/s		1 ~ 255 grade available, 0.01°/s ~ 360°/s	
Dwell Time at Preset Position	1 ~ 99 second available		1 ~ 99 second available	
Tour	16 groups		16 groups	
Tour Point per Group	16 preset positions		16 preset positions	
Pattern	4 patterns with 90sec. long each		4 patterns with 90sec. long each	
Alarm	4 in 2 out with tour / position AUTO triggering		4 in 2 out with tour / position AUTO triggering	
Communication Speed	1200 / 2400 / 4800 / 9600bps		1200 / 2400 / 4800 / 9600bps	
Built-in Protocols	AUTO / EVF/ Pelco-P / Pelco-D / Plus-D / A-Type / Panasonic		AUTO / EVF/ Pelco-P / Pelco-D / Plus-D / A-Type / Panasonic	
Speed Dome ID Address	0 ~ 255		0 ~ 255	
DNR	Yes		Yes	
D-WDR	Yes		Yes	
RS-485	Yes		Yes	
Weather Resistance	Outdoor (IP66)	Indoor	Outdoor (IP66)	Indoor
Power Supply	24VAC~		24VAC~	
Max. Power Consumption	30W		30W	
Operating Temperature	-30° C ~ 50° C ≤ 95% / -22° F ~ 122° F ≤ 95%		-30° C ~ 50° C ≤ 95% / -22° F ~ 122° F ≤ 95%	
Others	Privacy Mask / Motion Detection		Privacy Mask / Motion Detection	

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eZ.HD Series



# Multi-Function Conjunction Box



Model Name	EPTZ-PBOX (For all EPTZ / EPN models)
Weather Resistance	Yes
Vandal Resistance	Yes
Power Source	2 types: 100 - 120VAC~ or 220 - 240VAC~
Power Output	24VAC~
Max. Power Consumption	3.5amps
Dimensions (W x D x H)	250 x 260 x 85mm / 9.8" x 10.2" x 3.3"
Weight	4.08kg / 9lb ; 4.54kg / 10lb (with 1 ch. encoder)

EverFocus EPTZ-PBOX supports a wide variety of EPTZ / EPN indoor and outdoor mounting accessories. EPTZ-PBOX provides enhanced durability and eliminates complicated cabling in any location.

Compatible with PTZ pole mount

EPTZ series Speed Dome with EPTZ-PBOX

EPTZ-PBM

EPTZ-PLM

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Compatible with PTZ Corner mount

EPTZ series Speed Dome with EPTZ-PBOX

EPTZ-FCM

EPTZ-CNM

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Compatible with PTZ wall mount

EPTZ series Speed Dome

EPTZ-PBOX

<p>EPTZ / EPN Standard Outdoor Housing (with sun shield)</p> <ul style="list-style-type: none"> <li>Compatible with EPTZ-SSM (outdoor sun shield), EPTZ-WMB (wall mount bracket), EPTZ-CNM (corner mount adapter), EPTZ-PLM (pole mount adapter), EPTZ-PBOX (multi-function conjunction box) for diverse ceiling and wall mounts</li> <li>IP66 Rating</li> <li>Polycarbonate dome cover (clear / smoked / mirror)</li> <li>Aluminum die-cast housing</li> </ul>	<p>EPTZ / EPN Standard Outdoor Housing (without sun shield)</p> <ul style="list-style-type: none"> <li>Compatible with EPTZ-SSM (outdoor sun shield), EPTZ-WMB (wall mount bracket), EPTZ-CNM (corner mount adapter), EPTZ-PLM (pole mount adapter), EPTZ-PBOX (multi-function conjunction box) for diverse ceiling and wall mounts</li> <li>IP66 Rating (Must shield with EPTZ-SSM when exposed to sunlight)</li> <li>Polycarbonate dome cover (clear / smoked / mirror)</li> <li>Aluminum die-cast housing</li> </ul>	<p>EPTZ / EPN Standard Indoor Housing</p> <ul style="list-style-type: none"> <li>Compatible with EPTZ-CMB (concrete ceiling mount adapter), EPTZ-CLM (ceiling pendent mount bracket), EPTZ-ICMB (in-ceiling flush mount bracket) for diverse ceiling and wall mounts</li> <li>Polycarbonate dome cover</li> <li>Aluminum die-cast housing</li> </ul>	
<p>EPTZ-CMB Indoor Concrete Ceiling Mount Adapter (EPTZ / EPN Indoor only)</p> <ul style="list-style-type: none"> <li>Ceiling mount adapter for indoor EPTZ / EPN</li> <li>Aluminum die-cast housing</li> </ul>	<p>EPTZ-CNM Corner Mount Adapter (For all EPTZ / EPN models)</p> <ul style="list-style-type: none"> <li>Compatible with EPTZ-WMB and EPTZ / EPN</li> <li>Stainless steel</li> </ul>	<p>EPTZ-ICMB Indoor In-Ceiling Mount Bracket (EPTZ / EPN Indoor only)</p> <ul style="list-style-type: none"> <li>Can be installed as flush &amp; recessed ceiling mounting</li> <li>Aluminum die-cast housing</li> <li>Plastic decorative flange</li> </ul>	<p>EPTZ-SSM Outdoor Sun Shield (EPTZ / EPN Outdoor only)</p> <ul style="list-style-type: none"> <li>Outdoor housing for EPTZ / EPN</li> <li>Aluminum die-cast housing</li> </ul>
<p>EPTZ-PLM Pole Mount Adapter (For all EPTZ / EPN models)</p> <ul style="list-style-type: none"> <li>Compatible with EPTZ-WMB and EPTZ / EPN</li> <li>Stainless steel</li> </ul>	<p>EPTZ-WMB Wall Mount Bracket (For all EPTZ / EPN models)</p> <ul style="list-style-type: none"> <li>Compatible with EPTZ / EPN</li> <li>Waterproof with aluminum die-cast housing</li> </ul>	<p>EPTZ-CLM Indoor Ceiling Pendent Pole Mount Bracket EPTZ-BKAGR Wall Mount Bracket Adapter (EPTZ / EPN Indoor only)</p> <ul style="list-style-type: none"> <li>Shall be together with top housing adapter to mount standard indoor housing on ceiling</li> <li>Aluminum die-cast housing</li> </ul>	

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7" AHD/TVI/CVBS Monitor



5.6" Color TFT LCD Test Monitor & Service Kit



Model Name	EN320	EN200 / EN220
Display Resolution (H) x (V)	1024 x 600	-
Dot Pitch (W) x (H)	0.05 x 0.15mm	-
Brightness	500cd/m <sup>2</sup>	270cd / m <sup>2</sup>
Contrast Ratio	700 : 1	EN200 / EN222
Video In	AHD / TVI /VGA / CVBS	-
Video Out	CVBS	-
Power Input	12VDC / 1A ,12W	-
Operation Setting	Chinese / English OSD Menu	-
Power Adapter	12VDC / 1A	-
Operating Temperature	0° C ~ 50° C / 32° F ~ 122° F	0° C ~ 60° C / 32° F ~ 140° F
Sound Input	-	200mW (built-in 4cm speaker)
Terminal Input	-	Power,Video & Audio Input
Video Input	-	0.75 Vp-p~1 Vp-p
Audio Input	-	50mV min., Stereo In
Stereo Output	-	Ear phone
Max. Power Consumption	-	12VDC, 600mA (8W)
Power Source	-	9 ~ 20VDC
Dimensions (W x D x H)	250 x 158 x 50mm /9.84" x 6.22" x 1.97"	162 x 54 x 133mm / 6.4" x 2.1" x 5.2"
Battery	Built-in 7.4V Li-Polymer, 5200mAh	Optional/ Standard
Weight	940g / 2.07lb	

Multi-Function Control Keyboard



Model Name	EKB500	EKB200
Interface	RS-485	USB 1.1
PTZ Function Key	-	4 keys, IRIS+, IRIS-, Focus+, Focus-
Assignable Key		12 keys
Default Protocol	EverFocus, ED2200/2250 (Samsung Electr.), Pelco-D, Pelco-P, Panasonic, LG	USB HID class
USB Cable (Length)	-	1.8m / 6ft.
USB Cable (Color)	-	Black
Mounting Method	-	Desktop, Panel
Power Source	12VDC, 10W	USB Bus Power
Max. Power Consumption	-	80mA
Operating Temperature	0° C~40° C / 32° F ~ 104° F	0° C ~ 50° C / 32° F ~ 122° F
Device Control	PTZ Speed Domes, DVRs and Monitors	-
Protocols	Pelco-D, Pelco-P, EverFocus Enhanced Protocols	-
Remote Control	RS-232 / RS-485	-
Integration	Up to 8 keyboard cascading connection	-

Accessories

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### Other Adapter / Junction Box



Model Name	PBOX-A30W
Description	Junction Box 139 x 33.5mm / 5.47" x 1.32"
Camera	EHD930F

### Dome Camera Brackets



Model Name	BA-EHD+W (L x H)
Description	Aluminum alloy stent / Apple white Max. load: 79kg / 174.17lb 178 x 28.4mm / 7.01" x 1.12"
Camera	EHD930F / EHD935F

### Box Camera Brackets



### Bullet Camera Brackets



Model Name	BA-01 (W x H)	BA-05 (W x H)	BA-EZN
Description	Mounting bracket. Aluminum. Max. load: 3kg / 6.6lb 57 x 165mm / 2.2" x 6.5"	Mounting bracket. Aluminum. Max. load: 10kg / 22lb 84 x 294mm / 3.3" x 11.6"	EZN small bullet bracket accessory. Aluminum. Max. load: 990g / 2.18lb 137 x 105.5 x 105mm / 5.39" x 4.15" x 4.13"

### IR Corrective Megapixel Lens



Model Name	EFV-M1600DCIR	EFV-M1600IR	EFV-M1803DCIR	EFV-M1803IR	EFV-M0940DCIR	EFV-M0940IR	EFV-M2808DCIR	EFV-M2808IR	EFV-M2806DCIR	EFV-M0880DCIR
Megapixel	5MP	5MP	5MP	5MP	5MP	5MP	3MP	3MP	3MP	1.5MP
Description	1/2.5" 1.67mm, DC-IRIS F1.8, IR CS Mount	1/2.5" 1.67mm, Manual IRIS F1.8, IR CS Mount	1/2" 1.8-3mm, DC-IRIS F1.8, IR CS Mount	1/2" 1.8-3mm, Manual IRIS F1.8, IR CS Mount	1/2" 9-40mm, DC-IRIS F1.5, IR CS Mount	1/2" 9-40mm, Manual IRIS F1.5, IR CS Mount	1/3" 2.8-8mm, DC-IRIS F1.2, IR CS Mount	1/3" 2.8-8mm, Manual IRIS F1.2, IR CS Mount	1/3" 2.8-6mm, DC-IRIS F1.3, IR CS Mount	1/2" 8-80mm, DC-IRIS F1.6, IR C Mount

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1080P

Model Name	EMV400S FHD	EMV400SSD	EMV400 FHD
Number of Channels	4 CH	4CH	4 CH (Analog SD/HD)
Video Compression	H.264	H.264	H.264
Audio Inputs / Outputs	4 / 1 (RCA)	4 / 1 (RCA)	4 / 1 (RCA)
Video Output	Main Monitor:VGA x 1 Call Monitor: BNC x 1	Main Monitor:VGA x 1 Call Monitor: BNC x 1	Main Monitor: BNC x 1 / RCA x 1 / VGA x 1 Call Monitor: BNC x 1
Recording Resolution	1080p / 720p / 960H / DI / CIF / QCIF	1080p / 720p / 960H / DI / CIF / QCIF	1080p / 720p / 960H / DI / 2CIF / CIF / QCIF
Recording Rate	30fps/CH (NTSC), 25fps/CH (PAL)	30fps/CH (NTSC), 25fps/CH (PAL)	NTSC: 15fps @ 1080p ; 30fps @ all other res. PAL: 12.5fps @ 1080p ; 25fps @ all other res.
Pre Alarm Recording	Yes	Yes	Yes
Playback Mode	Duplex	Duplex	Duplex
Alarm Inputs / Outputs	Yes (additional External I/O Box is required)	Yes (additional External I/O Box is required)	4 / 2
Video Loss Detection	Yes	Yes	Yes
Event Alarm	Yes	Yes	Yes
Networking	RJ-45 Port x 1 (10/100M)	RJ-45 Port x 1 (10/100M)	RJ-45 port x 1 (10/100/1000M)
Wireless	Optional	Optional	Optional
3G Network Support	Optional	Optional	Optional
GPS Function	Optional	Optional	Optional
Storage	SD Card x 1 (SDHC / SDXC, max. 128GB)	SD Card x 1 (SDHC / SDXC, max. 128GB) / 2.5" SSD x 1 (max. 4TB)	HDD: 2.5" HDD x 1 (max 2TB) SD Card: SD/SDHC Card (Max.128 GB) – for alarm event backup recording only
Interfaces	RJ-45 x 1, USB2.0 x 1, External I/O Port x 1	RJ-45 x 1, USB2.0 x 1, External I/O Port x 1	RJ-45 x 1, RS-232 x 3, RS-485 x 1, USB x 3
G Sensor	Yes	Yes	Yes
PTZ control	Yes	Yes	Yes
Power Source	8 ~ 35VDC 10W	8 ~ 35VDC 10W	9 ~ 36VDC 20W / 60W (Heater On)
Operating Temperature	-40° C ~ 55° C / -40° F ~ 131° F	-40° C ~ 55° C / -40° F ~ 131° F	-40° C ~ 55° C / -40° F ~ 131° F
Dimensions (W x D x H)	131 x 171.1 x 38.4mm / 5.16" x 6.74" x 1.51" (without brackets)	131 x 166.4 x 49.7mm / 5.16" x 6.55" x 1.96"	With Z-Type Bracket : 272 x 199 x 73mm / 10.71" x 7.8" x 2.87" With Anti-Vibration Bracket : 229.6 x 218 x 63.4mm / 9.04" x 8.58" x 2.5"
Weight	690g / 1.52lb (without brackets)	870g / 1.92lb (without brackets)	With Z-Type Bracket: 2.15kg / 4.74lb With Anti-Vibration Bracket: 2.6kg / 5.73lb
Certificates	CE, FCC	CE, FCC	CE, FCC, E-Mark, EN50155, SAE-J1455 (shock & vibration only)

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Vehicle Surveillance



	1080P	1080P	Hybrid	Hybrid	Hybrid
Model Name	EMV800 FHD	EMV1200 FHD	EMV401	EMV801	EMV1601
Number of Channels	8 CH	12 CH	4 CH (Analog SD + IP)	8 CH (Analog SD + IP)	16 CH (Analog SD + IP: Max. 8)
Video Compression	H.264		H.264		
Audio Inputs / Outputs	8 / 1 (RCA)		4 / 1 (RCA)	8 / 1 (RCA)	16 / 1 (RCA)
Video Output	Main Monitor: HDMI x 1 / VGA x 1 Call Monitor: BNC x 1 / RCA x 1		Main Monitor: BNC x 1 / RCA x 1 / VGA x 1 Call Monitor: BNC x 1		
Recording Resolution	1080p / 720p / D1 / CIF / 2CIF / QCIF		1080p / 720p / 960H / D1 / 2CIF / CIF / QCIF		
Recording Rate	15fps @ 1080p @ all other resolutions (NTSC), 12.5fps @ 1080p @ all other resolutions (PAL)		Analog: 120fps NTSC / 100fps PAL IP: 30fps/ch @ resolution of 1080p (Max: 120fps)	Analog: 240fps NTSC / 200fps PAL IP: 30fps/ch @ resolution of 1080p (Max: 240fps)	Analog: 480fps NTSC / 400fps PAL IP: 30fps/ch @ resolution of 1080p (Max: 240fps)
Pre Alarm Recording	Yes		Yes		
Playback Mode	Duplex		Duplex		
Alarm Inputs / Outputs	8 / 2		4 / 2	8 / 2	16 / 2
Video Loss Detection	Yes		Yes		
Event Alarm	Yes		Yes		
Networking	RJ-45 Port x 1 (10/100/1000M)		RJ45 socket x 2 (1GB)		
Wireless	Optional		Optional		
3G Network Support	Optional		Optional		
GPS Function	Optional		Optional		
Storage	2.5" HDD x 1 (Max.2TB) or SSD SD/SDHC Card (Max. 128 GB) – for alarm event backup recording only		HDD: 3.5" HDD x 1 (max 4TB) or 2.5" HDD x 1 (max 1TB) SD/SDHC Card (Max. 128 GB) – for alarm event backup recording only		
Interfaces	RJ-45 x 1, RS-232 x 3, RS-485 x 1, USB x 3, USB x 1 (M12)		RS-232 x 1, RS-485 x 1, USB x 3		
G Sensor	Yes		Yes		
PTZ control	Yes		Yes		
Power Source	9-36 VDC 20W / 60W (Heater On)		10 ~ 32VDC 20W / 60W (Heater On)		
Operating Temperature	-40° C ~ 55° C / -40° F ~ 131° F		-40° C ~ 55° C / -40° F ~ 131° F		
Dimensions (W x D x H)	With Z-Type Bracket: 272 x 199 x 73mm / 10.71" x 7.8" x 2.87" With Anti-Vibration Bracket: 229.6 x 218 x 63.4mm / 9.04" x 8.58" x 2.5"		210 x 260 x 70mm / 8.27" x 10.22" x 2.76"		
Weight	With Z-Type Bracket: 2.15kg / 4.74lb With Anti-Vibration Bracket: 2.6kg / 5.73lb		3.65kg / 8.05lb (with mounting bracket) 3.2kg / 7.05lb (without mounting bracket)		
Certificates	CE, FCC, E-Mark, EN50155, SAE-J1455 (shock & vibration only)		CE, FCC, EN50155, E-Mark		

### Vehicle DVRs Accessories (Optional)

GPS Receiver



BR355 EMG110



3G Module



4G Module



WiFi Module



Aux Box  
Led Indicator Box



fireproof box

Vehicle Surveillance

\*Additional power regulator and power protection devices are required when installed on a vehicle

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Model Name	IP	
	EDN228	EBN268
Megapixel	2MP	2MP
Image Sensor	Sony Progressive Scan CMOS	Sony Progressive Scan CMOS
Lens	3.6 / 6mm Fixed Lens	3.6 / 6mm Fixed Lens
Minimum Illumination	Color: 0.2 Lux @ F1.4 B/W: 0.05 Lux @ F1.4 0 Lux @ F1.4 (IR LEDs on)	Color: 0.2 Lux @ F1.4 B/W: 0.05 Lux @ F1.4 0 Lux @ F1.4 (IR LEDs on)
IRIS	Fixed IRIS	Fixed IRIS
Shutter Time	1/7.5 ~ 1/15,000sec.	1/7.5 ~ 1/10,000sec.
Camera Angle Adjustment	-	-
Video Compression	H.264 / M-JPEG	H.264 / M-JPEG
Max. Video Resolution	1920 x 1080	1920 x 1080
Max. Frame Rate	30fps	30fps
S/N Ratio	> 50dB	> 50dB
WDR	Yes	Yes
3DNR	Yes	Yes
Audio Compression	-	-
Alarm Input / Output	-	-
IR LED (units)	-	36
IR Distance	-	Up to 30m / 98.4ft.
Weather Resistance	-	IP66
Vandal Resistance	-	-
On-board Storage	Micro SD / SDHC slot	-
Power Supply	12VDC / PoE (IEEE802.3af Class 3)	12VDC / PoE (IEEE802.3af Class 3)
Max. Power Consumption	12VDC 3.3W / PoE 3.75W	12VDC 6W / PoE 7W
Operating Temperature	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F
Others	EN50155	EN50155



1080P



1080P



Model Name	Analog		
	EMW935F	EMD935F	EMB935F
Horizontal Resolution	1080P	1080P	1080P
Image Sensor	1080p CMOS Sensor	1080p CMOS sensor	1080p CMOS Sensor
Image Pixels	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)
Lens	3.6mm	3.6mm	3.6mm
Minimum Illumination	0 Lux with IR on	0 Lux with IR on	0 Lux with IR On
Shutter Time	Auto/Manual (x30~1/50,000) / Flk	Auto/Manual (x30~1/50,000) / Flk	Auto / Manual (x30 ~ 1/50,000) / Flk
Video Output	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω	BNC 1.0Vp-p 75Ω
S/N Ratio	> 48dB (AGC off)	> 48dB (AGC off)	>48dB (AGC off)
AWB	Yes	Yes	Yes
IR LED (units)	12	6	10
IR Distance	10m / 33ft.	10m / 33ft.	10m / 33ft
Viewing Direction IR LEDs Direction	-	-	-
Weather Resistance	IP67	IP66	IP67
Vandal Resistance	Yes	Yes	Yes
Max. Power Consumption	12VDC 3W	12VDC 1.5W	12VDC 3W
Operating Temperature	-10°C ~ 50°C / 14°F ~ 122°F	-10°C ~ 50°C / 14°F ~ 122°F	-10°C ~ 50°C / 14°F ~ 122°F
Others	Privacy Mask / Motion Detection	Privacy Mask / Motion Detection	Privacy Mask / Motion Detection

Vehicle Surveillance

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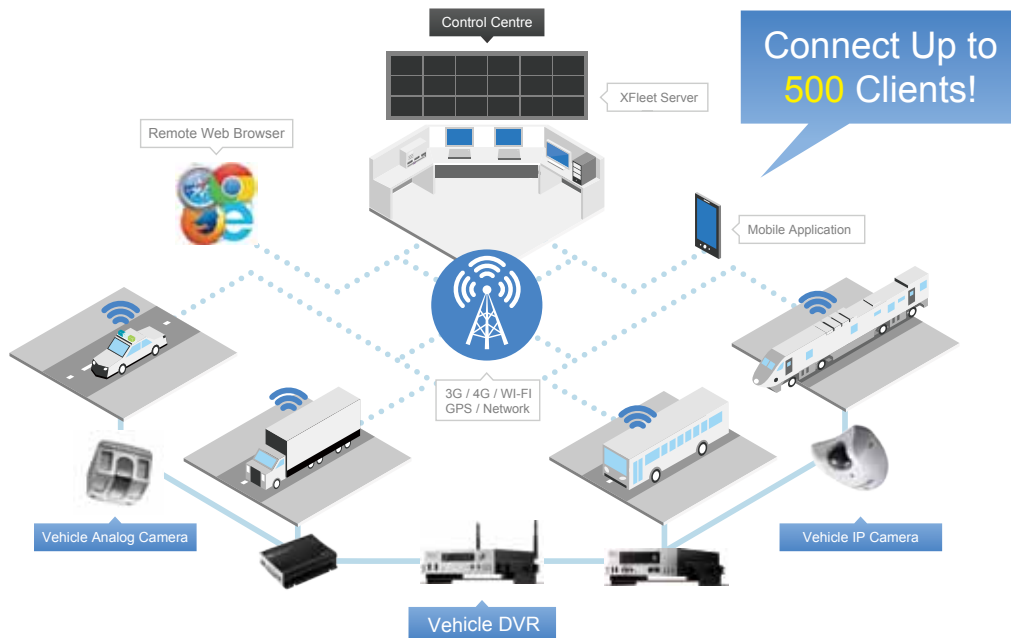
## Introduction

Xfleet is a Web-based fleet management system which integrates GPS positioning, 3G/4G mobile wireless communication and GIS (Geographic Information System) techniques, allowing users to easily track, monitor and manage any type of fleet vehicles on a Web browser anywhere and anytime.

With Xfleet, not only can you reduce overall costs by effectively utilizing resources such as vehicles, fuel, and manpower, but you can improve the management efficiency and business performance by keeping and analyzing the historical records (graphical reports) of the vehicle data as needed.

## Features

- Web interface
- Connect up to 500 clients
- Multiple map types supported
- Real-time GPS tracks and playback
- 64-channel real-time live view
- 16-channel recording
- playback
- 3-axis accelerometer (G Sensor)
- Geo-Fence
- Idle time detection
- Over-speed detection
- Landmark Setting
- Smart auto backup
- Remote archive
- MDVR system status
- Graphical analysis report



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Model Name

Model Name	EBC980R / M Finger Vein Single-door Standalone Model	EFC301R IP @ Door Single-door Standalone Model	EFC302 NAV 2 to 8-doors Network Access Controller	EBC910R / M NAV Fingerprint Access Control Standalone Model
Maximum Number of Cards	6,000	100,000	100,000	10,000
Fingerprint Vein	12,000	-	-	20,000
Maximum Number of Log Entries	1,000,000	1,000,000	1,000,000	1,000,000
Number of Card Readers Supported	1	N/A	2 (expandable to 8)	1
Operating System	Linux embedded database with 512M NAND Flash, 64M DDR SDRAM	Linux embedded database with 512M memory	Linux embedded database with 512M memory	Linux embedded database with 512M memory
Web-based Functions	Configuration, monitoring and management	Configuration, monitoring and management	Configuration, monitoring and management	Configuration, monitoring and management
Identification Time	1 : 1 ≤ 1sec; 1 : 2000 : ≤ 1.5sec.	N/A	N/A	1 : 1 : < 1sec ; 1 : N : < 2sec
Error Rate	< 0.0000067%	N/A	N/A	0.00001%
Automatic Finger Detection Feature	N/A	N/A	N/A	Yes
Number of Controllable Doors	1	1	2 (expandable to 8)	1
Card Reader Signal Format	Wiegand adaptive or RS232	Wiegand adaptive or RS232	Wiegand adaptive or RS232	Wiegand 26 or RS232
Alarm Inputs	1 channel for fire alarm, 1 channel can be configured as a general alarm	1 channel of Alarm Input (may be configured as a general alarm or fire alarm)	2 ~ 10 channels, expandable (may be configured as a general alarm or fire alarm)	5 channels (may be configured as a general alarm or fire alarm)
Alarm Outputs	1 channel	1 channel	2 ~ 18 channels, expandable	1 channel
Communications Interface	10 / 100MB Ethernet with RJ-45 port, TCP / IP	10 / 100MB Ethernet with RJ-45 port	10 / 100MB Ethernet with RJ-45 port	10 / 100MB Ethernet with RJ-45 port
Programmable Time Intervals	10 intervals per day with 1 minute minimum per interval	10 intervals per day with 1 minute minimum per interval	10 intervals per day with 1 minute minimum per interval	10 intervals per day with 1 minute minimum per interval
Programmable Dates	3 types available with up to 255 types of date configurations	3 types available with up to 384 types of date configurations	3 types available with up to 384 types of date configurations	3 types available with up to 384 types of date configurations
Group	2048	2048	2048	2048
Multiple Card Access	Yes	Yes	Yes	Yes
Door Area Interlocking	Yes	N/A	Yes	Yes
Expiration of Card	Yes	Yes	Yes	Yes
Daylight Savings Time	Yes	Yes	Yes	Yes
Anti-Passback	Yes	N/A	Yes	Yes
Anti-Duress	Yes	Yes	Yes	Yes
Display	OLED, 4 × 8 Chinese, 4 × 16 English / Russian	Backlit, 4 × 8 Chinese, 4 × 16 English / Russian	Backlit, 2 × 9 Chinese, 2 × 18 English / Russian	Backlit, 2 × 10 Chinese, 2 × 20 English / Russian
Door Relay Current	5A	5A	5A	5A
Alarm Relay Current	2A	2A	2A	2A
Power	PoE power supply · 12VDC ± 15%, Max. 1A	PoE power supply · 12VDC ± 15%, Max. 1A	12VDC ± 15%, Max. 2A	PoE power supply, 12VDC ± 15%, Max. 1A
Dimensions (L × W × H)	180 × 145 × 87mm 7.09" × 5.71" × 3.43"	Control unit : 205 × 100 × 26mm / 8.07" × 3.94" × 1.02" Card reader unit : 123 × 77 × 20mm / 4.84" × 3.03" × 0.79"	300 × 216 × 33mm 11.81" × 8.5" × 1.3"	179.6 × 137.5 × 48mm 7.07" × 5.41" × 1.89"

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Model Name	EFC101R / M Flex Single Door Access Controller	EFC201R / M Flex II Single-door Split Model	EFC202 Flex II 2 to 8-doors Access Controller
Maximum Number of Cards	10,000	5,000	50,000
Maximum Number of Log Entries	37,000	32,000	17,000
Number of Card Readers Supported	1	2	2 (expandable to 8)
Card Format	ID card (EM) / Mifare card	ID card (EM) / Mifare card	ID card (EM) / Mifare card
Maximum Number of Connected Control Units	127, with unlimited expandability	127, with unlimited expandability	127, with unlimited expandability
Fingerprint Identification Time	N/A	N/A	N/A
Error Rate	N/A	N/A	N/A
Automatic Finger Detection Feature	N/A	N/A	N/A
Number of Controllable Doors	1	1	2 (expandable to 8)
Card Reader Signal Format	N/A	Wiegand adaptive or RS232	Wiegand adaptive or RS232
Alarm Inputs	N/A	1 channel for fire alarm, 4 channels for controlled areas alarm inputs	1 channel for fire alarm, 1 channel for general alarm and 8 channels for external alarm inputs
Alarm Outputs	N/A	2 channels for alarm outputs	Install 4 door modules and 1 alarm module for a maximum of 18 channels of alarm outputs
Communications Interface	RS485 / 9600bps	RS232 or RS485 / 9600bps	RS232 or RS485 / 9600bps
Programmable Time Intervals	10 intervals per day with 1 minute minimum per interval	10 intervals per day with 1 minute minimum per interval	10 intervals per day with 1 minute minimum per interval
Programmable Dates	3 types available with up to 384 types of date configurations	3 types available with up to 384 types of date configurations	3 types available with up to 384 types of date configurations
Group	256	256	2048
Multiple Card Access	N/A	Yes	Yes
Door Area Interlocking	N/A	N/A	Yes
Expiration of Card	Yes	Yes	Yes
Daylight Savings Time	N/A	Yes	Yes
Anti-Passback	N/A	Yes	Yes
Anti-Duress	Yes	Yes	Yes
LCD Display	Backlite, 4 x 8 Chinese, 4 x 16 English	Backlite, 4 x 8 Chinese, 4 x 16 English / Russian	Backlite, 2 x 9 Chinese, 2 x 18 English / Russian
Door Relay Current	4A	5A	5A
Alarm Relay Current	N/A	2A	2A
Power	12VDC ± 15%, Max. 1A	12VDC ± 15%, Max. 1A	12VDC ± 15%, Max. 2A
Dimensions (L x W x H)	123 x 77 x 27mm 4.84" x 3.03" x 1.06"	Control unit: 205 x 100 x 26mm / 8.07" x 3.94" x 1.02" Card reader unit: 123 x 77 x 20mm / 4.84" x 3.03" x 0.79"	300 x 216 x 33mm 11.81" x 8.5" x 1.3"

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Model Name	ERK971 / 981 Touch Panel Card Reader	ERL971 / 981 ID / Mifare Touch Panel OLED Card Reader
Frequency	125KHz/13.56MHz	125KHz/13.56MHz
Card Format	ID card / Mifare card	ID card / Mifare card
Reading Distance	5 ~ 10cm	5 ~ 10cm
Read / Write Time	200ms	200ms
Output Format	Wiegand 26 or RS232 formats	Wiegand 26 or RS232 formats
Audio	Built-in buzzer, 2kHz	Built-in buzzer, 2kHz
OLED Display	N/A	4 x 8 Chinese, 4 x 16, English / Russian
Light Indication	3 LEDs, Red: Power supply, Green: Card being read, Yellow: External control line	3 LEDs, Red: Power supply, Green: Card being read, Yellow: External control line
Power	9 ~ 15VDC	9 ~ 15VDC
Current	150mA	170mA
Working Temperature	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F
Dimensions (L x W x H)	123 x 77 x 21mm / 4.85" x 3.03" x 0.85"	123 x 77 x 21mm / 4.85" x 3.03" x 0.85"
Tamper-proof switch	Yes, normally close	Yes, normally close
Interface	9-pin cable	9-pin cable
Keyboard	3 x 4	3 x 4

### ERK971 / 981 Features

- Streamline design and supports touch panel function
- Wiegand 26 or RS232 data output format
- 3 LED indicator lights
- 50cm-long cable enables easier installation
- 3 x 4 smart touch panel
- Equipped with built-in buzzer
- TVS provides protection against transient absorption power up to 500W

### ERL971 / 981 Features

- Streamline design and supports touch panel function
- Support OLED display
- Wiegand 26 or RS232 data output format
- 3 LED indicator lights
- Support Chinese, English, and Russian display: 4 x 8 Chinese, 4 x 16 English, 4 x 16 Russian (must be used in conjunction with Flex Series or NAV Series controllers)
- 50cm-long cable enables easier installation
- 3 x 4 smart touch panel
- Equipped with built-in buzzer
- TVS provides protection against transient absorption power up to 500W

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## Card Reader



Model Name	ERR871 / 881 ID / Mifare Card Reader	ERK871 / 881 ID / Mifare Keyboard Card Reader	ERM871 / 881 ID / Mifare Slender Card Reader	ERL871 / 881 ID / Mifare LCD Keyboard Card Reader
Frequency	125KHz/13.56MHz	125KHz/13.56MHz	125KHz/13.56MHz	125KHz/13.56MHz
Card Format	ID card / Mifare, Felica card	ID card / Mifare, Felica card	ID card / Mifare card	ID card (EM) / IC card
Reading Distance	5 ~ 10cm	5 ~ 10cm	5 ~ 10cm	5 ~ 10cm
Read / Write Time	200ms	200ms	200ms	200ms
Output Format	Wiegand 26 or RS232 formats	Wiegand 26 or RS232 formats	Wiegand 26 or RS232 formats	Wiegand 26 or RS232 formats
Audio	Built-in buzzer, 2kHz	Built-in buzzer, 2kHz	Built-in buzzer, 2kHz	Built-in buzzer, 2kHz
Display	N/A	N/A	N/A	Backlit, 4 x 8 Chinese, 4 x 16, English / Russian
Light Indication	3 LEDs, Red: Power supply, Green: Card being read, Yellow: External control line	3 LEDs, Red: Power supply, Green: Card being read, Yellow: External control line	3 LEDs, Red: Power supply, Green: Card being read, Yellow: External control line	3 LEDs, Red: Power supply, Green: Card being read, Yellow: External control line
Power	9 ~ 15VDC	9 ~ 15VDC	9 ~ 15VDC	9 ~ 15VDC
Current	150mA	150mA	150mA	160mA
Working Temperature	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F	-10° C ~ 50° C / 14° F ~ 122° F
Dimensions (L x W x H)	123 x 77 x 19mm / 4.85" x 3.03" x 0.76"	123 x 77 x 21mm / 4.85" x 3.03" x 0.85"	140 x 40 x 24mm / 5.52" x 1.58" x 0.95"	123 x 77 x 21mm / 4.85" x 3.03" x 0.85"
Tamper-proof switch	Yes, normally close	Yes, normally close	Yes, normally close	Yes, normally close
Interface	9-pin cable	9-pin cable	9-pin cable	9-pin cable
Keyboard	N/A	3 x 4	N/A	3 x 4
Certificates	CE, FCC, UL / N/A	CE, FCC, UL / N/A	CE, FCC, UL / N/A	N/A

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## ENS2000

NAV Series WEB Network Access Control Management Software



### Features

- Web-based networks, which enable cross-network and cross-regional control and administration via Wide Area Network and the Internet
- Independently operating hierarchical structure design may be employed for the terminal and stations to achieve more stable system operation
- User-friendly real-time electronic map displays for door and controlled areas
- Excellent user interface design for easy operation
  - All-new graphical icon designs
  - Windows Windows-style icon designs
- Support arbitrary resizing of windows and customized menus
- Support anti-duress password access function
- Support multiple languages such as simple-Chinese, traditional-Chinese, English, Turkey, Russian, and French.
- Quick configuration for entrances / exits, alarm zones, card readers, etc.
- Support multiple shifts and attendance management for multi-day shifts
- Attendance management functions are practical, easy-to-use, and contain a wide range of feature
- Administer ELA82x, ELA85x, Flex I, Flex II, and NAV series of access controllers

## EFS2000

Access Control Management Software Standalone Edition



### Features

- Support for various database interfaces: MS SQLServer, Oracle, Access, and MySQL
- Capable of switching between any two types of databases
- Support database backup / restore
- Excellent user interface design for easy operation
  - All-new graphical icon designs
  - Vista-style icon designs
- Support multiple languages
- User-friendly real-time electronic map displays for door and controlled areas
- Support anti-duress password access function
- Support arbitrary resizing of window and operating area
- Quick configuration for entrances / exits, alarm zones, card readers, etc.
- Practical and easy-to-operate attendance management functions
- Administer ELA82x, ELA85x, Flex I, Flex II and NAV series of access controllers

## Mobile Access

Advanced Mobile Access Control System for Your Smart Phone

### Features

- iOS, Android apps available
- Support real-time event logging
- Easily manage and search through attendance etc.
- Controller, Door and Alarm real-time status display
- Provide real-time alarm features
- User friendly design









## Your Safety, Our Focus

"Your Safety, Our Focus" is our motto and defines what EverFocus stands for. Our vision is to bring safety to our life through innovative ideas and advanced technology in order to create a safer world for everyone with our surveillance products.

Our mission is to focus on excellence in our product and services; provide rapid response with optimal solution to meet customers' satisfaction, and continue to create value with our core competence in Safety and Information Technology. We are focusing on creating a safe environment in various vertical markets by providing the industry with great products, and on innovation solutions. When it comes to security equipment, go with the name you trust; go with the name that focused on your safety. Thank you for your continued support. We look forward to serve all of your security needs for years to come.



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