

IP-4EB-F28(F36)-PB

4MP IR Fixed focal Eyeball AI Network Camera



Launched by AI Technology, AI is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on new advanced technologies, AI provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, The AI Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

SMD Plus

With intelligent algorithm, The Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, The smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Perimeter Protection

With deep learning algorithm, The Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- · Outputs max. 4MP (2688 × 1520) @30 fps
- H.265 codec, high compression rate, low bit rate
- · Built-in IR LED, max. IR distance: 50 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 G Micro SD card, built-in Mic
- 12V DC/POE power supply
- IP67 protection
- SMD Plus













Starlight

The Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

Cyber Security

The network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Al Network Camera

Technical Sp	ecificatio	on					4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704
Camera						Resolution	× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/3" 4Megap	ixel progressive	e CMOS		Bit Rate Control	CBR/VBR
Max. Resolution		2688 (H) ×1520 (V)		Video Bit Rate	H.264: 3 Kbps-8192 Kbps		
ROM		128 MB				Day/Night	H.265: 3 Kbps–8192 Kbps Auto(ICR)/Color/B/W
RAM		512 MB			BLC	Yes	
Scanning System	stem Progressive			HLC	Yes		
Electronic Shutte	er Speed	Auto/Manual	1/3 s-1/10000	00 s		WDR	120 dB
Min. Illumination	n		1.6 (Color, 30I F1.6 (B/W, 30I ator on)	,		White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
S/N Ratio		> 56 dB				Gain Control	Auto/Manual
Illumination Dist	ance	50 m (164.0 f	t)			Noise Reduction	3D DNR
Illuminator On/C	Off Control	Auto/Manual				Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator Num	ber	2 (IR LED)				Region of Interest(RoI)	Yes (4 areas)
Pan/Tilt/Rotatio	n Range	Pan: 0°-360°,	; Tilt: 0°–78°; F	Rotation: 0°–36	60°	Smart Illumination	Yes
Lens						Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)
Lens Type		Fixed-focal				Mirror	Yes
Mount Type		M12				Privacy Masking	4 areas
Focal Length		2.8 mm; 3.6 r	nm; 6 mm			Audio	
Max. Aperture		F1.6				Built-in MIC	Yes
Field of View		3.6 mm: Horiz	zontal:84°; ver	ertical: 55°; diag tical: 45°; diago cal: 28°; diagon	onal: 100°	Audio Compression	G.711a; G.711Mu; G726
Iris Type		Fixed		.a 20 , a.a.go	an 01	Alarm	
Close Focus Dista	ance	2.8 mm: 0.9 r 3.6 mm: 1.6 r 6 mm: 3.2 m	n (5.3 ft)			Alarm Event	No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; intensity change; tripwire; intrusion; SMD
	Lens	Detect	Observe	Recognize	Identify	Network	
	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.8 ft)	5.6 m (18.4 ft)	Network	RJ-45 (10/100 Base-T)
DORI Distance	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.3 ft)	SDK and API	Yes
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4 ft)	Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP
Professional,	Intellige	nt					Video encryption; firmware encryption; configuration
Perimeter Prote	ction			tion of human a		Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted
Intelligent Searc	h	-		raction and me		Interoperability	execution; trusted upgrade ONVIF(Profile S/Profile G/ProfileT); CGI; P2P; Milestone; Genetec
Video						Scene Self-adaptation	Yes
Video Compress	ion	H.265; H.264; by sub strear		4B; MJPEG(only	y supported	(SSA) User/Host	20 (Total bandwidth: 64M)
Smart Codec		Smart H.265+	/ Smart H.264	+		Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Video Frame Rat	te	sub stream (7	(2688 × 1520@ '04 × 576@1–2 '1280 × 720@1	25 fps/704 × 48	0@1-30 fps)	Browser	IE: IE8, IE9, IE11 Chrome Firefox
Stream Capabilit	СУ	3 streams				Management Software	Web browser, CMS, Unisight VMS

Al Network Camera

Dimensions

Net Weight

Gross Weight

Mobile Phone	IOS; Android
Certification	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	<7.7W
Environment	
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/ less than 95%
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67
Structure	
Casing	Inner core: Metal Cover: Metal Decoration ring: Plastic

99.1 mm × Φ121.9 mm (3.9" × Φ4.8")

480 g (1.05 lb)

660 g (1.45 lb)

Ordering	Information		
Туре	Part Number	Description	
4MP	IP-4EB-F28-PB	4MP IR Fixed focal Eyeball AI Network Camera,2.8mm	
Camera	IP-4EB-F36-PB	4MP IR Fixed focal Eyeball AI Network Camera,3.6mm	
	PFA130-E	Junction Box	
	PFB203W	Wall mount	
	PFA152-E	Pole mount	
Accessories	PFM321D	DC12V1A Power adapter	
(optional)	LR1002-1ET/1EC	Single-port long reach ethernet over coax extender	
	PFM900-E	Integrated mount tester	
	PFM114	TLC SD card	

Accessories

Optional:







PFA130-E Junction Box

PFB203W

93W PFA152-E Hount Pole Mount

Wall Mount



PFM321D DC12V1A Power Adapter

R1002-1ET/1

LR1002-1ET/1EC Single-port long reach ethernet over coax extender

PFM900-E Integrated Mount tester



PFM114 TLC SD card

Junction Mount	Wall Mount	Pole Mount	
PFA130-E	PFB203W	PFA152-E+PFB203W	

Dimensions (mm[inch])

