

DH-IPC-HDW1639T-A-IL

6MP 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 1639-S6 series.
- 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 6 MP (3200 x 1800) @20 fps, and supports 2688 x 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.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- · 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.

Smart Codec

Smart H.265+; Smart H.264+

Technical	Specification	n						Main stream: 3200 × 1800@(1–20 fps)/2688 ×
Camera							1520@(1-25/30 fps) sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480($	
Image Sensor		1/2.7" CMOS					Video Frame Rate	fps) *The values above are the max. frame rates of
Max. Resolution		3200 (H) × 1800 (V)					stream; for multiple streams, the values will be subjected to the total encoding capacity.	
ROM		128 MB					Stream Capability	2 streams
RAM		256 MB					Resolution	6M (3200 × 1800); 4M (2880 × 1620/2688 × 15
Scanning System		Progressive						(2048 × 1536/2304 × 1296); 1080P (1920 × 10 (1280 × 960); 720P (1280 × 720); D1 (704 × 5
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						480); VGA (640 × 480); CIF (352 × 288/352 × 2
Min. Illumination		0.007 lux@F1.6 (Color, 30 IRE); 0.0007 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)					Bit Rate Control Video Bit Rate	VBR;CBR H.264: 32 kbps–8192 kbps; H.265: 12 kbps–8192 kbps
S/N Ratio		>56 dB					Day/Night	Auto(ICR)/Color/B/W
		Up to 30 m (98.43 ft) (IR)					BLC	Yes
Illumination Distance		Up to 30 m (98.43 ft) (Warm light)					HLC	Yes
Illuminator On/Off Control		Auto;Manual					WDR	DWDR
Illuminator Number		1 (Multi-core (IR + warm) light) Pan: 0°–360°;					White Balance	Auto; natural; street lamp; outdoor; manual; recustom
Angle Adjustment		Tilt: 0°-78°; Rotation: 0°-360°					Gain Control	Auto/Manual
Lens							Noise Reduction	3D NR
Lens Type		Fixed-focal					Motion Detection	OFF/ON (4 areas, rectangular)
Lens Mount		M12					Region of Interest (RoI)	Yes (4 areas)
Focal Length		2.8 mm; 3.6 mm				:	Smart Illumination	Yes
Max. Aperture		F1.6					Smart Dual Light	Yes
Field of View		2.8 mm: H: 110°; V: 58°; D: 132° 3.6 mm: H: 91°; V: 46°; D: 110°					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 268 resolution and lower)
Iris Control		Fixed					Mirror	Yes
Close Focus Distance		2.8 mm: 1.1 m (3.61 ft)					Privacy Masking	4 areas
	1	3.6 mm: 1.7 m (5.58 ft)				Audio		
	Lens	Detect	Observe	Recognize	Identify		Built-in MIC	Yes, built-in Mic
	2.8 mm	63.6 m (208.66 ft)	25.4 m (93.33 ft)	12.7 m (41.67 ft)	6.4m (21.00 ft)		Audio Compression	G.711a; G.711Mu; PCM; G.726
DORI Distance	3.6 mm	85.4 m	34.2 m	17.1 m	8.5 m		Alarm	
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video						Alarm Event	Network disconnection; IP conflict; illegal accedetection; video tampering; audio detection; S (human); security exception
	to distinguish numbers in the For intelligent	is table do no	t reflect intell	igent function	n distances.		Network	
	_	For intelligent function distances, refer to installation and commissioning manual/project design tool.					Network Port	RJ-45 (10/100 Base-T)
Intelligence							SDK and API	Yes
Human Detection		Support the classification and accurate detection of human					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RT RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; MU ICMP; IGMP; P2P
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Interoperability	ONVIF (Profile S & Profile T); CGI
							User/Host	20 (Total bandwidth: 48 M)
Video							Storage	FTP
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				Browser	IE; Chrome; Firefox	

Management Software

Smart PSS Lite; DSS; DMSS; DoLynk Care

Entry Series | DH-IPC-HDW1639T-A-IL

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Mobile Client	iOS;Android				
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 W (12 VDC), 2.9 W (PoE); Max. : 4 W (12 VDC); 5.3 W (PoE) (H.265 + intelligence on+ DWDR + illuminator intensity)				
Environment					
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)				
Operating Humidity	≤95%(RH), non-condensing				
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)				
Storage Humidity	≤95%(RH), non-condensing				
Protection	IP67				
Structure					
Casing Material	Metal				
Product Dimensions	85.6 mm × Φ94.0 mm (3.37" × Φ3.7")				

Ordering Information							
Туре	Model	Description					
IP CAMERA	DH-IPC-HDW1639T-A-IL	6MP Entry Smart Dual Light Fixed-focal Eyeball Network Camera					
	DH-PFB220C	Ceiling Mount Bracket					
	DH-PFA106	Mount Adapter					
	DH-PFA151	Corner mount bracket					
	DH-PFB305W	Wall mount bracket					
	DH-PFA150	Pole Mount Bracket					
Accessories (Ontional)	DH-PFB204W	Wall mount bracket					
Accessories (Optional)	DH-PFA152-E	Pole 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					

0.34 kg (0.75 lb)

0.45 kg (0.99 lb)

Net Weight

Gross Weight

Accessories

Optional:



DH-PFB220C Ceiling Mount Bracket



DH-PFA106 Mount Adapter



DH-PFA151 Corner mount bracket



DH-PFB305W Wall mount bracket



DH-PFA150 Pole Mount Bracket



DH-PFB204W Wall mount bracket



DH-PFA152-E Pole Mount Bracket



DH-PFA13A-E Anti-corrosion Junction



DH-PFM321-EN DC12V1A power adapter



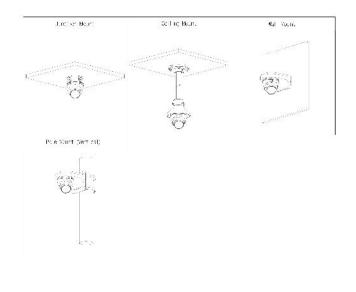
DH-PFM321D-EN



DH-PFM320D-EN DC12V 1A power adapter DC12V2A power adapter



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

