

# 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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#### **Technical Specification** Camera Image Sensor Channel 1-3: 1/2.8" CMOS Max. Resolution Channel 1-3: 1920 (H) × 1080 (V) ROM 4 GB 2 GB RAM Scanning System Progressive Auto/Manual 1/3 s-1/100,000 s **Electronic Shutter Speed** 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) Min. Illumination 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) Triaxial adjustment: Pan: 0°-360° Tilt: 0°–70° Angle Adjustment Rotation: 0°-360° Micro PTZ: Tilt:-5°-10° The horizontal gradient is visualized, simplifying Gradienter installation. Lens Lens Type Fixed-focal Lens Mount M12 Channel 1: 3.6 mm Channel 2: 12 mm Focal Length Channel 3: 25 mm Channel 1: F1.6 Channel 2: F2.0 Max. Aperture Channel 3: F2.8 Channel 1: V: 100.4°; H: 85.9°; D: 46.7° Field of View Channel 2: V: 29.5°; H: 25.7°; D: 14.4° Channel 3: V: 14.9°; H: 13°; D: 7.4° Iris Control Channel 1-3: Fixed Channel 1: 1.1 m (3.61 ft) **Close Focus Distance** Channel 2: 8.6 m (28.22 ft) Channel 3: 19.6 m (64.30 ft)

	Lens	Detect	Observe	Recognize	Identify		
DORI Distance	Channel 1	53.7 m ( 176.18 ft)	21.5 m (70.54 ft)	10.7 m (35.10 ft)	5.4 m (17.72 ft)		
	Channel 2	172.4 m (172.4 ft)	69.0 m (226.38 ft)	34.5 m (113.19 ft)	17.2 m (56.43 ft)		
	Channel 3	331.0 m (1085.96 ft)	132.4 m (434.38 ft)	66.2 m (217.19 ft)	33.1 m (108.60 ft)		
	*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		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	Yes				
HLC		Yes	Yes				
WDR		DWDR					
Scene Self-ad (SSA)	daptation	Yes					
White Baland	ce	Auto; natural; street lamp; outdoor; manual; regional custom					
Gain Control		Auto/Manual					
Noise Reduc	tion	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					

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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 kg (4.41 lb)		
Gross Weight	2.64 kg (5.82 lb)		

Ordering Information					
Туре	Model	Description			
2MP Camera	DH-IPC-MFW5241T2P-E3- ASE	3 × 2 MP Triple-Sight Perimeter Protection Bullet WizMind Network Camera			
	PFA124	Water-proof Junction Box			
	PFA156	Pole Mount Bracket			
Accessories (Optional)	PFM320D	12 VDC 2 A Power Adapter			
	РҒМ900-Е	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

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### Accessories

#### Optional:



PFA124 Water-proof Junction Box



PFA156 Pole Mount Bracket

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TF-P100

MicroSD Memory Card



PFM320D 12 VDC 2 A Power Adapter





### Dimensions (mm[inch])



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