

DH-IPC-MFW5241T2-E3-ASE

3 × 2 MP Triple-Sight Perimeter Protection Bullet WizMind Network Camera





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

The Triple-Sight Long Range Perimeter Protection Bullet WizMind Network Camera leverages its deep learning algorithms and multichannel ultra-long-range perimeter detection technology to accurately detect targets over long ranges and accurately classify humans and vehicles. By employing Micro-PTZ and illumination by area technology, the monitoring range and illumination can be precisely adjusted, enhancing the quality of images and the effectiveness of intelligent detection. The camera is dustproof, waterproof and vandal-proof, and has IP67 and IK10 certification.

Functions

Long-Range Perimeter Protection

The camera features long-range perimeter protection that reaches up to 100 meters by leveraging multi-channel fusion and illumination by area technology. With deep learning algorithm, Dahua 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 and intrusion) are largely reduced.

Illumination by Area

This technology allows you to independently control the lighting in multiple areas of the image, enabling the device to easily adapt to different scenes, save power and perform more efficiently.

AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

- \cdot 3 × 2MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@25 fps through channel1-3.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in 8 IR LEDs, and the max. illumination distance is up to 100 m.
- Supports long-range perimeter protection. The camera can detect humans and vehicles up to 100 m away and more.
- WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports Perimeter Protection, including Intrusion and tripwire (the two functions 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, and voltage detection.
- Alarm: 2 in, 2 out; audio: 1 in, 1 out; supports max. 1TB Micro SD card; built-in dual Mic and speaker, supports two-way talk.
- ePoE.
- IP67 and IK10 protection.











Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 work normally 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Camera	
Image Sensor	Channel 1-3: 1/2.8" CMOS
Max. Resolution	Channel 1-3: 1920 (H) × 1080 (V)
ROM	4 GB
RAM	2 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	Channel 1: 0.0007 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W,30 IRE) 0 lux (Illuminator on) Channel 2: 0.004 lux@F2.0 (Color, 30 IRE) 0.0005 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on) Channel 3: 0.008 lux@F2.8 (Color, 30 IRE) 0.0008 lux@F2.8 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	Up to 100 m (328.08 ft) (IR)
Illuminator On/Off Control	Auto;Manual
Illuminator Number	8 (IR LED)
Angle Adjustment	Triaxial adjustment: Pan: 0°–360° Tilt: 0°–70° Rotation: 0°–360° Micro PTZ: Tilt:-5°–10°
Gradienter	The horizontal gradient is visualized, simplifying installation.
Lens	
Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	Channel 1: 3.6 mm Channel 2: 12 mm Channel 3: 25 mm
Max. Aperture	Channel 1: F1.6 Channel 2: F2.0 Channel 3: F2.8
Field of View	Channel1: D: 100.4°; H: 85.9°; V: 46.7° Channel2: D: 29.5°; H: 25.7°; V: 14.4° Channel3: D: 14.9°; H: 13°; V: 7.4°
Iris Control	Channel 1-3: Fixed
Close Focus Distance	Channel 1: 1.1 m (3.61 ft) Channel 2: 8.6 m (28.22 ft) Channel 3: 19.6 m (64.30 ft)

Lens	Detect	Observe	Recognize	Identify
Channel 1	53.7 m	21.5 m	10.7 m	5.4 m
	(176.18 ft)	(70.54 ft)	(35.10 ft)	(17.72 ft)
Channel 2	172.4 m	69.0 m	34.5 m	17.2 m
	(565.62 ft)	(226.38 ft)	(113.19 ft)	(56.43 ft)
Channel 3	331.0 m	132.4 m	66.2 m	33.1 m
	(1085.96 ft)	(434.38 ft)	(217.19 ft)	(108.60 ft)
	Channel 1 Channel 2	Channel 1 53.7 m (176.18 ft) Channel 2 172.4 m (565.62 ft) Channel 3 331.0 m	Channel 1 53.7 m (176.18 ft) 21.5 m (70.54 ft) Channel 2 172.4 m 69.0 m (226.38 ft) Channel 3 331.0 m 132.4 m	Channel 1

*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/ project design tool.

Intelligence

Intelligence Notes	Channel 1–3: Perimeter protection *Alarms are output through channel 1.
IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.

Video		
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by sub stream)	
Video Frame Rate	Channel 1-3: Main stream: 1920 × 1080@(1–25 fps) sub stream: 704 × 576@(1–25 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Stream Capability	2 streams	
Resolution	Channel 1-3: 1080p (1920 × 1080)	
Bit Rate Control	VBR;CBR	
Video Bit Rate	Channel 1-3: H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps	
Day/Night	Auto(ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	DWDR	
Scene Self-adaptation (SSA)	Yes	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto/Manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (RoI)	Yes (4 areas)	
Illumination By Area	Yes, 6 areas	
Smart Illumination	Yes	
Defog	Yes	
Privacy Masking	8 areas	

	A 1:	
	Audio	
	Built-in MIC	Yes, built-in dual Mic
	Built-in Speaker	Yes, built-in speaker
	Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
	Alarm	
	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; security exception; scene changing; audio detection; voltage detection; external alarm
	Network	
	Network Port	RJ-45 (10/100 Base-T)
	SDK and API	Yes
	Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P; Bonjour
	Cyber Security	Video encryption;Firmware encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;IP/MAC filtering;Generation and importing of X.509 ce rtification;syslog;HTTPS;802.1x;Trusted boot;Trusted execution;Trusted upgrade;Session security;Security warning
	Interoperability	ONVIF (Profle S & Profle G & Profle T & Profle M); CGI
	User/Host	20 (Total bandwidth: 80 M)
	Storage	FTP; SFTP; Micro SD card (support max. 1 TB); NAS
	Browser	IE: IE 9 and later Edge: Edge 79 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later
	Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
	Certification	
	Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
	Port	
	RS-485	1 (baud rate range: 1200 bps–115200 bps)
	Audio Input	1 channel (RCA port)
	Audio Output	1 channel (RCA port)
	Alarm Input	2 channels in: wet contact, 5 mA 3–5 VDC
	Alarm Output	2 channels out: wet contact, 300 mA 12 VDC
	Power Output	12 VDC power output, max. current 165 mA, peak current 700 mA
	Power	
	Power Supply	12 VDC (±30%); PoE+(802.3at); ePoE
	Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.
	Power Consumption	Basic: 4.3 W (12 VDC); 5.5 W (PoE) Max.: 22.1 W (12 VDC); 23.6 W (PoE) (intelligence on + IR on + speaker on)

Environment		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤95% (RH), non-condensing	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Storage Humidity	≤95% (RH), non-condensing	
Protection	IP67; IK10	
Structure		
Casing Material	Metal	
Product Dimensions	278.6 mm × 124.0 mm × 140.4 mm (10.97" × 4.88" × 5.53") (L × W × H)	
Net Weight	2.4 kg (5.29 lb)	

3.06 kg (6.75 lb)

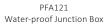
Gross Weight

Ordering Information			
Туре	Model	Description	
2MP Camera	DH-IPC-MFW5241T2P-E3- ASE	3 × 2 MP Triple-Sight Perimeter Protection Bullet WizMind Network Camera	
	PFA121	Water-proof Junction Box	
	PFA156	Pole Mount Bracket	
Accessories (Optional)	PFM320D	12 VDC 2 A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	

Accessories

Optional:







PFA156 Pole Mount Bracket



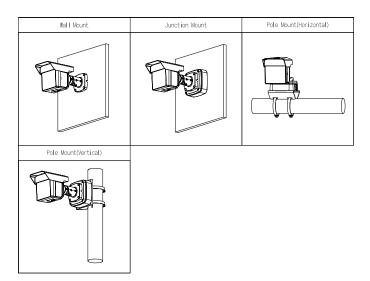
PFM320D 12 VDC 2 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

