

DH-IPC-HDW1631EMP-0280B

6MP IR Eyeball Network Camera



- 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
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 2.8mm fixed lens
- Built-in Mic
- Max. IR LEDs Length 50m
- IP67, PoE



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.

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.

Technical Specification

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)				
DORI Distance	Lens	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	(3072x2048)/(3072x1728)/(2592x1944)/ (2688x1520)/(2560x1440)/ (2304x1296)/1080P(1920x1080)/ SXGA(1280x1024)/1.3M(1280x 960)/720P(1280x720)/D1(704x576/704x480)/ CIF(352x288/352x240)
Frame Rate	Main Stream: 6MP (1~20fps), 4MP(1~25/30fps)
	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

Environmental

Operating Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH
Storage Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Φ106mm×93.7mm (4.17"×3.69")
Net Weight	0.47Kg (1.04lb)
Gross Weight	0.65Kg (1.43lb)

Ordering Information

Type	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

Junction Mount	Pole Mount
PFA139	PFB204W + PFA152-E
Wall Mount	
PFB204W	

Dimensions (mm/inch)

