

IP-4BL-F36-EA

4MP Pro Al Full-color Fixed-focal Bullet Network



- 1/1.8" 4Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- 25/30 fps@2688 × 1520, 50/60 fps@1080 (1920 × 1080)
- · WDR (140 dB), Day/Night (Electronic), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS, VMS
- 3.6 mm fixed lens
- 1/1 Alarm in/out, 1/1 audio in/out
- · Micro SD memory, IP67











System Overview

Pro Al series contains Face Detection, Perimeter Protection and People Counting functions. Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. Active Deterrence and Full Color camera are also in this series. Meanwhile, the series features starlight technology. This series fully protected from dust and water, certified to IP67 standard.

Functions

Face Detection

Face Detection is a software application that automatically captures faces from within a digital image or a video frame from a video source. Empower cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

Perimeter Protection

Empower's Perimeter Protection functions significantly improved accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or to a mobile client reduces system requirements and resources resulting in greater surveillance system efficiency.

People Counting

People Counting function uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

ePoE technology

The ePoE technology of Empower, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Empower ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Protection(IP67, wide voltage)

The camera allows for $\pm 30\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) , the camera is the choice for installation in even the most unforgiving environments.

Night-color Starlight

The camera adopts F1.0 large aperture lens and 1/1.8" high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera presents an impressive low light performance with an exceptional balance between noise reduction and the blur of moving object.





Technical Specification								Main Stream: 2688 × 1520 (1 fps-25/30 fps)
Camera							Frame Rate	2560 × 1440 (1 fps-25/30 fps) 1920 × 1080 (1 fps-50/60 fps)
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS						Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps)
Effective Pixels		2688 (H) × 1520 (V)						Third Stream: 1080P (1 fps–16 fps)
RAM/ROM		1 GB/128 MB					Bit Rate Control	CBR/VBR
Scanning System		Progressive					Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s					Day/Night	Day/Night: Electronic
Minimum Illumination		0.001 Lux @F1.0					BLC Mode	Color/B/W BLC/HLC/WDR (140 dB)
Lens						White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Lens Type		Fixed-focal					Gain Control	Auto/Manual
Mount Type	Mount Type		Board-in				Noise Reduction	3D DNR
Focal Length		3.6 mm					Motion Detetion	Off/On (4 Zone, Rectangle)
Max. Aperture	Max. Aperture						Region of Interest	Off/On (4 Zone)
Angle of View		H: 93°, V: 50°					Defog	Yes
Aperture Type		Fixed					Flip	0°/90°/180°/270°
Close Focus Distance		2.0 m (6.56 ft)					Mirror	Off/On
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	Off/On (4 Area, Rectangle)
DORI Distance 3.	3.6mm	70 m (230 ft)	28 m (91 ft)	14m(46ft)	7m(23ft)		Audio	On On (4 Area, Nectangle)
Pan/Tilt/Rotation								C 7112 C 711Mu C 726 AAC C 722
Pan/Tilt/Rotation Rang	ge	Pan: 0°-360°	'; Tilt: 0°–90°;	Rotation: 0°-	-360°		Compression	G.711a, G.711Mu, G.726, AAC, G.723
ArtificialIntelligence	ce						Network	DL 45 (40/400 Dave T)
Face Detection		Support face image capture					Ethernet	RJ-45 (10/100 Base-T) IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP;
Perimeter Protection		Tripwire; intrusion (Recognition of vehicle and people); fast moving; loitering detection; parking detection and people gathering					Protocol	RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; SNMP
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milstone, Genetec; P2P
		detection, 4 areas independent detection					Streaming Method	Unicast/Multicast
GeneralIntelligence						Max. User Access	20 Users	
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address					Edge Storage	NAS; FTP; SFTP Micro SD card 256 GB
		conflict, Illegal Access, Storage anomaly					Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
General Intelligence		Object Abandoned/Missing					Management Software	WEB, CMS, P2P
Heat Map		Yes					Smart Phone	iOS, Android
Video		H.265, H.264, H.264B, H.264H,					Certifications	
	MJPEG(sub stream)				CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive			
Smart Codec Streaming Capability		Yes 3 Streams					Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Resolution		2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 ×					Interface	
		720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)					Audio Interface	1/1 channel In/Out



LR1002

ePoE Over Coax

Converter

Alarm	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC	
Electrical		
Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)	
Power Consumption	<4.4W	
Environmental		
Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH	
Storage Conditions	-30° C to +60° C (-22° F to +140° F)	
Ingress Protection	IP67	
Construction		
Casing	Metal	
Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 2.99")	
Net Weight	0.805 Kg (1.77 lb)	
Gross Weight	1.16 Kg (2.56 lb)	

Ordering Information							
Туре	Part Number	Description					
4440	PAL	4MP Pro Al Night-color Fixed-focal Bullet Network Camera, WDR, PAL					
4MP camera	NTSC	4MP Pro Al Night-color Fixed-focal Bullet Network Camera, WDR, NTSC					
	PFA130-E	Junction box					
Accessories (optional)	PFA152-E	Pole Mount					
,	PFA151	Corner Mount					

Accessories Optional:

PFA151

Corner Mount

PFA152-E

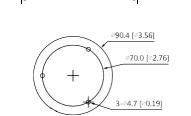
Pole Mount

PFA130-E

Junction box

Junction Mount	Pole Mount	Corner Mount
PFA130-E	PFA130-E+ PFA152-E	PFA130-E + PFA151

Dimensions (mm[inch]) 244.1 [9.61] 90.4 [3.56] 79.0 [3.11]



133.5 [5.26]