

# DH-IPC-HFW3431TC1-BG

# 4MP Entry IR 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 Illumination**

Dahua Smart Illumination technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts Illuminations intensity automatically to display the details of the moving target.

#### **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.

- \* The parameters and datasheets below can only be applied to 1431-S6 series.
- 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 IR LED, and the max. illumination distance is 40 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, network disconnection, IP conflict, illegal access.
- 12 VDC/PoE power supply, easy for installation.
- · IP67 protection.
- · Supports human detection.











#### 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	Specificatio	n				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)				Naco Name nate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
ROM		16 MB				Streaming Capability	2 streams
RAM		64 MB				Streaming capability	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 ×
Scanning Syst	tem	Progressive				Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 ×
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					5/6//04 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Min. Illumination		0.03 lux@F2.0 (Color, 30 IRE) 0.003 lux@F2.0 (B/W, 30 IRE)				Bit Rate Control	CBR/VBR
S/N Ratio		0 lux (Illuminator on) > 56 dB				Video Bit Rate	H.264: 32 kbps-4096 kbps H.265: 12 kbps-4096 kbps
Illumination [	Distance	Upto40m(131.24ft)(IR)				Day/Night	Auto(ICR)/Color/B/W
	n/Off Control	Auto;Manual				BLC	Yes
Illuminator N		1 (IR LED)				HLC	Yes
mammator iv	umber	Pan: 0°–360°;				WDR	120 dB
Angle Adjustment		Fan: 0 -360; Tilt: 0°-90°; Rotation: 0°-360°				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens						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. Apertur	re	F2.0				Smart Illumination	Yes
Field of View		2.8 mm: H: 92°; V: 50°; D: 107° 3.6 mm: H: 78°; V: 43°; D: 92°				Image Rotation	0°/180°
Iris Control		Fixed				Mirror	Yes
Close Focus D	Distance	2.8 mm: 1.0 m (3.28 ft)				Privacy Masking	4 areas
Close Focus E	Distance	3.6 mm: 1.3 n	n (4.27 ft)			Alarm	
	Lens	Detect 66.0 m	Observe 26.4 m	Recognize	Identify 6.6 m	Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; security exception;
	2.8 mm	( 216.54 ft)	( 86.61 ft)	( 43.31 ft)	( 21.65 ft)	NI a to consult	SMD (human)
	3.6 mm	76.0 m ( 249.34 ft)	30.4 m ( 99.74 ft)	15.2 m ( 49.87 ft)	7.6 m ( 24.93 ft)	Network	D. 45 (40 400 D. T.)
DORI Distance	*DORI (Detec	,			, ,	Network Port	RJ-45 (10/100 Base-T)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the					SDK and API	Yes
	The numbers	nguish persons in this table do r intelligent fur	o not reflect in	ntelligent fun	ction	Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
and commiss		ioning manual/project design tool.				Interoperability	ONVIF (Profile S & Profile T); CGI
Intelligence				User/Host	6 (Total bandwidth: 24 M)		
Human Detection		Support the classification and accurate detection of human				Storage	FTP
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Browser	IE; Chrome; Firefox
						Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
Video		C.C VIGCOS				Mobile Client	iOS;Android
Video Compression		H.265; H.264; by the sub str	H.264H; H.264 eam)	4B; MJPEG (Or	lly supported	Security	Digest;WSSE;Account lockout;Security logs;Generation and importing of X.509 certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade

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#### 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: 1.5 W (12 VDC), 1.9 W (PoE); Max.: 3.5 W (12 VDC), 4.3 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	0.29 kg (0.63 lb)
Gross Weight	0.40 kg (0.88 lb)

#### **Ordering Information** Model Type Description 4MP Entry IR Fixed-focal DH-IPC-HFW3431TC1-BG IP CAMERA 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 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







PFM900-E Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

## Dimensions (mm[inch])

mm [inch]



