

DH-IPC-HFW1439TC1-SA-IL

4MP 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 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.

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.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 4 MP (2560 ×1440)@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.
- WDR, 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.
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict and illegal access
- · Supports max. 256 G Micro SD card; 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.

by sub stream)

Technical Specification				Smart Codec	Smart H.265+; Smart H.264+			
Camera								Main stream: 2560 × 1440@(1–25/30 fps)
Image Sensor		1/2.9" CMOS				Video Frame Rate	sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)	
Max. Resolution		2560 (H) × 1440 (V)			video Frame Rate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be		
ROM		128 MB					subjected to the total encoding capacity.	
RAM		128 MB					Stream Capability	2 streams
Scanning Sys	tem	Progressive					4M (2560 × 1440); 3M (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)	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Resolution		
Min. Illumination		0.006 lux@F1.6 (Color, 30 IRE) 0.0006 lux@F1.6 (B/W, 30 IRE)					Bit Rate Control	CBR/VBR
C/N D-H-		0 lux (Illuminator on)					Video Bit Rate	H.264: 32 kbps–4096 kbps; H.265: 12 kbps–4096 kbps
S/N Ratio		>56 dB				Day/Night	Auto(ICR)/Color/B/W	
Illumination Distance		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)				BLC	Yes	
Illuminator C	On/Off Control	Auto;Manual					HLC	Yes
Illuminator N	lumber	1 (Multi-core	(IR + warm) lig	ht)			WDR	120 dB
Angle Adjustment		Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360°				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Long		Rotation: 0 to 360					Gain Control	Auto/Manual
Lens Type		Fixed-focal					Noise Reduction	3D NR
Lens Mount		M12					Motion Detection	OFF/ON (4 areas, rectangular)
Focal Length		2.8 mm; 3.6 mm				Region of Interest (RoI)	Yes (4 areas)	
Max. Apertu		F1.6				Smart Illumination	Yes	
		2.8 mm: H: 94°; V: 51°; D: 110°				Smart Dual Light	Yes	
Field of View	l	3.6 mm: H: 78°; V: 40°; D: 93°				Image Rotation	0°/180°	
Iris Control		Fixed				Mirror	Yes	
Close Focus I	Distance	2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (5.58 ft)				Privacy Masking	4 areas	
	Lens	Detect	Observe	Recognize	Identify		Audio	
	2.0	64.0 m	25.6 m	12.8 m	6.4 m		Built-in MIC	Yes, built-in Mic
	2.8 mm	(209.97 ft)	(83.99 ft)	(41.99 ft)	(21.00 ft)		Audio Compression	G.711a; G.711Mu; PCM; G.726
DOBI	3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)		Alarm	
DORI Distance	*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				ard system g the d area.		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (human)
	distances. Fo	r intelligent fur	nction distance	es, refer to ins			Network	
		ssioning 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 Work together with Smart NVR to perform refine					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P; Auto Register
Smart Search		intelligent search, event extraction and merging to event videos				Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI	
Video		Cyclit vidCo3				User/Host	6 (Total bandwidth: 24 M)	
video		H.265; H.264; H.264H; H.264B; MJPEG (Only supported				Storage	FTP; Micro SD card (support max. 256 GB)	

Browser	IE; Chrome; Firefox	
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care	
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		

	CE-LVD: EN62368-1;
Certifications	CE-EMC: Electromagnetic Compatibility Directive
	2014/30/EU

Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 2.3 W (12 VDC); 2.9 W (PoE); Max.: 4.7 W (12 VDC); 5.2 W (PoE) (H.265 + intelligence on + WDR+ IR 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 + Plastic		
Product Dimensions	180.4 mm × 70 mm × 70 mm (7.10" × 2.76" × 2.76") (L × W × H)		
Net Weight	0.31 kg (0.68 lb)		
Gross Weight	0.42 kg (0.93 lb)		

Ordering Information				
Туре	Model	Description		
IP CAMERA	DH-IPC-HFW1439TC1-SA-IL	4MP Entry Smart Dual Light Fixed-focal Bullet Network Camera		
	DH-PFA130-E	Water-proof Junction Box		
	G3416GW	G3/4" Water Joint		
	DH-PFA151	Corner Mount Bracket		
	DH-PFA152-E	Pole Mount Bracket		
Accessories (Optional)	DH-PFA134	Junction Box		
Accessories (Optional)	DH-PFM321-EN	DC12V1A power adapter		
	DH-PFM321D-EN	DC12V 1A power adapter		
	DH-PFM320D-EN	DC12V2A power adapter		
	PFM900-E	Integrated Mount Tester		
	DHI-TF-P100/256GB	MicroSD Card		

Accessories

Optional:







DH-PFA130-E Water-proof Junction Box

G3416GW G3/4" Water Joint

DH-PFA151 Corner Mount Bracket







DH-PFA152-E Pole Mount Bracket

DH-PFA134 Junction Box

DH-PFM321-EN DC12V1A power adapter







DH-PFM321D-EN

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

PFM900-E Integrated Mount Tester



DHI-TF-P100/256GB MicroSD Card

