

IP-4DMF-SA

4MP WDR IR Mini Dome Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, max. supports 4MP (2688 × 1520) @ 20 fps
- H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 30 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
- Abnormality detection: Motion detection, video tampering, no SD card,
 SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card
- 12V DC/PoE power support
- IP67, IK10 protectiongrade















System Overview

With updraded H.265 encoding technology, EmPower series camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function and tamper-proof function, complying to the standards of IP67 and IK10.

Functions

Smart (H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, EmPower smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Wide dynamic range (WDR)

EmPower adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back-light environment, bright region and dark region with strong light source, you can also get clear images.

Starlight

EmPower 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.

Intelligent Video Analysis (IVS)

With advanced video algorithm, EmPower camera supports intelligent detection, such as tripwire and intrusion and so on.

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 m (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.





Tec	Technical Specification						
Can	nera						
Image Sensor			1/3" 4Megapixel progressive CMOS				
Effe	Effective Pixels		2688 (H) × 1520 (V)				
ROM	ROM			128 MB			
RAIV	l		128 MB				
Scan	ning System	1	Progressive				
Elect	tronic Shutte	er Speed	Auto/Manual 1/3 s–1/100000 s				
Min.	Illumination	n	0.008 Lux @ F1.6				
IR Di	stance		30 m (98.43 ft)				
IR O	n/Off Contro	ol	Auto/Manual				
IR LE	Ds Number		3				
Pan/	Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–65° Rotation: 0°–355°				
Len	Lens						
Lens	Lens Type		Fixed-focal				
Mou	nt Type		M12				
Foca	Focal Length		2.8 mm 3.6 mm				
Max	. Aperture		F1.6				
Field	Field of View		2.8 mm: Pan: 102.0° Tilt: 55.0° Diagonal: 121.0° 3.6 mm: Pan: 84.0° Tilt: 45.0° Diagonal: 100.0°				
Iris T	уре		Fixed aperture				
Clos	e Focus Dista	ance	2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (5.25 ft)				
		Lens	Detect	Observe	Recognize	Identify	
DOR	I Distance	2.8mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (19.37 ft)	
		3.6mm	80 m (262.47 ft)	32 m (104.99 ft)	16 m (52.49 ft)	8 m (26.25 ft)	
Sma	art Event						
Gene	General IVS Analytics		Tripwire; intrusion				
Vide	Video						
Vide	Video Compression		H.265; H.264; H.264B; MJPEG				
Sma	Smart Codec		Yes				
Video Frame Rate		Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					
Strea	Stream Capability		2 streams				

Resolution	2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 ×480); CIF (352 × 288/352 × 240)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D DNR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest(RoI)	Yes (4 areas)		
Smart IR	Yes		
Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688 $\times1520$ resolution and lower.)		
Mirror	Yes		
Privacy Masking	4 areas		
Network			
Network	RJ-45 (10/100 Base-T)		
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour		
Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec		
User/Host	20		
Edge Storage	P2P; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS		
Browser	IE Chrome Firefox		
Management Software	Web browser, CMS, Unisight VMS		
Mobile Phone	IOS; Android		
Certification			
Certifications	CE-LVD: EN60950-1 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			

12V DC/PoE (802.3af)

< 5.2W

Power Supply

Power Consumption



Environment

Operating Conditions	-40°C to +60°C (-40 °F to +140°F)/less than ≤ 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection Grade	IP67; IK10		

Structure

Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.19" × Φ4.33")
Net Weight	0.350 kg (0.77 lb)
Gross Weight	0.491 kg (1.08 lb)

Ordering Information

Ordering information				
Туре	Part Number	Description		
4MP	PAL	4MP WDR IR Mini Dome Network Camera,PAL		
Camera	NTSC	4MP WDR IR Mini Dome Network Camera,NTSC		
	PFA136	Junction Box		
	PFA200W	Rain Shade		
	PFB203W	Wall Mount		
	PFA152-E	Pole Mount		
Accessories	PFA106	Mount Adapter		
(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



PFA152-E Pole Mount



PFA200W Rain Shade



PFA106 Mount Adapter



PFB203W Wall Mount



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

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

Dimensions (mm[inch])



