



IP Surveillance

Security Monitoring with Total IP Solution



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IP Surveillance Products

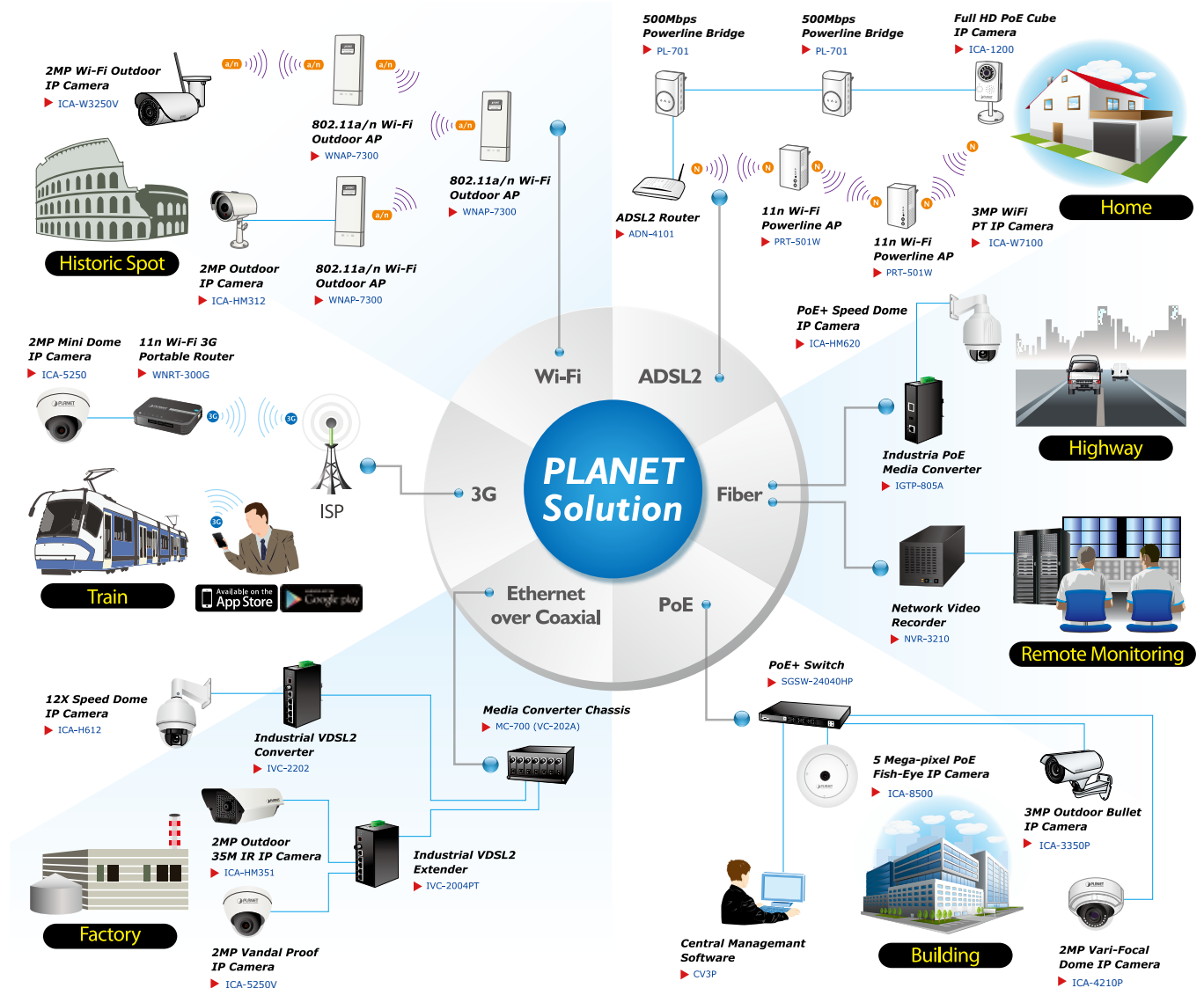
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IP-related Equipment



































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All-Inclusive IP Surveillance Solution



2015 Product Roadmap

IP Surveillance - IP Cameras

	Bullet				Dome				
	720P / HD	2MP / Full HD		3MP	5MP	720P / HD	2MP / Full HD		5MP
	ICA-3150	ICA-HM312	ICA-3260			ICA-4150			
Fixed-focal									
		ICA-3250V	ICA-W3250V		ICA-3550V			ICA-4200V	ICA-4500V
Vari-focal									
				ICA-3350P			ICA-4210P		
Remote-focus									
	ICA-3110	ICA-3200				ICA-4130S	ICA-4230S	ICA-4200	
Ultra-mini									
Vandal Dome					Fisheye				
	720P / HD	2MP / Full HD		3MP	5MP	720P / HD	2MP / Full HD	3MP	5MP
	ICA-5155					ICA-W8100/CLD	ICA-W/8200	ICA-8350	ICA-W/8500
Fixed-focal									
		ICA-5250V	ICA-5260V	ICA-5350V	ICA-5550V				
Vari-focal									
	ICA-5150	ICA-5250	ICA-5250E						
Ultra-mini									
Box				Cube		PTZ			
	2MP / Full HD		5MP	720P / HD	2MP / Full HD	720P / HD	D1	2MP / Full HD	
	ICA-HM351			ICA-W/1100	ICA-W/1200	ICA-W7100			
Fixed-focal									
	ICA-2200	ICA-2250VT	ICA-2500						
Vari-focal									
							ICA-H652	ICA-HM620	
Auto Focus									

Available Now

Available Q2, 2015

Exmor RS IP Cameras

	Bullet Type	Dome Type	
Model	ICA-3260	ICA-4210P	ICA-5260V

Product Image



60FPS IP66



P-iris 60FPS Smart Focus



60FPS Full HD 1080

Sensor Type	1/2.8" Sony Exmor RS Progressive CMOS	1/2.8" Sony Exmor RS Progressive CMOS	1/2.8" Sony Exmor RS Progressive CMOS
Lens Type	f = 4.2mm / F1.2	f = 3.0 ~ 10.5mm / F1.4	f = 3.0 ~ 9.0mm / F1.2 ~ 2.7
View Angle	H: 74° V: 57°	H: 25° ~ 80° V: 19° ~ 62°	H: 28° ~ 103° V: 15° ~ 52°
Sensibility (Lux)	0.1 Lux (Color) 0.01 Lux (B/W)	0.1 Lux (Color) 0.01 Lux (B/W)	0.1 Lux (Color) 0.01 Lux (B/W)
IR Illuminations	20 meters	20 meters	20 meters
ICR (IR cut Removable)	●	●	●
Image Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Max resolution	1920 x 1080 (60fps) 1920 x 1080 WDR (30fps)	1920 x 1080 (60fps) 1920 x 1080 WDR (30fps)	1920 x 1080 (60fps) 1920 x 1080 WDR (30fps)
Audio Capability	Two-way Audio	Two-way Audio, built-in Mic	Two-way Audio
Pan / Tilt / Zoom	Digital Zoom	3 x Zoom	Digital Zoom
PoE	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)
Wireless Interface	-	-	-
Waterproof	IP66	-	IP66
Vandalproof	-	-	IK10
IPv6	●	●	●
ONVIF	●	●	●
WDR	True WDR	True WDR	True WDR
PIR	-	●	-
DI / DO	1/1	1/1	1 / 1
Intelligent	Motion / Tampering / Audio / Face / Cross line / External input	Motion / Tampering / Audio / Face / Cross line / External input	Motion / Tampering / Face
On-board Storage	-	mSD / SDHC card slot	mSD / SDHC card slot
Operating Temperature	-20°C to 50°C	0°C to 50°C	-20°C to 50°C

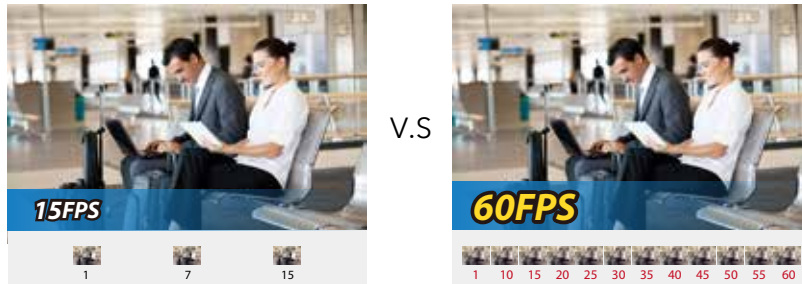
Ideal Surveillance Solution for Indoor Applications

- Sony Exmor RS
- 60fps



PLANET Exmor RS IP Camera Series supports H.264 and JPEG compression formats and delivers excellent picture quality in Full HD resolutions at 60 frames per second (fps). Incorporating the new Exmor RS™ CMOS image sensor, which is specially designed for surveillance applications, PLANET Exmor RS IP Camera Series provides high-quality images under all lighting conditions.

High Frame Rate (60fps) for Real-time Surveillance Applications



Super low lux for day & night



True WDR



By IP Camera with no WDR

By PLANET True WDR IP camera

LPR



By other brands

By PLANET LPR IP camera

Smart Focus with P-Iris

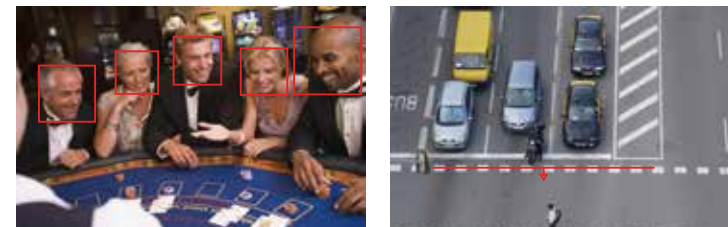


Blurred

Auto Focus

Clear

Face Detection and Cross Line Detection



Face Detection

Cross Line Detection

5 Mega-pixel Fish-Eye IP Cameras

Fish-Eye Type		
Model	ICA-8500	ICA-W8500

Product Image



5MP

5MP

11n Wi-Fi

Sensor Type	1/2.5" Progressive CMOS	1/2.5" Progressive CMOS
Lens Type	f = 1.05mm / F2.8 FOV=186±4° (D/H/V)	f = 1.05mm / F2.8 FOV=186±4° (D/H/V)
View Angle	H: 185° V: 185° D: 185°	H: 185° V: 185° D: 185°
Sensibility (Lux)	1.9 Lux (Color) 0.1 Lux (B/W)	1.9 Lux (Color) 0.1 Lux (B/W)
IR Illuminations	-	-
ICR (IR cut Removable)	●	●
Image Compression	H.264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG
Max resolution	1920 x 1920 (15fps)	1920 x 1920 (15fps)
Audio Capability	Two-way Audio, built-in Mic	Two-way Audio, built-in Mic
Pan / Tilt / Zoom	ePTZ	ePTZ
PoE	IEEE 802.3af (Class 3)	-
Wireless Interface	-	IEEE802.11n/g/b
Waterproof	-	-
Vandalproof	-	-
IPv6	-	-
ONVIF	●	●
WDR	●	●
PIR	-	-
DI / DO	1 / 1	1 / 1
Intelligent	Motion	Motion
On-board Storage	mSD / SDHC card slot	mSD / SDHC card slot
Operating Temperature	0°C to 50°C	0°C to 50°C



Panoramic Camera for Wide View Surveillance






360° Source View

360° Source View
with 3 ROI

180° Triple View with 2 PTZ

Fish-Eye IP Cameras

Fish-Eye Type				
Model	ICA-8200	ICA-W8200	ICA-W8100	ICA-W8100-CLD
Product Image				
	2MP	2MP 11n Wi-Fi	HD 720 11n Wi-Fi	Cloud 11n Wi-Fi
Sensor Type	1/2.5" Progressive CMOS	1/2.5" Progressive CMOS	1/4" Progressive CMOS	1/4" Progressive CMOS
Lens Type	f = 1.25mm / F2.0 FOV=180±5° (D/H/V)	f = 1.25mm / F2.0 FOV=180±5° (D/H/V)	f = 0.89mm / F2.0 FOV=185° (D/H/V)	f = 0.89mm / F2.0 FOV=185° (D/H/V)
View Angle	H: 185° V: 185° D: 185°	H: 185° V: 185° D: 185°	H: 185° V: 185° D: 185°	H: 185° V: 185° D: 185°
Sensibility (Lux)	1.9 Lux (Color) 0.1 Lux (B/W)	1.9 Lux (Color) 0.1 Lux (B/W)	0.5 Lux	0.5 Lux
IR Illuminations	-	-	-	-
ICR (IR cut Removable)	●	●	-	-
Image Compression	H.264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG
Max resolution	1440 x 1440 (15fps)	1440 x 1440 (15fps)	1280 x 720 (30fps)	1280 x 720 (30fps)
Audio Capability	Two-way Audio, built-in Mic		Two-way Audio, built-in Mic	
Pan / Tilt / Zoom	ePTZ	ePTZ	ePTZ	ePTZ
PoE	IEEE 802.3af (Class 3)	-	-	-
Wireless Interface	-	IEEE802.11n/g/b	IEEE802.11n/g/b	IEEE802.11n/g/b
Waterproof	-	-	-	-
Vandalproof	-	-	-	-
IPv6	-	-	-	-
ONVIF	●	●	●	●
WDR	●	●	-	-
PIR	-	-	●	●
DI / DO	1 / 1	1 / 1	-	-
Intelligent	Motion	Motion	Motion	Motion
On-board Storage	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot
Operating Temperature	0°C to 50°C	0°C to 50°C	0°C to 45°C	0°C to 45°C



Wireless Fish-Eye Cloud IP Camera

Cloud Service
Access Your IP Camera Immediately!

Available on the App Store | Google play | PLANET DDNS Free

Cloud

180° panoramic wide angle view

Scan QR code
Easy to Install

Phone
InstantAlert

CloudStorage
CloudStorage

Ultra-mini IP Cameras

	Bullet Type		Dome Type
Model	ICA-3110	ICA-3200	ICA-4200

Product Image



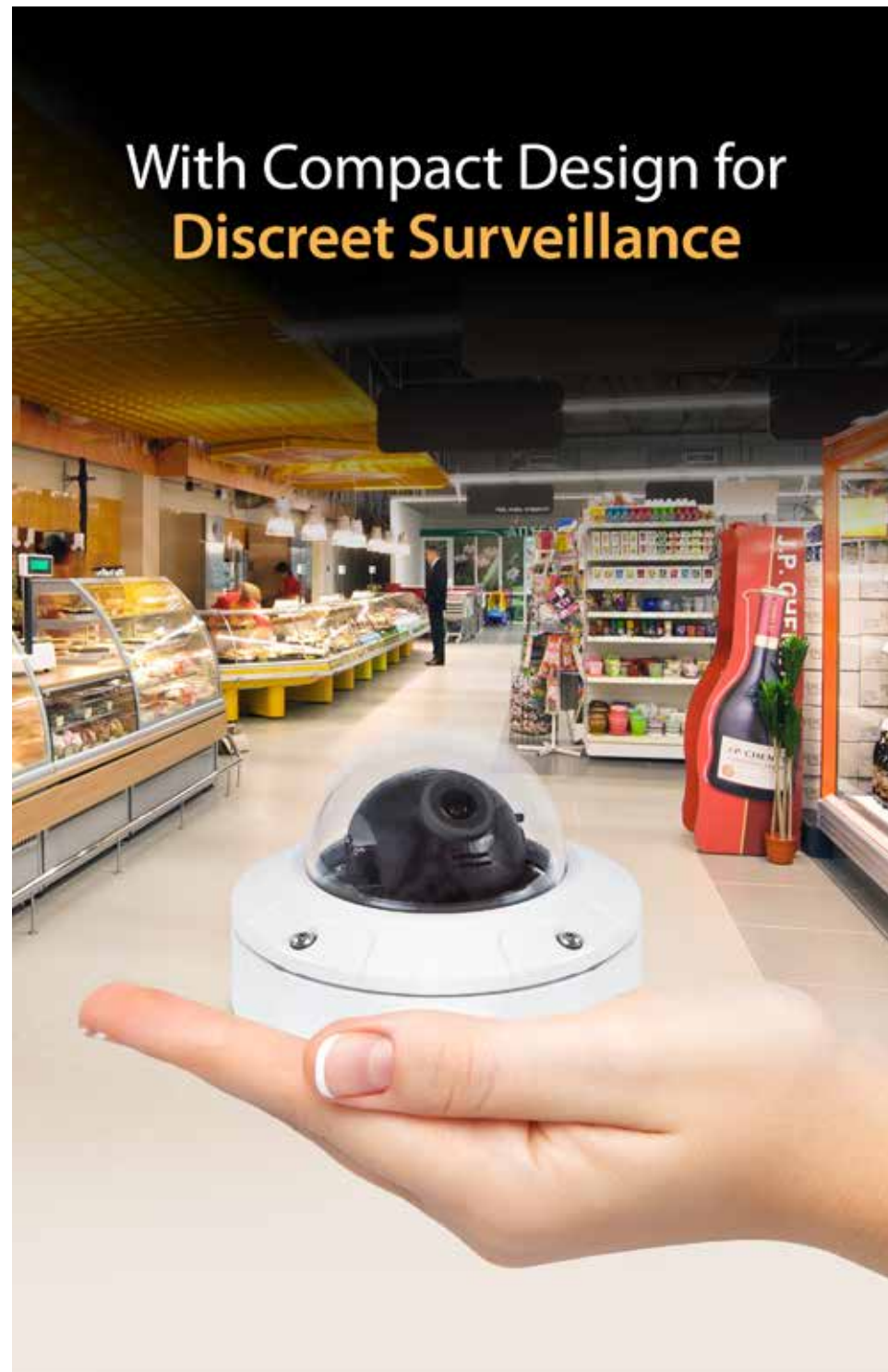
HD 720

Full HD 1080

Full HD 1080







Sensor Type	1/3.2" Progressive CMOS	1/3.2" Progressive CMOS	1/2.5" Progressive CMOS
Lens Type	f = 3.6mm / F1.6	f = 3.6mm / F1.6	f = 3.6mm / F1.8
View Angle	H: 53° V: 29°	H: 53° V: 29°	H: 60.79° V: 36.52°
Sensibility (Lux)	1 Lux (Color) 0.5 Lux (B/W)	1 Lux (Color) 0.5 Lux (B/W)	0.1 Lux
IR Illuminations	10 meters	-	-
ICR (IR cut Removable)	-	-	-
Image Compression	H.264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG
Max resolution	1280 x 1024 (20fps) 1280 x 720 (30fps)	1920 x 1080 (25fps) 1280 x 720 (30fps)	1920 x 1080 (30fps) 1280 x 720 (30fps)
Audio Capability	Two-way Audio, built-in Mic	Two-way Audio, built-in Mic	-
Pan / Tilt / Zoom	Digital Zoom	Digital Zoom	Digital Zoom
PoE	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)
Wireless Interface	-	-	-
Waterproof	-	-	-
Vandalproof	-	-	-
IPv6	●	●	●
ONVIF	●	●	●
WDR	●	●	●
PIR	-	-	-
DI / DO	1 / 1	1 / 1	1 / -
Intelligent	Motion	Motion	Motion
On-board Storage	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot
Operating Temperature	-10°C to 45°C	-10°C to 45°C	-10°C to 45°C

With Compact Design for Discreet Surveillance









Ultra-mini IP Cameras

Cube IP Cameras







	Fixed Dome Type				Cube Type	
Model	ICA-4130S	ICA-4230S	ICA-5150	ICA-5250	ICA-1200	ICA-W1200
Product Image						
	SIP HD 720	SIP Full HD 1080	HD 720	Full HD 1080	Exmor Full HD 1080	Exmor 11n Wi-Fi
Sensor Type	1/2.5" Progressive CMOS	1/2.5" Progressive CMOS	1/4" Progressive CMOS	1/3.2" Progressive CMOS	1/2.9" Sony Exmor Progressive CMOS	1/2.9" Sony Exmor Progressive CMOS
Lens Type	f = 3.6mm / F1.2	f = 4.0mm / F1.2	f = 3.6mm / F1.8	f = 3.6mm / F1.6	f = 4.2mm / F1.2	f = 4.2mm / F1.2
View Angle	H: 96° V: 72°	H: 96° V: 72°	H: 59.5° V: 46.37°	H: 53.13° V: 29.49°	H: 56° V: 43°	H: 56° V: 43°
Sensibility (Lux)	0.5 Lux (Color) 0.1 Lux (B/W)	0.5 Lux (Color) 0.1 Lux (B/W)	1 Lux (Color) 0.5 Lux (B/W)	1 Lux (Color) 0.5 Lux (B/W)	0.5 Lux	0.5 Lux
IR Illuminations	-	10 meters	-	-	5~10 meters	5~10 meters
ICR (IR cut Removable)	-	●	-	-	●	●
Image Compression	H.264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG	H.264 / MJPEG	H.264 / MJPEG	H.264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG
Max resolution	1280 x 960 (30fps) 1280 x 720 (30fps)	1920 x 1080 (30fps) 1280 x 720 (30fps)	1280 x 1024 (30fps) 1280 x 720 (30fps)	1920 x 1080 (25fps) 1280 x 720 (30fps)	1920 x 1080 (25fps) 1280 x 720 (30fps)	1920 x 1080 (25fps) 1280 x 720 (30fps)
Audio Capability	One-way Audio, built-in Mic	One-way Audio, built-in Mic	-	-	Two-way Audio, built-in Mic / speaker	Two-way Audio, built-in Mic / speaker
Pan / Tilt / Zoom	Digital Zoom	Digital Zoom	Digital Zoom	Digital Zoom	Digital Zoom	Digital Zoom
PoE	IEEE 802.3af (Class 2)	IEEE 802.3af (Class 2)	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	-
Wireless Interface	-	-	-	-	-	IEEE802.11n/g/b
Waterproof	-	-	IP66	IP66	-	-
Vandalproof	-	-	IK10	IK10	-	-
IPv6	-	-	●	●	●	●
ONVIF	●	●	●	●	●	●
WDR	●	●	●	●	●	●
PIR	-	-	●	-	●	●
DI / DO	-	-	-	1 / 1	1 / 1	1 / 1
Intelligent	Motion / Tampering / Audio / Network failure	Motion / Tampering / Audio / Network failure	Motion	Motion	Motion / Tampering / Audio	Motion / Tampering / Audio
On-board Storage	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot
Operating Temperature	-10°C to 60°C	-10°C to 60°C	-10°C to 50°C	-20°C to 50°C	-10°C to 40°C	-10°C to 40°C

Bullet IP Cameras

Bullet Type						
Model	ICA-3150	ICA-HM312	ICA-3250V	ICA-W3250V	ICA-3550V	ICA-3350P
Product Image						
	HD 720	Full HD 1080	Full HD 1080	11n Wi-Fi	5MP	3MP Smart Focus
Sensor Type	1/4" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/3.2" Progressive CMOS	1/3" Progressive CMOS
Lens Type	f = 3.6mm / F1.4	f = 4.0mm / F1.4	f = 3.0 ~ 10.5mm / F1.2 ~ 2.0	f = 3.0 ~ 10.5mm / F1.2 ~ 2.0	f = 3.0 ~ 9.0mm / F1.2	f = 3.0 ~ 10.5mm / F1.4 ~ 2.0
View Angle	H: 75° V: 55°	H: 66° V: 52°	H: 34° ~ 106° V: 19° ~ 61°	H: 34° ~ 106° V: 19° ~ 61°	H: 27.31° ~ 75.24° V: 19.09° ~ 54.16°	H: 91.2° ~ 25.5° V: 68.4° ~ 19.1°
Sensibility (Lux)	0.1 Lux (Color) 0 Lux (B/W)	0.3 Lux (Color) 0.1 Lux (B/W)	0.1 Lux (Color) 0 Lux (B/W)	0.1 Lux (Color) 0 Lux (B/W)	0.1 Lux (Color) 0 Lux (B/W)	0.5 Lux (Color) 0 Lux (B/W)
IR Illuminations	25 meters	25 meters	25 meters	25 meters	25 meters	50 meters
ICR (IR cut Removable)	●	●	●	●	●	●
Image Compression	H.264	H.264 / MJPEG	H.264 / MJPEG	H.264 / MJPEG	H.264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG
Max resolution	1280 x 720 (30fps)	1920 x 1080 (30fps) 1280 x 720 (30fps)	1920 x 1080 (30fps) 1280 x 720 (30fps)	1920 x 1080 (30fps) 1280 x 720 (30fps)	2592 x 1944 (15fps) 1920 x 1080 (30fps)	2048 x 1536 (20fps) 1920 x 1080 (30fps)
Audio Capability	-	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio
Pan / Tilt / Zoom	Digital Zoom	Digital Zoom	Digital Zoom	Digital Zoom	Digital Zoom	3 x Zoom
PoE	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	-	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)
Wireless Interface	-	-	-	IEEE802.11n/g/b	-	-
Waterproof	IP66	IP66	IP66	IP66	IP66	IP66
Vandalproof	-	-	-	-	-	-
IPv6	-	●	●	●	●	●
ONVIF	●	●	●	●	●	●
WDR	●	●	●	●	●	True WDR
PIR	-	-	-	-	-	-
DI / DO	-	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Intelligent	Motion	Motion / Tampering / Audio	Motion / Tampering	Motion / Tampering	Motion / Tampering	Motion
On-board Storage	-	-	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot
Operating Temperature	-10°C to 50°C	-20°C to 50°C	-20°C to 50°C	-20°C to 50°C	-20°C to 50°C	-40°C to 50°C








Dome IP Cameras

Fixed Dome Type

Model	ICA-4150	ICA-4200V	ICA-4500V	ICA-5250V	ICA-5550V	ICA-5350V
Product Image						
	HD 720	Full HD 1080	5MP	Full HD 1080	5MP	3MP Exmor
Sensor Type	1/4" Progressive CMOS	1/2.7" Sony Exmor Progressive CMOS	1/3" Progressive CMOS	1/2.7" Progressive CMOS	1/3.2" Progressive CMOS	1/2.8" Sony Exmor Progressive CMOS
Lens Type	f = 3.6mm / F1.4	f = 2.8 ~ 12mm / F1.2	f = 3.3 ~ 12mm / F1.2	f = 3.0 ~ 9.0mm / F1.2 ~ 2.7	f = 3.0 ~ 9.0mm / F1.2 ~ 2.7	f = 3.0 ~ 9.0mm / F1.2 ~ 2.7
View Angle	H: 75° V: 55°	H: 27° ~ 82° V: 19° ~ 64°	H: 27° ~ 82° V: 19° ~ 64°	H: 31° ~ 104° V: 17° ~ 59°	H: 28.9° ~ 93.59° V: 22.3° ~ 71.5°	H: 40° ~ 97° V: 30° ~ 81°
Sensibility (Lux)	0.1 Lux (Color) 0 Lux (B/W)	0.5 Lux (Color) 0.1 Lux (B/W)	0.5 Lux (Color) 0.1 Lux (B/W)	0.1 Lux (Color) 0 Lux (B/W)	0 Lux	0.5 Lux (Color) 0.2 Lux (B/W)
IR Illuminations	20 meters	20 meters	20 meters	20 meters	20 meters	20 meters
ICR (IR cut Removable)	●	●	●	●	●	●
Image Compression	H.264	H.264 / MJPEG	H.264 / MPEG4 / MJPEG	H.264 / MJPEG	H.264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG
Max resolution	1280 x 720 (30fps)	1920 x 1080 (30fps) 1280 x 720 (30fps)	2592 x 1944 (15fps) 1920 x 1080 (30fps)	1920 x 1080 (30fps) 1280 x 720 (30fps)	2592 x 1944 (15fps) 1920 x 1080 (30fps)	2048 x 1536 (30fps) 1920 x 1080 (30fps)
Audio Capability	-	Two-way Audio, built-in Mic	Two-way Audio, built-in Mic	Two-way Audio	Two-way Audio	Two-way Audio
Pan / Tilt / Zoom	Digital Zoom	Digital Zoom	Digital Zoom	Digital Zoom	Digital Zoom	Digital Zoom
PoE	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)
Wireless Interface	-	-	-	-	-	-
Waterproof	IP66	-	-	IP66	IP66	IP66
Vandalproof	-	-	-	IK10	IK10	IK10
IPv6	-	●	●	●	●	●
ONVIF	●	●	●	●	●	●
WDR	●	●	●	●	●	●
PIR	-	●	●	-	-	-
DI / DO	-	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Intelligent	Motion	Motion / Tampering / Audio	Motion / Tampering / Audio	Motion / Tampering	Motion / Tampering	Motion / Tampering / Audio
On-board Storage	-	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot
Operating Temperature	-10°C to 50°C	0°C to 50°C	0°C to 50°C	-20°C to 50°C	-20°C to 50°C	-20°C to 50°C

Box IP Cameras

Speed Dome IP Cameras

	Bullet Type				P/T & Speed Dome Type		
Model	ICA-2200	ICA-2500	ICA-HM351	ICA-2250VT	ICA-W7100	ICA-H652	ICA-HM620
Product Image							
	Full HD 1080	5MP	Industrial Full HD 1080	Industrial Full HD 1080	HD 720	36X	20X Full HD 1080
Sensor Type	1/2.7" Progressive CMOS	1/3" Progressive CMOS	1/2.7" Progressive CMOS	1/2.9" Sony Exmor Progressive CMOS	1/4" Progressive CMOS	1/4" Sony Ex-view HAD CCD	1/2.8" Sony Progressive CMOS
Lens Type	f = 3.3 ~ 12mm / F1.4	f = 2.8 ~ 8.0mm / F1.4	f = 4.0mm / F1.4	f = 3.1 ~ 8mm / F1.4	f = 3.6mm / F1.4	f = 3.4 ~ 122.4mm / F1.6 ~ 3.4	f = 4.7 ~ 94mm / F1.6 ~ 3.8
View Angle	H: 38.7° ~ 95.9° V: 29.1° ~ 71.0°	H: 35.8° ~ 100.1° V: 26.8° ~ 72.9°	H: 66° V: 52°	H: 29.8°~79.3°	H: 75° V: 55°	H: 1.7° ~ 57.8° V: 1.28° ~ 43.4°	H: 5.2° ~ 55.2° V: 2.4° ~ 42.1°
Sensibility (Lux)	0.3 Lux (Color) 0.1 Lux (B/W)	0.5 Lux (Color) 0.1 Lux (B/W)	0.3 Lux (Color) 0.1 Lux (B/W)	0.3 Lux (Color) 0.1 Lux (B/W)	0.1 Lux (Color) 0 Lux (B/W)	0.01 Lux (Color) 0.001 Lux (B/W)	0.3 Lux (Color) 0.04 Lux (B/W)
IR Illuminations	-	-	35 meters	35 meters	10 meters	-	-
ICR (IR cut Removable)	●	●	●	●	●	●	●
Image Compression	H.264 / MPEG4 / MJPEG	H.264 / MPEG4 / MJPEG	H.264 / MJPEG	H.264 / MPEG4 / MJPEG	H.264	H.264 / MJPEG	H.264 / MJPEG
Max resolution	1920 x 1080 (30fps)	2592 x 1944 (15fps) 1920 x 1080 (30fps)	1920 x 1080 (30fps)	1920 x 1080 (30fps)	1280 x 720 (30fps)	PAL: 704 x 576 (60fps) NTSC: 704 x 480 (60fps)	1920 x 1080 (30fps) 1280 x 720 (60fps)
Audio Capability	Two-way Audio, built-in Mic	Two-way Audio, built-in Mic	Two-way Audio	Two-way Audio	Two-way Audio, built-in Mic	Two-way Audio	Two-way Audio
Pan / Tilt / Zoom	Digital Zoom	Digital Zoom	Digital Zoom	Digital Zoom	0 ~ 355° / 0 ~ 90° / Digital Zoom	0 ~ 360° / 0 ~ 180° 432x	0 ~ 360° / -10 ~ 190° 144x
PoE	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	-	IEEE 802.3at (Class 4)	IEEE 802.3at (Class 4)
Wireless Interface	-	-	-	-	IEEE802.11n/g/b	-	-
Waterproof	-	-	IP66	IP66	-	IP66	IP66
Vandalproof	-	-	-	-	-	IK10	IK10
IPv6	●	●	●	●	-	●	●
ONVIF	●	●	●	●	●	●	●
WDR	●	●	●	●	●	●	●
PIR	-	-	-	-	-	-	-
DI / DO	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	4 / 2	4 / 2
Intelligent	Motion / Tampering / Audio	Motion / Tampering / Audio	Motion / Tampering / Audio	Motion / Tampering / Audio	Motion	Motion / Network failure	Motion / Network failure
On-board Storage	mSD / SDHC card slot	mSD / SDHC card slot	-	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot
Operating Temperature	0°C to 50°C	0°C to 50°C	-30°C to 60°C	-40°C to 75°C	-10°C to 50°C	-45°C to 50°C	-45°C to 50°C

Hybrid DVRs

NVRs


	Entry-Level			Midrange		Professional	
Model	HDVR-430	HDVR-830	HDVR-1630	NVR-915	NVR-1615	NVR-820	NVR-1620

Product Image







LAN Ports	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps
Hard Drive	1 x 3.5" SATA HDD	1 x 3.5" SATA HDD	1 x 3.5" SATA HDD	2 x 3.5" SATA HDD	2 x 3.5" SATA HDD	2 x 3.5" SATA HDD	2 x 3.5" SATA HDD
RAID	-	-	-	-	-	-	-
e-SATA	-	-	-	●	●	●	●
USB	2	2	2	2	2	2	2
USB for UPS	-	-	-	-	-	●	●
DI/DO	-	-	-	4/4	4/4	-	-
Two-way Audio (G.711/G.726)	●	●	●	●	●	●	●
Video Output	HDMI, VGA (1280 x 720)	HDMI, VGA (1280 x 720)	HDMI, VGA (1280 x 720)	HDMI, VGA (1920 x 1080)	HDMI, VGA (1920 x 1080)	HDMI, VGA (Dual monitor for Live View & playback)	
Video Channels	4	8	16	9	16	8	16
Video Split Mode	1/4/full Screen	1/4/9/full Screen	1/4/9/16/full Screen	1/4/9/full Screen	1/4/9/full Screen	1/4/9/full screen	1/4/9/16/full screen
Video Compression	H.264	H.264	H.264	H.264	H.264	H.264 / MPEG-4 / M-JPEG	
Video Resolution	IP Camera: Full HD / HD Analog Camera: 960H / D1 / HD1/ CIF			5M / 3M / Full HD / SXGA / VGA / QVGA		5MP / 3MP / 1080P / 2MP / SXGA / 720P / HD1 / VGA / CIF / QCIF	
Max. Live Video Frame Rate	60 fps at 720P	60 fps at 720P	60 fps at 720P	120 fps at 1080P	120 fps at 1080P	120 fps at 1080P	120 fps at 1080P
Max. Bitrate	20 Mbps	20 Mbps	60 Mbps	48 Mbps	80 Mbps	100 Mbps	100 Mbps
ONVIF	●	●	●	●	●	●	●
Auto-Configuraiton Planet IP CAM	-	-	-	●	●	●	●
Multi-brand IP CAM support	-	-	-	-	-	●	●
Multi-Language	●	●	●	●	●	●	●
E-Map	-	-	-	●	●	●	●
Google Map	-	-	-	-	-	●	●
MAC Safari	-	-	-	-	-	●	●
Multi-Monitor	-	-	-	-	-	5 (Free CMS)	5 (Free CMS)
Mobile Apps	● (Android)	● (Android)	● (Android)	● (iOS / Android)	● (iOS / Android)	● (iOS / Android)	● (iOS / Android)
Save-to-NAS	-	-	-	-	-	● (with Free software)	● (with Free software)
Intelligent Video (with CMS/Camera)	Motion, Disconnect Detection			Motion, Tampering, Audio, Disconnect Detection		Motion, Tampering, Audio, Disconnect, Tripwire Detection, Object Loss, Image Enhancement	
CMS	CV4-M256	CV4-M256	CV4-M256	CV5-M256	CV5-M256	CV3-M256, CV3-M1024	CV3-M256, CV3-M1024

Enterprise NVRs

	Professional		
	NVR-3210	NVR-3250	NVR-3280
Product Image			
	RAID	RAID	RAID
LAN Ports	1 x 10/100Mbps	1 x 10/100Mbps	2 x 10/100/1000Mbps
Hard Drive	4 x 3.5" SATA HDD	4 x 3.5" SATA HDD	8 x 3.5" SATA HDD
RAID	RAID 0,1,5,10	RAID 0,1,5,10	RAID 5,10
e-SATA	●	●	●
USB	6	4	6
USB for UPS	●	●	●
DI/DO	-	8/4	8/4
Two-way Audio (G.711/G.726)	●	●	●
Video Output	VGA (1920 x 1080)	VGA (1920 x 1080)	VGA (1920 x 1080)
Video Channels	32	32	32
Video Split Mode	1/4/9/13/16/36/full screen	1/4/9/13/16/36/full screen	1/4/9/13/16/36/full screen
Video Compression	H.264 / MPEG-4 / M-JPEG	H.264 / MPEG-4 / M-JPEG	H.264 / MPEG-4 / M-JPEG
Video Resolution	5MP / 3MP / 1080P / 2MP / SXGA / 720P / HD1 / VGA / CIF / QCIF		
Max. Live Video Frame Rate	200 fps at 1080P	200 fps at 1080P	200 fps at 1080P
Max. Bitrate	200 Mbps	200 Mbps	200 Mbps
ONVIF	●	●	●
Auto-Configuraiton Planet IP CAM	●	●	●
Multi-brand IP CAM support	●	●	●
Multi-Language	●	●	●
E-Map	●	●	●
Google Map	●	●	●
MAC Safari	●	●	●
Multi-Monitor	5 (Free CMS)	5 (Free CMS)	5 (Free CMS)
Mobile Apps	● (iOS / Android)	● (iOS / Android)	● (iOS / Android)
Save-to-NAS	● (with Free software)	● (with Free software)	● (with Free software)
Intelligent Video (with CMS/Camera)	Motion, Tampering, Audio, Disconnect, Tripwire Detection, Object Loss, Image Enhancement		
CMS	CV3-M256, CV3-M1024	CV3-M256, CV3-M1024	CV3-M256, CV3-M1024

Enterprise Surveillance Managers

	Cam Viewer Three (CV3)	
	CV3 Lite	CV3 Pro
Product Image		
Playback	4CH synchronous	9CH synchronous
Remote Management	IE	Client AP, IE, CMS
Full Screen Mode	1	Not limited
E-Map	2-layer	Unlimited layer
Multi-monitor	4	5
POS	-	●
iNVR Viewer	-	●
Remote Backup/ Configuration	-	●
Keypro Protect	-	●
Intelligent	Motion Detection Camera Tampering	● *1
	Central Management Software (CMS)	
	CV3-M256	CV3-M1024
Product Image		
Max. Channels	256	1024 (unlimited NVRs)
Max. NVRs	16	1024
Max. Resolution	HD (1280x720)	5MP (2560x1720)
NVR Status Grid	4 x 4	4 x 4 -> 8 x 8 -> 8 x N
E-Map	2-layer	4-layer
Keypro Protect	-	●
Intelligent	● *2	● *2

Remarks:

*1. Motion Detection, Camera Tampering, Object Loss, Tripwire, Foreign Object, Object Counting, Face Counting, Image Enhancement.

*2. Motion Detection, Camera Tampering, Object Loss, Tripwire, Image Enhancement.

Enterprise Surveillance Managers

To meet advanced surveillance needs and manage different IP cameras with one central management interface, the Cam Viewer 3, the most convenient solution for installers, provides a state-of-the-art IP surveillance system. This software supports the widest choice of PLANET IP cameras and video servers, with the equipment connected directly to LAN or other TCP/IP network, such as the Internet. Digital recording is saved directly onto the hard drive(s) of the PC.

- Simultaneous recording and live video streams
- Supports M-JPEG / MPEG-4 / H.264 compressions
- Video recycle function keeps the video recording 7 / 24
- Built-in Intelligent Video Analytics (IVA)
- Up to 5 monitors for live operation
- Exports recorded video file to AVI format
- Unlimited layer E-Map integrated with Google Map
- Real-time / playback video with high quality at 30 / 25 fps
- 2-way audio function
- Multiple languages support
- Joystick support



Intelligent Video Analysis



Motion Detection



Tripwire Detection



Camera Tampering



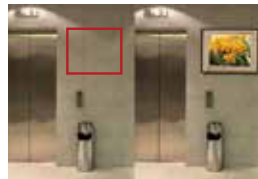
Face Counting



Imaga Enhancement



Object Counting



Object Loss



Foreign Object

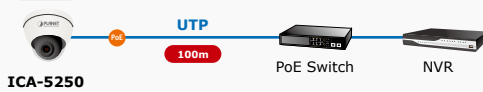


Central Management Software

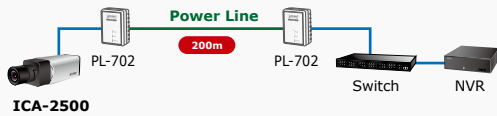


IP Camera Extensions

PoE



Power Line



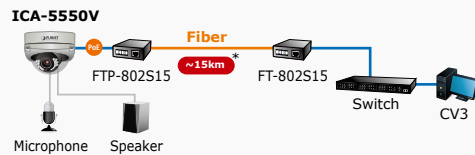
Wireless



VDSL-Coaxial



Fiber



* Fiber distance varies on fiber transceiver, max. up to 120km.

For more information, please visit: www.planet.com.tw

IEEE 802.3at High Power PoE Managed Switches







		Gigabit Ethernet				Fast Ethernet
Model		GS-4210-8P2T2S	WGSD-10020HP	WGSW-20160HP	FGSD-1008HPS	FGSW-1816HPS
Product Image						
Hardware	10/100Base-TX	-	-	-	8	16
	10/100/1000Base-T	10	8	20	2	2
	1000Base-SX/LX	2 SFP	2 SFP	4 SFP	2 combo SFP	2 combo SFP
PoE Spec.	PoE Standard	802.3af / 802.3at	802.3af / 802.3at	802.3af / 802.3at	802.3af / 802.3at	802.3af / 802.3at
PoE Ability	PoE Port	8	8	16	8	16
	PoE Budget	240 watts max.	150 watts max.	230 watts max.	120 watts max.	200 watts max.
Intelligent PoE Control		●	●	●	●	●
Physical	Dimensions (W x D x H)	330 x 200 x 43.5mm	330 x 155 x 43.5mm	440 x 300 x 44mm	330 x 155 x 43.5mm	440 x 200 x 44.5mm
	Power Requirements	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz
	Operating Temperature	0~50°C	0~50°C	0~50°C	0~50°C	0~50°C

IEEE 802.3at High Power PoE Unmanaged Switches

Industrial PoE Switches






		Fast Ethernet		Gigabit Managed	Fast Ethernet Managed		Unmanaged
Model		FSD-504HP	FGSD-910HP	IGS-10020HPT	IGS-10020PT	IGS-624HPT	ISW-804PT-M12
Product Image							
Hardware	10/100Base-TX	5	8	-	-	-	8
	10/100/1000Base-T	-	1	8	8	4	-
	1000Base-SX/LX	-	-	-	-	2	-
PoE Spec.	PoE Standard	802.3af / 802.3at	802.3af / 802.3at	802.3at / 802.3af	802.3af	802.3af / 802.3at	802.3af
PoE Ability	PoE Port	8	8	8	8	4	4
	PoE Budget	60 watts max.	130 watts max.	270 watts max.	130 watts max.	120 watts max.	60 watts
Intelligent PoE Control		-	-	●	●	●	-
Physical	Dimensions (W x D x H)	90 x 80 x 21mm	280 x 180 x 43mm	65.7 x 107.2 x 152mm	65.7 x 107.2 x 152mm	72 x 107 x 152	103 x 53 x 163mm
	Power Requirements	48V DC, 1.5A	100~240V AC, 50/60Hz	Dual 48V DC	Dual 48V DC	48V DC	Dual 48V DC
	Operating Temperature	0~50°C	0~50°C	-47~75°C	-47~75°C	-40~75°C	-40~75°C

Power over Coaxial Extenders

		Gigabit / PoE +		PoE Injectors		PoE Injectors	
Model		HPOE-460	IPOE-162	POE-161	POE-163	GTP-805A	FTP-802 / FTP-802S15
Product Image							
Hardware	RJ-45 Data Input Port	4	1 x RJ-45	1 x RJ-45	1 x RJ-45	1x1000X/LC/Vary on Module	1x100FX/SC/MM/2km 1x100FX/SC/SM/15km
	RJ-45 Data + Power Output Port	4	1 x RJ-45	1 x RJ-45	1 x RJ-45	1 x RJ-45	1 x RJ-45
	Data Rate	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100Mbps
PoE Spec.	PoE Standard	802.3af / 802.3at	802.3af / 802.3at	802.3af / 802.3at	802.3af / 802.3at	802.3af / 802.3at	802.3af
	PSE Type	Mid-span	Mid-span	Mid-span	Mid-span	Mid-span	End-span
	Power Pin Assignment	4/5(+), 7/8(-)	4/5(+), 7/8(-)	4/5(+), 7/8(-)	4/5(+), 7/8(-)	4/5(+), 7/8(-)	1/2(+), 3/6(-)
	PoE Port	4	1	1	1	1	1
	PoE Power Output	52V DC	56V DC	56V DC	53V DC	52V DC	48V DC
Physical	PoE Ability	120 watts max.	30 watts	30 watts	30 watts	15.4 watts / 30 watts	15.4 watts
	Dimensions (W x D x H)	70 x 97 x 26mm	135 x 87 x 32mm	97 x 70 x 25mm	115 x 62.5 x 31mm	97 x 70 x 26mm	97 x 70 x 26mm
	Power Supply	External	External	External	Internal	External	External
	Power Requirements	52V DC, 2.5A	24~48V DC, 24V AC	100~240V AC, 50/60Hz		100~240V AC, 50/60Hz	
Regulator	Operating Temperature	0~50°C	-40~75°C	0~50°C	0~50°C	0~50°C	0~50°C
	EMI / Safety	FCC Class A, CE	FCC Class A, CE	FCC Class B, CE	FCC Class B, CE	FCC Class A, CE	FCC Class A, CE

PoE Extenders

Power over Coaxial Extender

		PoE Extenders		Fast Ethernet			
Model		POE-E201	POE-E101	VC-203PT	VC-203PR	VC-205PT	VC-205PR
Product Image							
Hardware	Data+Power Input Port	1 x RJ-45	1 x RJ-45	1 x RJ-45	1 x BNC	1 x RJ-45	1 x BNC
	Data Output Port	1 x RJ-45	1 x RJ-45	1 x BNC Data+Power	1 x RJ-45 Data+Power	1 x BNC Data + Power	1 x RJ-45 Data + Power
	DC Output Voltage	PoE 52~56V DC, max. 510mA	PoE 48V DC, max. 270mA	PoE 44~52V DC	PoE 40~52V DC	PoC 44~52V DC	PoE 40~52V DC
	DIP Switch	-	-	CO / CPE, asymmetric / symmetric	CO / CPE, asymmetric / symmetric, 12V, 24V	-	-
	Data Rate	10/100/1000Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps
PoE Spec.	PoE Standard	802.3at	802.af	802.3af / 802.3at PoE, Power over Coaxial		802.3af / 802.3at PoE, Power over Coaxial	
	PD Type	Mid-span	Mid-span	Both Mid-span and End-span	PoC	Both Mid-span and End-span	PoC
	PoE Power Input	52~56V DC	48V DC	48~56V DC	44~56V DC	48~56V DC	44~56V DC
Physical	Dimensions (W x D x H)	97 x 70 x 26mm	97 x 70 x 26mm	97 x 70 x 40mm	97 x 70 x 40mm	97 x 70 x 40mm	97 x 70 x 40mm
	Operating Temperature	0~50°C	0~50°C	-40~75°C	-40~75°C	-10~60°C	-10~60°C
Regulator	EMI / Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Internet Video Servers







H.264 Internet Video Servers			
Model	IVS-H125	IVS-H125P	IVS-2120
Product Image			
		PoE	Fiber PoE
Max. Resolution / Frame Rate	720 x 576 (30fps) 720 x 480 (30fps)	720 x 576 (30fps) 720 x 480 (30fps)	720 x 576 (30fps) 720 x 480 (30fps)
H.264/MPEG-4 / M-JPEG	● / ● / ●	● / ● / ●	● / ● / ●
Video Input	BNC x 1	BNC x 1	BNC x 1
Video Output	●	●	●
Audio In	●	●	●
Audio Out	●	●	●
2-way Audio	●	●	●
PoE	-	IEEE 802.3af	IEEE 802.3af
Fiber	-	-	●
Multi-Profile	●	●	●
Save-to-NAS	●	●	●
ONVIF	●	●	●
IPv6	●	●	●
DC Output	-	●	-
RS-485	●	●	●
DI/DO	1 / 1	1 / 1	1 / 1
On-board Storage	mSD / SDHC card slot	mSD / SDHC card slot	mSD / SDHC card slot
Power System	5V DC	48V DC (802.3af PD) 12V, 400mA DC out	48V DC (802.3af PD) Dual 12V ~ 48V DC / 12 ~ 30V AC
Operating Temperature	0°C to 40°C	0°C to 40°C	-30°C to 60°C
PLANET Media Converter Chassis Integration	● (MC-700 / MC-1500 series)	-	-


Industrial Analog CCTV System to IP-based PoE Security Solution

Industrial Internet Video Server



Fiber

Video over Fiber Media Converters							
Model	VF-101-KIT		VF-102SC-KIT	VF-102S15-KIT	VF-102-KIT	VF-106-KIT	VF-402-KIT
Product Image							
Ports	1 x Fiber, 1 x BNC (75ohm / unbalanced interface)			1 x Fiber, 1 x BNC (75ohm / unbalanced interface)			
Optic Interface	MM ST	MM SC	SM SC	SM FC	SM WDM SC	FC	
Wavelength	1310nm	1310nm	1310nm	T model: TX 1310nm RX 1550nm R model: TX 1550nm RX 1310nm	T model: TX 1310nm RX 1550nm R model: TX 1550nm RX 1310nm	T model: TX 1310nm RX 1550nm R model: TX 1550nm RX 1310nm	
Max. Distance	2km	2km	15km	20km	20km	20km	
Dimensions (W x D x H)	94 x 70 x 26 mm	94 x 70 x 26 mm	94 x 70 x 26 mm	94 x 70 x 26 mm	94 x 70 x 26 mm	110 x 174 x 47 mm	
Power	5V DC, 2A max.	5V DC, 2A max.	5V DC, 2A max.	5V DC, 2A max.	5V DC, 2A max.	5V DC, 2A max.	
Power Consumption	4.8 watts max.	4.8 watts max.	4.8 watts max.	4.8 watts max.	4.8 watts max.	6 watts max.	
Environment	Operating Temperature: 0 ~ 50 degrees C, Humidity: 5% ~ 90% RH (non-condensing)					Operating Temperature: -25 ~ 75 degrees C, Humidity: 0% ~ 95% RH (non-condensing)	
Video Specifications	1 bi-directional channel; NTSC/PAL system compliant; 6.5MHz video bandwidth; SNR Weighted @ 63db (typical)					4 bi-directional channel; NTSC/PAL system compliant; 6.5MHz video bandwidth; SNR Weighted @ 63 (typical)	
Data Interface Specifications	1 simplex channel RS-485; 115.2kbps data rate max.; Bit Error Rate @ 10ns					4 simplex channel RS-485; 150kbps data rate max.; Bit Error Rate @ 10ns	
Applied Chassis	MC-700 / MC-1500	MC-700 / MC-1500 / MC-1500R / MC-1500R48				-	

Control Keyboards	
Model	CAM-KB300
Product Image	
Joystick	3-Axis
Control Interface	RS-485
Pelco Protocol	Pelco D, Pelco P
Control Devices	255
Data Speed	9600 bps
Manual P/T Control	Pan: Right / Left, Tilt: Up / Down
Auto P/T Control	Pan: on / off, Sequence: on / off
Lens Control	Zoom: Wide / Tele; Focus: Near / Far; Iris: Open / Close
Camera Control	Preset Point: 80, Camera Setup Available
Supported Model	DVR-462, DVR-872, DVR-1672

Analog Cameras		
	CAM-IR138	15-meter Infrared Camera
	CAM-IR338	30-meter IR Outdoor Camera
	CAM-IVP55V	25-meter Infrared Vari-focal Vandal-proof Camera
	CAM-IR560V	50-meter IR Vari-focal Camera

Remarks: 1. MM: 50/125µm or 62.5/125µm multi-mode Fiber Cable.
 2. SM: 9/125µm single mode Fiber Cable.
 3. WDM: Wavelength Division Multiplexing Optic Interface, the connection should run in pair, i.e. model A fits model B



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