

DH-IPC-HDW1839T-A-IL

8MP Entry Smart Dual Light Fixed-focal Eyeball Network Camera



Series Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry series network camera is applicable to small and medium-sized scenes, such as homes/residences, small-sized retail stores, and other small and medium-sized enterprises.

Functions

Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

Human Detection

Dahua intelligent algorithms extract moving human targets from videos and filters out alarms that are triggered by non-human targets to increase the accuracy and effectiveness of alarms.

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.

Image Flip

For narrow and long scenes, Dahua image flip technology flips the image by $90^{\circ}/180^{\circ}/270^{\circ}$ to realize better surveillance in rotation mode.

- * The parameters and datasheets below can only be applied to 1839-S6 series.
- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160) @20 fps, and supports 2688 × 1520@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max. IR distance is 30 m and the max. warm light distance is 30 m.
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Built in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- · Supports human detection.



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.

Protection (IP67, 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 normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera

Camera						
Image Sensor		1/2.7" CMOS	1/2.7" CMOS			
Max. Resolution		3840 (H) × 2160 (V)				
ROM		128 MB				
RAM		256 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.008 lux@F1.6 (Color, 30 IRE); 0.0008 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)				
S/N Ratio		>56 dB				
Illumination Distance		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)				
Illuminator On/Off Control		Auto;Manual				
Illuminator Number		1 (Multi-core (IR + warm) light)				
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Lens Mount		M12				
Focal Length		2.8 mm; 3.6 mm				
Max. Aperture		F1.6				
Field of View		2.8 mm: H: 110°; V: 58°; D: 132° 3.6 mm: H: 86°; V: 49°; D: 100°				
Iris Control		Fixed				
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 1.9 m (6.23 ft)				
	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	84.8 m (278.22 ft)	33.9 m (111.22 ft)	17.0 m (55.77 ft)	8.5 m (27.89 ft)	
DORI Distance	3.6 mm	98.7 m (323.82 ft)	39.5 m (129.59 ft)	19.7 m (64.63 ft)	9.9 m (32.48 ft)	
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.					
Intelligend	ce					
Human Detection		Support the classification and accurate detection of				

Human Detection	human	
Smart 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 supporte by the sub stream)	
Smart Codec	Smart H.265+; Smart H.264+	

Video Frame Rate	Main stream: $3840 \times 2160@(1-20 \text{ fps})/2688 \times 1520@(1-25/30 \text{ fps})$ Sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be		
	subjected to the total encoding capacity.		
Stream Capability	2 streams		
Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728); 4M (2880 × 1620/2688 × 1520); 3M (2048 × 1536/2304 × 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: 12 kbps–8192 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	DWDR		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D NR		
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 2688 ×1520 resolution and lower)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Built-in MIC	Yes, built-in Mic		
Audio Compression	G.711a; G.711Mu; PCM; G.726		
Alarm			
Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (human); security exception		
Network			
Network Port	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P		
Interoperability	ONVIF (Profile S & Profile T); CGI		
User/Host	6 (Total bandwidth: 48 M)		
Storage	FTP		
Browser	IE; Chrome; Firefox		
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care		
Mobile Client	iOS;Android		

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Cyber Security	Video encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;Generation and importing of X.509 certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade			
Certification				
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU			
Power				
Power Supply	12 VDC/PoE (802.3af)			
Power Consumption	Basic: 2.5 W (12 VDC), 3.5 W (PoE); Max.: 4.5 W (12 VDC), 5.8 W (PoE) (H.265 + intelligence on+ DWDR + illuminator intensity)			
Environment				
Operating Temperature	-40 °C to +55 °C (-40 °F to 131 °F)			
Operating Humidity	≤95%(RH), non-condensing			
Storage Temperature	-40 °C to +55 °C (-40 °F to 131 °F)			
Storage Humidity	≤95%(RH), non-condensing			
Protection	IP67			
Structure				
Casing Material	Metal			
Product Dimensions	85.6 mm × Φ 94.0 mm (3.37" × Φ 3.70")			
Net Weight	0.35 kg (0.77 lb)			
Gross Weight	0.46 kg (1.01 lb)			

Ordering Information

Туре	Model	Description
IP CAMERA	DH-IPC-HDW1839T-A-IL	8MP Entry Smart Dual Light Fixed-focal Eyeball Network Camera
	DH-PFB220C	Ceiling Mount Bracket
	DH-PFA106	Mount Adapter
	DH-PFB305W	Wall mount bracket
	DH-PFA151	Corner mount bracket
	DH-PFA150	Pole Mount Bracket
Accessories (Optional)	DH-PFA152-E	Pole Mount Bracket
Accessories (Optional)	DH-PFB204W	Wall mount bracket
	DH-PFA13A-E	Anti-corrosion Junction box
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM321D-EN	DC12V 1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	Integrated Mount Tester

Accessories

Optional:

DH-PFB220C

Ceiling Mount Bracket

DH-PFA151

Corner mount bracket





DH-PFB305W Wall mount bracket





DH-PFA13A-E

Anti-corrosion Junction

box

Mount Adapter

DH-PFA152-E Pole Mount Bracket



DH-PFM321-EN DC12V1A power adapter



DH-PFB204W

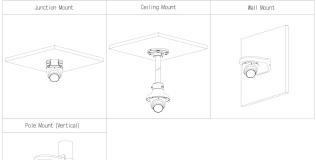
Wall mount bracket



DH-PFM321D-EN DC12V 1A power adapter DC12V2A power adapter

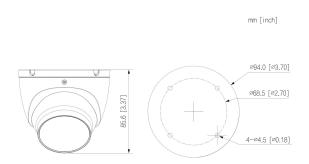
DH-PFM320D-EN

PFM900-E Integrated Mount Tester





Dimensions (mm[inch])



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