

# DH-IPC-HFW1431TC-A

### 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.

### **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.

- \* 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 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, network disconnection, IP conflict, illegal access.
- · Built in Mic.
- 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)				video i i dine 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				Stream Capability	2 streams	
RAM		64 MB	64 MB				эпеат Саравту	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 ×
Scanning System		Progressive				Resolution	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						
Min. Illumina	tion	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					Day/Night	Auto(ICR)/Color/B/W	
Illuminator O		Up to 30 m (98.43 ft) (IR)  Auto;Manual				BLC	Yes	
Illuminator N		1 (IR LED)					HLC	Yes
mummator N	umbei	Pan: 0°-360°;					WDR	120 dB
Angle Adjustn	nent	Tilt: 0°–90°; Rotation: 0°–3					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. Aperture		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	)istance	2.8 mm: 1.0 m (3.28 ft)				Privacy Masking	4 areas	
close rocas a	ristariee	3.6 mm: 1.3 n	n (4.27 ft)				Audio	
	Lens	Detect	Observe	Recognize	Identify		Built-in MIC	Yes, built-in Mic
	2.8 mm	66.0 m ( 216.54 ft)	26.4 m ( 86.61 ft)	13.2 m ( 43.31 ft)	6.6 m ( 21.65 ft)		Audio Compression	G.711a; G.711Mu; PCM; G.726
	2.6	76.0 m	30.4 m	15.2 m	7.6 m		Alarm	
DORI Distance	,	( 249.34 ft)		• •	•		Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (human); security exception
		576-4) for defining the ability of a person viewing the bistinguish persons or objects within a covered area.					Network	
	The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation		Network Port	RJ-45 (10/100 Base-T)				
		ioning manual,					SDK and API	Yes
Intelligenc		Support the c	lassification an	nd accurate det	ection of		Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
			er with Smart NVR to perform refine			Interoperability	ONVIF (Profile S & Profile T); CGI	
Smart Search		intelligent search, event extraction and merging to event videos				User/Host	6 (Total bandwidth: 24 M)	
Video							Storage	FTP
Video Compre	ession	H.265; H.264; H.264H; H.264B; MJPEG (Only supported			Browser	IE; Chrome; Firefox		
Video Compression		by sub stream)			Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care		

## Entry Series | DH-IPC-HFW1431TC-A

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: 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
Product Dimensions	173.3 mm × 70 mm × 70 mm (6.82" × 2.76" × 2.76") (L × W × H)
Net Weight	0.44 kg (0.97 lb)
Gross Weight	0.55 kg (1.21 lb)

## **Ordering Information**

Type	Model	Description
IP CAMERA	DH-IPC-HFW1431TC-A	4MP Entry IR 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
	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-PFA130-E Water-proof Junction Box

DH-PFA151 Corner mount bracket

DH-PFA152-E Pole Mount Bracket









DH-PFA134 Junction box

DH-PFM321-EN DC12V1A power adapter DC12V 1A power adapter

DH-PFM321D-EN







PFM900-E Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)
		n Danie
Arr	2	

### Dimensions (mm[inch])

mm [inch]





