

# 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 mediumsized 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.

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### Technical Specification

Camera						
Image Sensor		1/2.9" CMOS				
Max. Resolution		2560 (H) × 1440 (V)				
ROM		16 MB				
RAM		64 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.03 lux@F2.0 (Color, 30 lRE) 0.003 lux@F2.0 (B/W, 30 lRE) 0 lux (Illuminator on)				
S/N Ratio		>56 dB				
Illumination Distance		Up to 30 m (98.43 ft) (IR)				
Illuminator On/Off Control		Auto;Manual				
Illuminator Number		1 (IR LED)				
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		F2.0				
Field of View		2.8 mm: H: 92°; V: 50°; D: 107° 3.6 mm: H: 78°; V: 43°; D: 92°				
Iris Control		Fixed				
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.3 m (4.27 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	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)	
	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)	
	*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.					
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### 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 sub stream)	

Smart Codec	Smart H.265+; Smart H.264+		
Video Frame Rate	Main stream: 2560 × 1440@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 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.		
Stream Capability	2 streams		
Resolution	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)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps–4096 kbps; H.265: 12 kbps–4096 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
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°/180°		
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	6 (Total bandwidth: 24 M)		
Storage	FTP		
Browser	IE; Chrome; Firefox		
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care		

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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: 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	on + WDR+ IR intensity)			
Environment Operating Temperature	on + WDR+ IR intensity) -40 °C to +60 °C (-40 °F to +140 °F)			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Operating Temperature Operating Humidity	-40 °C to +60 °C (-40 °F to +140 °F) ≤95% (RH), non-condensing			
Operating Temperature Operating Humidity Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F) ≤95% (RH), non-condensing -40 °C to +60 °C (-40 °F to +140 °F)			
Operating Temperature Operating Humidity Storage Temperature Storage Humidity	-40 °C to +60 °C (-40 °F to +140 °F) ≤95% (RH), non-condensing -40 °C to +60 °C (-40 °F to +140 °F) ≤95% (RH), non-condensing			
Operating Temperature Operating Humidity Storage Temperature Storage Humidity Protection	-40 °C to +60 °C (-40 °F to +140 °F) ≤95% (RH), non-condensing -40 °C to +60 °C (-40 °F to +140 °F) ≤95% (RH), non-condensing			
Operating Temperature Operating Humidity Storage Temperature Storage Humidity Protection Structure	-40 °C to +60 °C (-40 °F to +140 °F) ≤95% (RH), non-condensing -40 °C to +60 °C (-40 °F to +140 °F) ≤95% (RH), non-condensing IP67			
Operating Temperature Operating Humidity Storage Temperature Storage Humidity Protection Structure Casing Material	-40 °C to +60 °C (-40 °F to +140 °F) ≤95% (RH), non-condensing -40 °C to +60 °C (-40 °F to +140 °F) ≤95% (RH), non-condensing IP67 Metal 173.3 mm × 70 mm × 70 mm (6.82" × 2.76" × 2.76") (L ×			

### **Ordering Information**

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Туре	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-PFA152-E

Pole Mount Bracket

DH-PFA130-E DH-PFA151 Water-proof Junction Box

Corner mount bracket



DH-PFM321-EN



DH-PFA134

Junction box

DH-PFM320D-EN DC12V2A power adapter



PFM900-E

DH-PFM321D-EN DC12V1A power adapter DC12V 1A power adapter



Integrated Mount Tester



### Dimensions (mm[inch])









