

DH-IPC-HFW1839TC-A-IL

8MP Entry Smart Dual Light Fixed-focal Bullet 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.

* The parameters and datasheets below can only be applied to 1839-SG 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.



Image Flip

For narrow and long scenes, Dahua image flip technology flips the image by 90°/180°/270° to realize better surveillance in rotation mode.

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 ±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					
Image Sensor		1/2.7" CMOS			
Max. Resolution		3840 (H) x 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°~90° 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		2.8mm: H: 110°; V: 58°; D: 132°; 3.6mm: H: 86°; V: 49°; D: 100°			
Iris Control		Fixed			
Close Focus Distance		2.8mm: 1.5 m (4.92 ft); 3.6mm: 1.9 m (6.23 ft)			
DORI Distance	Lens		Detect	Observe	Recognize
	2.8 mm		84.8 m (278.22 ft)	33.9 m (111.22 ft)	17.0 m (55.77 ft)
	3.6 mm		98.7 m (323.82 ft)	39.5 m (129.59 ft)	19.7 m (64.63 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.				
Intelligence					
Human Detection		Support the classification and accurate detection of 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 supported by the sub stream)			
Smart Codec		Smart H.265+; Smart H.264+			
Video Frame Rate			Main stream: 3840 x 2160@(1~20 fps)/2688 x 1520@(1~25/30 fps) Sub stream: 704 x 576@(1~25 fps)/704 x 480@(1~30 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.		
Streaming Capability			2 streams		
Resolution			8M (3840 x 2160); 6M (3072 x 2048); 5M (3072 x 1728); 4M (2880 x 1620/2688 x 1520); 3M (2048 x 1536/2304 x 1296); 1080p (1920 x 1080); 1.3M (1280 x 960); 720p (1280 x 720); D1 (704 x 576/704 x 480); VGA (640 x 480); CIF (352 x 288/352 x 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 x 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			20 (Total bandwidth: 48 M)		
Storage			FTP		
Browser			IE; Chrome; Firefox		
Management Software			Smart PSS Lite; DSS; DMSS; DoLynk Care		

Mobile Client	Android;iOS
Security	HTTPS; Trusted upgrade;Digest; WSSE; Account lockout; Trusted execution; Generation and importing of X.509 certification; Security logs; Trusted boot
Certification	
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Power	
Power Supply	12 VDC ($\pm 30\%$); 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 +60 °C (-40 °F to +140 °F)
Operating Humidity	$\leq 95\%$ (RH), non-condensing
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	$\leq 95\%$ (RH), non-condensing
Protection	IP67
Anti-corrosion Level	Basic Protection *The products are designed for general use and are applicable even in areas with no specific requirements for anti-corrosion protection.
Structure	
Casing Material	Metal
Product Dimensions	176.9 mm x 70.0 mm x 70.0 mm (6.96" x 2.76" x 2.76") (L x W x H)
Net Weight	0.45 kg (0.99 lb)
Gross Weight	0.57 kg (1.26 lb)

Ordering Information

Type	Model	Description
Accessories (Optional)	DH-IPC-HFW1839TC-A-IL	8MP Entry Smart Dual Light Fixed-focal Bullet Network Camera
	DH-PFA130-E	Water-proof Junction Box
	DH-PFA151	Corner Mount Bracket
	G3416GW	G3/4" Water Joint
	DH-PFA152-E	Pole Mount Bracket
	DH-PFA134	Junction Box
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	Integrated Mount Tester

Accessories

Optional:



DH-PFA130-E
Water-proof Junction Box



DH-PFA134
Junction Box



DH-PFA151
Corner Mount Bracket



DH-PFA152-E
Pole Mount Bracket



DH-PFM320D-EN
DC12V2A power adapter



DH-PFM321-EN
DC12V1A power adapter



G3416GW
G3/4" Water Joint



PFM900-E
Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)
A diagram showing a camera mounted on a ceiling bracket, which is attached to a horizontal ceiling joist.	A diagram showing a camera mounted on a wall bracket, which is attached to a vertical wall surface.	A diagram showing a camera mounted on a vertical pole bracket, which is attached to a vertical pipe or pole.

Dimensions (mm[inch])

