

DH-IPC-HDW1230DT-STW

2 MP IR Fixed-focal WiFi Eyeball Network Camera



Series Overview

Driven by industry-leading technology, Dahua Wi-Fi series network cameras are highly precise and easy to install, producing high-quality images. They have strong Wi-Fi connection capabilities and do not require network cables, eliminating the need for a professional construction team. This series of cost-effective cameras support SD card storage, and are dustproof and waterproof. They are ideal for small and medium-sized scenes such as retail stores, homes, 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.

Two-way Audio

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way audio through the mobile app.

Dual-antenna

High-performance dual antenna and MIMO (multiple-input and multiple output) technology of the network camera make the WiFi transmission distance farther, anti-interference performance better, and video transmission smoother.

Motion Detection

When moving objects appear in the monitoring image, Dahua Motion Detection technology triggers alarm or records.

Day/Night

Dahua Day/Night function provides color image when illumination is adequate; when illuminance is inadequate, it switches night mode and provides white and black image. It can guarantee that the network camera can work normally when illuminance changes.

- 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.
- SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- DWDR, 3D NR, BLC, digital watermarking, applicable to various monitoring scenes.
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access.
- Built-in dual-antenna 2.4G Wi-Fi that covers a range of up to 120 m in an open area.
- · Supports max.256 G Micro SD card.Built-in MIC and speaker.
- 12 VDC power supply.
- IP67 protection.



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.

Technical Specification

Camera	
Image Sensor	1/2.8" CMOS
Max. Resolution	1920 (H) × 1080 (V)
ROM	16 MB
RAM	64 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.025 lux@F2.0 (Color, 30 IRE) 0.0025 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	30 m (98.43 ft)
Illuminator On/Off Control	Auto; Manual
Illuminator Number	1 (IR LED)

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Pan/Tilt/Rota	Pan: 0°–360° Pan/Tilt/Rotation Range Tilt: 0°–78° Rotation: 0°–360°				
Lens		notation o			
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Apertu	re	F2.0			
Field of View	,	2.8 mm: Horizontal: 100°; Vertical: 53°; Diagonal: 120° 3.6 mm: Horizontal: 86°; Vertical: 43°; Diagonal: 102°			
Iris Control		Fixed			
Close Focus I	Distance	2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.0 m (3.28 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	46.9 m (153.87 ft)	18.8 m (61.68 ft)	9.4 m (30.84 ft)	4.7 m (15.42 ft)
Distance	3.6 mm	58.8 m (192.91 ft)	23.5 m (77.10 ft)	11.8 m (38.71 ft)	5.9 m (19.37 ft)
Video		, ,	, , ,	, , , , , , , , , , , , , , , , , , ,	. ,
Video Compi	ression	H.264B; H.264; H.264H; H.265			
Smart Codec	:	Smart H.265+; Smart H.264+			
Video Frame Rate		Main stream: 1920 × 1080 (1–25/30 fps) Sub stream: 640 × 480@(1–25 fps) 640 × 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		1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 720)		20p (1280 ×	
Bit Rate Cont	trol	CBR/VBR			
Video Bit Rate		H264: 24 kbps–4096 kbps H265: 9 kbps–4096 kbps			
Day/Night		Auto (ICR)/Color/B/W			
BLC		Yes			
WDR		DWDR			
White Baland	ce	Auto; natural custom	; street lamp; o	utdoor; manua	al; regional
Gain Control		Auto			
Noise Reduct	tion	3D NR			
Motion Dete	ction	OFF/ON (4 ar	eas, rectangula	r)	
Smart Illumir	Illumination Yes				
Image Rotati	e Rotation 0°/180°				
Mirror Yes					
Audio					
Built-in MIC		Yes			

Built-in Speaker	Yes		
Audio Compression	G.711a; G.711Mu		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; intensity change; SMD (human)		
Network			
Network Port	RJ-45 (10/100 Base-T)		
Wi-Fi	IEEE802.11b/g/n 2.4–2.4835 GHz; 2.4 G		
Wireless Range	Up to 120m(The performance varies based on actual environment)		
SDK and API	Yes		
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		
Network Protocol	IPv4; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; DHCP; DNS; NTP; Multicast; RTMP		
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P		
User/Host	6 (Total bandwidth: 36 M)		
Storage	Micro SD card (support max. 256 GB)		
Browser	IE Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		
Mobile Client	iOS; Android		
Certification			
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; CE-RED: Radio Equipment Directive 2014/53/EU; FCC: 47 CFR FCC Part 15, Subpart B; FCC ID: FCC PART 15C		
Power			
Power Supply	12 VDC		
Power Consumption	Basic: 1.9 W (12 VDC) Max. (H.265+IR intensity): 6.1 W (12 VDC)		
Environment			
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)		
Operating Humidity	≤ 95%		
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)		
Protection	IP67		
Structure			
Casing	Inner core: Metal + Plastic Cover: Plastic		
Product Dimensions	Ø109.9 mm × 102.2 mm (Ø4.33" × 4.02")		
Net Weight	352 g (0.77 lb)		
Gross Weight	530 g (1.17 lb)		

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Ordering Information					
Туре	Model	Description			
2MP Camera	DH-IPC-HDW1230DTP-STW- 0280B	2 MP IR Fixed-focal WiFi Eyeball Network Camera, PAL, 2.8 mm			
	DH-IPC-HDW1230DTN-STW- 0280B	2 MP IR Fixed-focal WiFi Eyeball Network Camera, NTSC, 2.8 mm			
	DH-IPC-HDW1230DTP-STW- 0360B	2 MP IR Fixed-focal WiFi Eyeball Network Camera, PAL, 3.6 mm			
	DH-IPC-HDW1230DTN-STW- 0360B	2 MP IR Fixed-focal WiFi Eyeball Network Camera, NTSC, 3.6 mm			
	ADS-12AM-12 12012EPG	12V DC/1A Power Adapter			
	PFA13G	Junction Box			
	PFB205W	Wall Mount			
Accessories	PFA152-E	Pole Mount			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			
	PFA109+PFB220C	Ceiling Mount			



Dimensions (mm[inch])

Accessories

Included:



ADS-12AM-12 12012EPG 12 V DC/1A Power Adapter

Optional:



PFA13G Junction Box



PFM900-E Integrated Mount Tester



PFB205W Wall Mount



TF-P100 MicroSD Memory Card



PFA152-E Pole Mount



PFA109+PFB220C Ceiling Mount

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