

VKD MH4535W4G

4MP IR Fixed-focal Bullet WizSense 4G Network Camera



Series Overview

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Quick Pick, and AI SSA (AI Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

Functions

SMD

With intelligent algorithm, Dahua 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.

4G

With a built-in high-performance 4G mobile network module, the camera can be directly registered to cloud platforms after a 4G SIM card has been inserted into it. It can be installed anywhere without the hassle of network cables. Users can perform real-time monitoring and remote control of the camera from a mobile client through 4G network.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua 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.

- 4-MP 1/3" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light/IR LED.
- Sound and light alarm linkage. When the alarm is triggered, the sound and light will be linked.
- Built in high-performance 4G Module that suits all mobile networks. Installation is no longer limited to wired networks. Please test the local 4G network with the camera before use.
- Built-in PIR sensor that detects human body through passive infrared which is sensitive to body temperature.
- Built-in 8 GB eMMC memory chip that protects key records from being lost.
- Abnormality detection: Motion detection, video tampering, audio detection, SD card full, SD card error, network disconnection, IP conflict and illegal access.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; RS485:1 (Only report the information of solar battery, such as power and battery level), Supports max. 256 G Micro SD card; built in MIC and speaker; support two-way talk.
- IP67 protection.



Perimeter Protection

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, intrusion) are largely reduced.

Protection (IP67)

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.

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.

Technical Specification									
Camera									
Image Sensor		1/3" CMOS							
Max. Resolution		2688 (H) × 1520 (V)							
ROM		128MB							
RAM		256MB							
Scanning System		Progressive							
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s							
Min. Illumination		0.01 Lux@F1.6 (Color,30IRE) 0.001 Lux@F1.6 (B/W,30IRE) 0 lux (Illuminator on)							
S/N Ratio		>56 dB							
Illumination Distance		IR: 50 m (164.04 ft) Warm light: 30 m (98.43 ft)							
Illuminator On/Off Control		Auto;Manual							
Illuminator Number		1 (IR LED); 1 (Warm light)							
Angle Adjustment		Pan: 0°–360° Tilt: -60°–0° Rotation: 0°–360°							
PIR Sensor Distance		10 m (the height of device is 2.5 m, placed horizontally) 5 m (the height of the device is 2 m, placed at an angle of 30° from the horizontal)							
Lens									
Lens Type		Fixed-focal							
Lens Mount		M12							
Focal Length		2.8 mm; 3.6 mm; 6 mm							
Max. Aperture		2.8 mm: F1.6 3.6 mm: F1.6 6 mm: F1.6							
Field of View		2.8 mm: H: 102°; V: 54°; D:121° 3.6 mm: H: 84°; V: 42°; D:101° 6 mm: H: 52°; V: 48°; D:61°							
Iris Control		Fixed							
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.7 m (5.58 ft) 6 mm: 3.2 m (10.50 ft)							
DORI Distance	Lens		Detect	Observe	Recognize				
	2.8 mm		63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)				
	3.6 mm		85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)				
	6 mm		124.0 m (406.82 ft)	49.6m (162.73 ft)	24.8m (81.36 ft)				
Video									
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)							
Video Frame Rate		Main stream: 2688 × 1520 @ (1–25/30 fps) sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps) Sub stream 1: 1920 × 1080 @ (1–25/30 fps)							
Stream Capability		3 streams							
Resolution									
4M (2688 × 1520); 4M (2560 × 1440); 3M (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–8192 kbps H.265: 32 kbps–8192 kbps									
Day/Night									
Auto(ICR)/Color/B/W									
BLC									
Yes									
HLC									
Yes									
WDR									
120 dB									
Scene Self-adaptation (SSA)									
Yes									
White Balance									
Auto; natural; street lamp; outdoor; manual; regional custom									
Gain Control									
Auto									
Noise Reduction									
3D NR									
Motion Detection									
OFF/ON (4 areas, rectangular)									
Region of Interest (RoI)									
Yes (4 areas)									
Smart Illumination									
Yes									
Mirror									
Yes									
Privacy Masking									
4 areas									
Audio									
Built-in MIC									
Yes									
Built-in Speaker									
Yes									
Audio Compression									
G.711a;G.711Mu; G.726; PCM									
Alarm									
Alarm Event									
SD card error; SD card full; IP conflict; illegal access; motion detection; video tampering; Scene Changing; audio detection; security exception; PIR alarm; external alarm; low battery alarm; light alarm; sound alarm									
Network									
Network Port									
RJ-45 (10/100 Base-T)									
LTE FDD:B1/3/5/7/8/20/28 LTE TDD:B38/40/41 WCDMA:B1/5/8 GSM/GPRS/EDGE:B3/5/8									
Frequency									
SDK and API									
Yes									
Cyber Security									
Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade									
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									
Interoperability									
ONVIF (Profile S/Profile G); CGI									
User/Host									
20 (Total bandwidth: 80 M)									

Storage	Bulit in eMMC (8 GB); FTP;SFTP; Micro SD card (support max. 256 GB); NAS
Browser	IE Chrome Firefox
Management Software	DSS; DMSS
Mobile Client	iOS; Android

Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; CE-RED: Radio Equipment Directive 2014/53/EU; FCC: 47 CFR FCC Part 15; Subpart B
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Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5 mA 3–5 VDC
Alarm Output	1 channel out: 300 mA 12 VDC
RS-485	1 (Only report the information of solar battery, such as power and battery level)

Power

Power Supply	12 VDC
Power Consumption	Sleep Mode: 0.03 W General Mode: 4 W Power Saving Mode: 2 W Max. (4G pulling stream+IR+speaker+warning light): 7.5 W

Environment

Operating Temperature	–40 °C to +60 °C (–40 °F to +140 °F)
Operating Humidity	≤ 95%
Storage Temperature	–40 °C to +60 °C (–40 °F to +140 °F)
Protection	IP67

Structure

Casing	Metal + plastic
Product Dimensions	132 mm × 219 mm×179 mm (5.20" × 8.62" × 7.05") (L × W × H)
Packaging Dimensions	280 mm × 239 mm × 146 mm (11.02" × 9.41" × 5.75") (L × W × H)
Net Weight	680 g (1.50 lb)
Gross Weight	1180 g (2.60 lb)

Accessories

Included:



PFB121W
Wall Mount
Bracket

Optional:



PFA162
Universal
Joint



PFA150
Pole Mount
Bracket



PFA121
Water-proof Junction
Box



PFA156
Pole Mount
Bracket



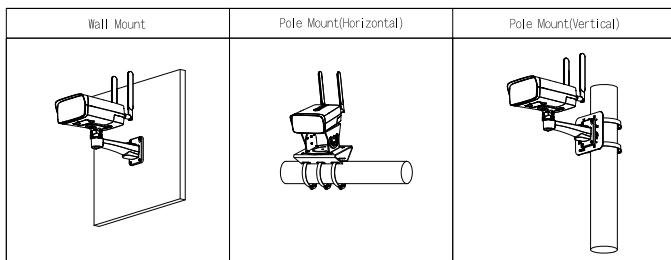
PFM900-E
Integrated
Mount Tester



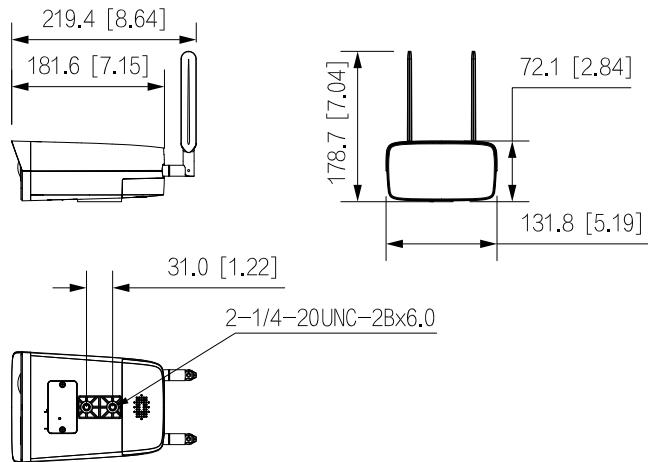
TF-P100
MicroSD
Memory Card



PFM321D
12 VDC 1A
Power Adapter



Dimensions (mm[inch])



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