

DH-IPC-HDW1631EMP-0280B

6MP IR Eyeball Network Camera



System Overview

With upgraded H.265 encoding technology, Lite Series brings high efficient video compression capability. It can save bandwidth and storage. Meanwhile, the series features starlight, smart IR technology and intelligent image analysis techniques. This series supports reminder function, meanwhile fully protected from dust and water, certified to IP67.

Functions

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.

Intelligent Video analysis (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

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. An optional heater module extends the multi-sensor camera's temperature range to -40° C to +60° C (-40° F to +140° F), allowing the camera to operate in the harshest environments.

- · 1/2.9" 6Megapixel progressive scan STARVIS[™] CMOS
- · H.265&H.264 triple-stream encoding
- · 20fps@6MP(3072x2048), 25/30fps@4MP(2688x1520)
- · Smart detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens
- Built-in Mic
- Max. IR LEDs Length 50m
- IP67, PoE



Protection (IP67, wide voltage)

The camera allows for $\pm 30\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV 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.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec 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 H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



Lite Serise | DH-IPC-HDW1631EMP-0280B

Technical Specification

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Camera				
Image Sensor	1/2.9" 6Megapixel progressive scan CMOS			
Effective Pixels	3072(H) x 2048(V)			
RAM/ROM	512MB/32MB			
Scanning System	Progressive			
Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/100000s			
Minimum Illumination	0.04Lux/F1.6(Color,1/3s,30IRE) 0.4Lux/F1.6(Color,1/30s,30IRE) 0Lux/F1.6(IR on)			
S/N Ratio	More than 50dB			
IR Distance	Distance up to 50m (164ft)			
IR On/Off Control	Auto/ Manual			
IR LEDs	1			
Lens				
Lens Type	Fixed			
Mount Type	Board-in			
Focal Length	2.8mm			
Max. Aperture	F1.6			
Angle of View	H: 98° , V: 67°			
Optical Zoom	N/A			
Focus Control	Fixed			
Close Focus Distance	0.9m (1.7m)			
Lens DORI Distance	Detect Observe Recognize Identify			
2.8 mm	69m(226ft) 28m(92ft) 14m(46ft) 7m(23ft)			
Pan/Tilt/Rotation				
Pan/Tilt/Rotation Range	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°			
Intelligence				
IVS	Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intelligent Functions	Face Detection			
Video				
Compression	H.265+/H.265/H.264+/H.264			
Streaming Capability	3 Streams			
Resolution	(3072×2048)/(3072×1728)/(2592×1944)/ (2688×1520)/(2560×1440)/ (2304×1296)/1080P(1920×1080)/ SXGA(1280×1024)/1.3M(1280× 960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)			
	Main Stream: 6MP (1~20fps), 4MP(1~25/30fps)			
Frame Rate	Sub Stream: D1(1~25/30fps)			
	Third Stream: 1080P(1~25/30fps)			
Bit Rate Control	CBR/VBR			

White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	Support
Defog	N/A
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)
Audio	
Compression	G.711a/ G.711Mu/ AAC/ G.726
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	10 Users /20 Users
Edge Storage	NAS Local PC for instant recording
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, Easy4ip
Smart Phone	IOS, Android
Certifications	
Certifications	RCM
Interface	
Video Interface	N/A
Audio Interface	Built-in Mic
RS485	N/A
Alarm	N/A
Electrical	
Power Supply	DC12V, PoE (802.3af)(Class 0)
Power Consumption	<6W

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Environmental

Operating Conditions	-40° C $^{\sim}$ +60° C (-40° F $^{\sim}$ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	N/A
Construction	
Casing	Metal
Dimensions	Ф106mm×93.7mm (4.17"×3.69")
Net Weight	0.47Kg (1.04lb)
Gross Weight	0.65Kg (1.43lb)

Ordering Information

Туре	Part Number	Description
6MP camera	DH-IPC- HDW1631EMP- 0280B	6MP IR Eyeball Network Camera
Accessories (optional)	PFB204W	Wall mount
	PFA139	Junction box
	PFA152-E	Pole Mount

Accessories

Optional:



PFA139

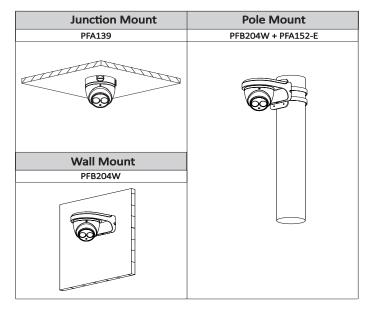
Junction Box



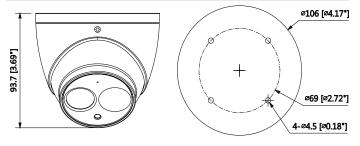


PFB204W Wall Mount

PFA152-E Pole Mount



Dimensions (mm/inch)





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