



5MP WDR IR Eyeball Network Camera



System Overview

The IR Megapixel Fixed camera delivers 5MP resolution with a 2.8mm/3.6mm fixed lens. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

Functions

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

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

Intelligent Video Analysis (IVS)

Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

- · 1/2.7" 5Megapixel progressive CMOS
- · H.265& H.264 dual-stream encoding
- · 15fps@5M(2592×1944) &25/30fps@3M(2304×1296)
- · WDR(120dB), Day/Night(ICR), 3DNR, HLC, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS)DMSS
- · 2.8 mm fixed lens (3.6mm optional)
- · Max IR LEDs Length 30m
- · IP67, PoE











Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30m (98ft).

Protection (IP67, wide voltage)

The camera allows for $\pm 25\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) , the camera is the choice for installation in even the most unforgiving environments.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -30° C to +60° C (-22° F to +140° F) with 95% humidity.

Image Flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.





Technical Specification						Bit Rate	H.265: 12K ~ 8448Kbps
Camera						H.264: 32K ~ 10240Kbps	
Image Sensor		1/2.7" 5Megapixel progresive CMOS				Day/Night	Auto(ICR) / Color / B/W
Effective Pixels		2592(H) x1944(V)				BLC Mode	BLC / HLC / WDR(120dB)
RAM/ROM		512MB/32MB				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Scanning System		Progressive				Gain Control	Auto/Manual
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Noise Reduction	3D DNR
Electronic Shatter Speed		0.03Lux/F2.0(Color, 1/3s, 30IRE)				Motion Detection	Off / On (4 Zone, Rectangle)
Minimum Illumination		0.3Lux/2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)				Region of Interest	Off / On (4 Zone)
S/N Ratio		More than50dB				Electronic Image Stabilization	N/A
IR Distance		Distance up to 30m(98ft)				(EIS) Smart IR	Support
IR On/Off Control		Auto/ Manual					
IR LEDs		12				Digital Zoom	16x
Lens						Flip	0°/90°/180°/270°
Lens Type		Fixed				Mirror	Off / On
Mount Type		Board-in				Privacy Masking	Off / On (4 Area, Rectangle)
Focal Length		2.8 mm (3.6 mm optional)				Audio	
Max. Aperture		F2.0/F2.0				Compression	N/A
Angle of View		H:96°/78°, V:70°/58°				Network	
Focus Control		Fixed				Ethernet	RJ-45 (10/100Base-T)
Close Focus Distance		N/A				Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;QoS;UPnP; NTP;Bonjour;IEEE 802.1X;Multicast;ICMP;IGMP;TLS
	Lens	Detect	Observe	Recognize	Identify	Interoperability	ONVIF Profile S&G, API
DORI Distance	2.8 mm	63(207ft)	25(82ft)	13(43ft)	6(20ft)	Streaming Method	Unicast / Multicast
	3.6 mm	80(262ft)	32(105ft)	16(52ft)	8(26ft)	Max. User Access	10 Users / 20 Users
PTZ						Edge Storage	NAS
Pan/Tilt Range		Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°					Local PC for instant recording
Intelligence	<u>!</u>					Web Viewer	IE, Chrome, Firefox, Safari
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, Ip address conflict, Illegal				Management Software	Smart PSS, DSS, DMSS
rvent mgget		access, Storage anomaly				Smart Phone	IOS, Android
IVS		Tripwire, Intrusion				Certifications	
Video						Certifications	CE (EN 60950:2000) UL:UL60950-1
Compression		H.265/H.264H/MJPEG(Sub Stream)				Interface	FCC: FCC Part 15 Subpart B
Smart Codec		Support H.265+/H.264+					N/A
Streaming Capability		2 Streams				Video Interface	
Resolution		5M(2592×1944)/4M(2688x1520)/3M(2304×1296/2048 x1536)/1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)				Audio Interface	N/A
						RS485	N/A
Frame Rate		Main Stream: 5M(1 ~ 15fps)/3M (1 ~ 25/30fps)				Alarm	N/A
		Sub Stream: D1(1 ~ 25/30fps)				Electrical	
Bit Rate Control		CBR/VBR				Power Supply	DC12V, PoE (IEEE 802.3af)(Class 0)
						Power Consumption	< 6W

Power Consumption



Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal+Plastic	
Dimensions	Ф108mm×84.9mm(4.25"x3.15")	
Net Weight	0.23Kg(0.51lb)	
Gross Weight	0.387Kg(0.85lb)	

Accessories

Optional:







Wall mount



PFA152-E Pole mount

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Dimensions (mm/inch)







