

IP-4DM-F28(F36)-PB

4MP IR Fixed focal Dome Al 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 abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Alarm: In, out; Audio: In, out; Supports max. 256 G Micro SD card
- 12V DC/POE power supply
- IP67, IK10 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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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 Specification				4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1 3M (1380 × 160); 730p (1380 × 730); D1 (704			
Camera					Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Image Sensor		1/3" 4Megapixel progressive CMOS			Bit Rate Control	CBR/VBR	
Max. Resolution		2688 (H) ×1520 (V)				H.264: 3 Kbps–8192 Kbps	
ROM		128 MB			Video Bit Rate	H.265: 3 Kbps-8192 Kbps	
RAM		512 MB			Day/Night	Auto(ICR)/Color/B/W	
Scanning System		Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s			HLC	Yes	
Min. Illumination		0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE)				WDR White Balance	120 dB Auto/natural/street lamp/outdoor/manual/regional custom
S/N Ratio		0 Lux (Illuminator on) > 56 dB				Gain Control	Auto/Manual
Illumination Dist	tance	50 m (164.0 ft)			Noise Reduction	3D DNR	
Illuminator On/0		Auto/Manual			Motion Detection	OFF/ON (4 areas, rectangular)	
		3 (IR LED)					Yes (4 areas)
Illuminator Number		Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°			Region of Interest(RoI)		
Lens	Pan/Tilt/Rotation Range		Pan: 0 –355 ; Titt: 0 –65 ; Rotation: 0 –355			Smart Illumination	7es 0°/20°/180°/270° (Support 90°/270° with 1020 × 1080
Lens Type		Fixed-focal			Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)	
Mount Type		M12			Mirror	Yes	
Focal Length		2.8 mm; 3.6 mm; 6 mm			Privacy Masking	4 areas	
Max. Aperture		F1.6			Audio		
		2.8 mm: Horizontal:103°; vertical: 55°; diagonal: 122°			Audio Compression	G.711a; G.711Mu; G726	
Field of View	Field of View		3.6 mm: Horizontal:84°; vertical: 45°; diagonal: 100° 6 mm: Horizontal:52°; vertical: 28°; diagonal: 61°			Alarm	
Iris Type		Fixed				No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection;	
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.3 ft) 6 mm: 3.2 m (10.5 ft)			Alarm Event	IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD	
	Lens	56.0 m	Observe 22.4 m	11.2 m	Identify 5.6 m	Network	
DORI Distance	2.8mm	(183.7 ft)	(73.5 ft)	(36.8 ft)	(18.4 ft)	Network	RJ-45 (10/100 Base-T)
DOM 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	Perimeter Protection		usion (Recogni	tion of human	and vehicle)	Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone;
Video					Interoperability Scene Self-adaptation	Genetec	
		H.265; H.264; H.264H; H.264B; MJPEG(only supported			(SSA)	Yes	
Video Compression		by sub stream)			User/Host	20 (Total bandwidth: 64 M)	
Smart Codec		Smart H.265+/ Smart H.264+			Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)			Browser	IE: IE8, IE9, IE11 Chrome Firefox	
Stream Capability		3 streams			Management Software	Web browser, CMS, Unisight VMS	

Al Network Camera

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			
Port				
Audio Input	1-channel (RCA port)			
Audio Output	1-channel (RCA port)			
Alarm Input	1 channel in: 5mA 3V–5V DC			
Alarm Output	1 channel out: 300mA 12V DC			
Power				

Power Supply	12V DC/PoE (802.3af)
Power Consumption	<7.3W

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; IK10

Structure

Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")
Net Weight	378 g (0.8 lb)
Gross Weight	523 g (1.2 lb)

Ordering Information				
Туре	Part Number	Description		
4MP Camera	IP-4DM-F28-PB	4MP IR Fixed focal Dome Al Network Camera,2.8mm		
	IP-4DM-F36-PB	4MP IR Fixed focal Dome Al Network Camera,3.6mm		
	PFA136	Junction Box		
	PFA200W	Rain Shade		
	PFB203W	Wall Mount		
	PFA152-E	Pole Mount		
	PFA106	Mount Adapter		
Accessories (optional)	PFB220C	Celling Mount		
	PFM321D	DC12V1A Power Adapter		
	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender		
	PFM900-E	Integrated Mount Tester		
	PFM114	TLC SD Card		

Accessories

Optional:



PFA136 Junction Box



PFA200W Rain Shade



PFB203W Wall Mount



PFA152-E Pole Mount



PFA106 Mount Adapter



PFB220C Ceiling Mount



PFM321D DC12V1A Power Adapter



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



PFM900-E Integrated Mount tester



PFM114 TLC SD card

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount			
PFA106+PFB220C			

Dimensions (mm[inch])



