



- 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: 40 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, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 G Micro SD card · 12V DC/POE power supply
- IP67, IK10 protection
- SMD Plus

THC4MIPDAI

4MP IR Vari-focal Dome Network Camera



Functions

SMD Plus

With intelligent algorithm, 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, 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, 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.

Starlight

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.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

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 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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera	
Image Sensor	1/3"4Megapixel progressive CMOS
Max. Resolution	2688 (H) ×1520 (V)
ROM	128 MB
RAM	512 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s
Min. Illumination	0.005 Lux@F1.5
S/N Ratio	> 56 dB
Illumination Distance	40 m (131.23 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	2 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°–355°; Tilt: 0°–75°; Rotation: 0°–355
Lens	
IP Camera Input	Motorized vari-focal

Mount Type	φ14				
Focal Length	2.7 mm–13.5 mm				
Max. Aperture	F1.5				
Field of View	Horizontal: 104°–27° Vertical: 55° –15° Diagonal: 124° –31°				
Iris Type	Fixed				
Close Focus Distance	0.8 m (2.6 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	64.0 m	25.6 m	12.8 m	6.4 m
	T	222.0 m	88.8 m	44.4 m	22.2 m
Professional, Intelligent					
Perimeter Protection	Tripwire; intrusion (Recognition of human and vehicle)				
Intelligent 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)				
Smart Codec	Smart H.265+/ Smart H.264+				
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)				
Stream Capability	3 streams				
Resolution	4M (2688 × 1520); 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: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 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 Illumination	Yes				
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)				
Mirror	Yes				
Privacy Masking	4 areas				
Alarm					
Alarm Event	No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection;scene changing; intensity change; tripwire; intrusion; SMD				
Network					
Network	RJ-45 (10/100 Base-T)				
SDK and API	Yes				
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;PP-				
Interoperability	PoE;802.1x;SNMP ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec				
Scene Self-adaptation	Yes				
User/Host	20 (Total bandwidth: 64 M)				
Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS				
Browser	IE: IE8, IE9, IE11 Chrome Firefox				
Management Software	Smart PSS, DSS, DMSS				
Mobile Phone	IOS; Android				
Certification					
Certification	CE-LVD: EN62368-1				

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Certification	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
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	<8.5W
Environmental	
Operating Conditions	-30°C to +60°C (-22°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	Φ122 mm × 88.9 mm (Φ4.8" × 3.5")
Net Weight	492 g (1.1 lb)
Gross Weight	663 g (1.5 lb)



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