

# DH-IPC-HDW1230V-SA

# 2MP Entry IR Fixed-focal Eyeball 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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 2 MP (1920 ×1080)@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.
- 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.
- 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.













## 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  $1\,\mathrm{m}$  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						Video Frame Rate	Main stream: 1920× 1080@(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	
Camera Image Sensor		1/2.8" CMOS						
Max. Resolution		1920 (H) × 1080 (V)						subjected to the total encoding capacity.
ROM		128 MB					Stream Capability	2 streams
RAM		128 MB					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Scanning System		Progressive						(352 × 288/352 × 240)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	VBR;CBR
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE)					Video Bit Rate	H.264: 32 kbps-4096 kbps; H.265: 12 kbps-4096 kbps
manimuuon		0 lux (Illuminator on)					Day/Night	Auto(ICR)/Color/B/W
S/N Ratio		>56 dB					BLC	Yes
Illumination Distance		Up to 30 m (98.43 ft) (IR)					HLC	Yes
Illuminator On/Off Control		Auto;Manual					WDR	DWDR
Illuminator Number		1 (IR LED)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Angle Adjustment		Pan: 0° to 360° Tilt: 0° to 78°					Gain Control	Auto/Manual
		Rotation: 0° to 360°					Noise Reduction	3D NR
Lens							Motion Detection	OFF/ON (4 areas, rectangular)
Lens Type		Fixed-focal					Region of Interest (RoI)	Yes (4 areas)
Lens Mount		M12					Smart Illumination	Yes
Focal Length		2.8 mm; 3.6 mm					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Max. Aperture		F2.0					Mirror	Yes
Field of View		2.8 mm: H: 98°; V: 53°; D: 118° 3.6 mm: H: 86°; V: 47°; D: 103°					Privacy Masking	4 areas
Iris Control		Fixed					Audio	
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 0.9 m (2.95 ft)					Built-in MIC	Yes, built-in Mic
	Lens	Detect	Observe	Recognize	Identify		Audio Compression	G.711a; G.711Mu; PCM; G.726
	2.8 mm	46.9 m ( 153.87 ft)	18.8 m ( 61.68 ft)	9.4 m ( 30.8 ft)	4.7 m ( 15.42 ft)		Alarm	
DORI Distance	3.6 mm	52.4 m ( 171.92 ft)	21.0 m ( 68.90 ft)	10.5 m ( 34.45 ft)	5.2 m ( 17.06 ft)		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)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video						Network	
	numbers in t	to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances.					Network Port	RJ-45 (10/100 Base-T)
	For intelligent function distances, refer to installation and commissioning manual/project design tool.						SDK and API	Yes
Intelligence							Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast;
Human Detection		Support the classification and accurate detection of human					Interoperability	ICMP; IGMP; P2P; Auto Registration  ONVIF (Profile S & Profile G & Profile T); CGI
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					User/Host	6 (Total bandwidth: 24 M)
							Storage	FTP; Micro SD card (support max. 256 GB)
Video							Browser	IE; Chrome; Firefox
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
Smart Codec		Smart H.265+; Smart H.264+					Mobile Client	iOS;Android
Sillart Couet		SHIGHT H.200T, SHIGHT H.204T						

# Entry Series | DH-IPC-HDW1230V-SA

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	Video encryption;Configuration			
Cyber Security	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); 2.1 W (PoE) Max.: 3.2 W (12 VDC); 4.0 W (PoE) (H.265 + intelligence on + 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	Inner core: Metal + Plastic Cover: Plastic Decoration ring: Plastic Pedestal: Plastic			
Product Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")			
Net Weight	0.32 kg (0.71 lb)			
Gross Weight	0.46 kg (1.01 lb)			

Ordering Information								
Туре	Model	Description						
IP CAMERA	DH-IPC-HDW1230V-SA	2MP Entry IR Fixed-focal Eyeball Network Camera						
	DH-PFB220C	Ceiling Mount Bracket						
	DH-PFA109	Mount Adapter						
	DH-PFA151	Corner Mount Bracket						
	DH-PFB305W	Wall Mount Bracket						
	DH-PFA150	Pole Mount Bracket						
	DH-PFB205W-E	Wall Mount Bracket						
Accessories (Optional)	DH-PFA152-E	Pole Mount Bracket						
	DH-PFA13G	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						
	DHI-TF-P100/256GB	MicroSD Card						

# **Accessories**

## Optional:







DH-PFB220C Ceiling Mount Bracket

DH-PFA109 Mount Adapter

DH-PFA151 Corner Mount Bracket







DH-PFB305W Wall Mount Bracket

DH-PFA150 Pole Mount Bracket

DH-PFB205W-E Wall Mount Bracket







DH-PFA152-E Pole Mount Bracket

DH-PFA13G Junction Box

DH-PFM321-EN DC12V1A power adapter







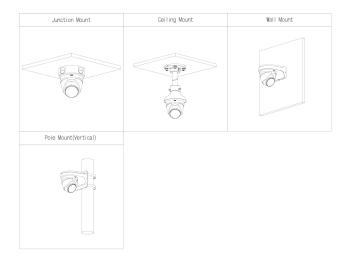
DH-PFM321D-EN DC12V 1A power adapter DC12V2A power adapter

DH-PFM320D-EN

Integrated Mount Tester



DHI-TF-P100/256GB MicroSD Card



# Dimensions (mm[inch])

mm [inch]

