

# DH-IPC-HDW2230T-AS-S2

2MP Lite IR Fixed-focal Eyeball Network Camera



#### **Series Overview**

With upgraded H.265 encoding technology, Dahua Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67.

#### **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.

### Starlight

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

#### IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

#### **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.

- 2MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2MP (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.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- · Intelligent monitoring: Intrusion, tripwire.
- Abnormality detection: Motion detection, privacy masking, audio abnormity, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Max. 256 G micro SD card; built-in MIC.
- 12V DC/PoE power supply.
- IP67 protection.











#### 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 works normal 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.

	Technical Specification			Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Camera				Resolution	(352 × 288/352 × 240)
Image Sensor 1	1/2.8" CMOS			Bit Rate Control	CBR/VBR
Max. Resolution 1	1920 (H) × 1080 (V)			Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
ROM 1	128 MB			Day/Night	Auto (ICR)/Color/B/W
RAM 1	128 MB			BLC	Yes
Scanning System	Progressive			HLC	Yes
Electronic Shutter Speed A	Auto/Manual 1/3 s–1/100,000 s			WDR	DWDR
Min. Illumination	0.005 Lux@F1.6 (Color, : 0.0005 Lux@F1.6 (B/W, 0 Lux (Illuminator on)			White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
				Gain Control	Auto; manual
Illumination Distance 3	30 m (98.43 ft) (IR)			Noise Reduction	3D NR
Illuminator On/Off Control A	Auto; manual			Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator Number 2	2 (IR LED)			Region of Interest (RoI)	Yes (4 areas)
	Pan: 0°–360°			Smart Illumination	Yes
F	Tilt: 0°–78° Rotation: 0°–360°			Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)
Lens	Fixed-focal			Mirror	Yes
A	Fixed-focal			Privacy Masking	4 areas
	M12			Audio	
-	2.8 mm; 3.6 mm			Built-in MIC	Yes
Max Aperture	2.8 mm: F1.6 3.6 mm: F1.6			Audio Compression	G.711a; G.711Mu; G.726; PCM
	2.8 mm: Horizontal: 107°; Vertical: 56°; Diagonal: 127° 3.6 mm: Horizontal: 88°; Vertical: 44°; Diagonal: 105°			Alarm	
2	Fixed 2.8 mm: 0.7 m (2.30 ft)			Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio
Close Focus Distance	3.6 mm: 1.3 m (4.27 ft)			Natural	abnormality; voltage detection; security exception
Lens	Detect Observ		Identify	Network	DL 45 (40 (400 D. T.)
DORI Distance 2.8 mm	43.9 m 17.5 m (144.03 ft) (57.41 ft)		4.4 m (14.44 ft)	Network Port	RJ-45 (10/100 Base-T)
3.6 mm	58.9 m 23.6 m (193.24 ft) (77.43 ft)		5.9 m (19.36 ft)	SDK and API	Yes  Video encryption; firmware encryption; configuration
Smart Event	(193.2411) (77.431	(30.7111)	(19.50 11)	Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
IVS Tripwire; intrusion					certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Video				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QOS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPOE; Boujour
Video Compression  H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)		ted by the	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone	
Smart Codec Smart H.265+; Smart H.264+				User/Host	20 (Total bandwidth: 48 M)
Main stream: 1920 × 1080@1–25/30 fps			Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Video Frame Rate	Sub stream: 704 × 576@1–25 fps 704 × 480@1–30 fps Third stream: CIF@1fps.			Browser	IE Chrome Firefox
s	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.			Management Software	Smart PSS; DSS; DMSS
	to the total encoding capacity.  3 streams			Mobile Client	IOS; Android

#### Certification

Certifications	CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
	FCC: 47 CFR FCC Part 15, Subpart B

#### Power

Power Supply	12 V DC/PoE (802.3af)		
Power Consumption	Basic: 1.8 W (12 V DC); 2.6 W (POE) Max. (ICR + H.265 + max. resolution + main stream + IR intensity + DWDR + IVS): 5.5 W (12 V DC); 6.4 W (POE)		

#### Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤ 95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Protection	IP67		

#### Structure

Casing	Inner core: Metal Cover: Plastic	
Product Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")	
Net Weight	0.39 kg (0.86 lb)	
Gross Weight	0.56 kg (1.23 lb)	

#### **Ordering Information** Model Description Type DH-IPC-2MP Lite IR Fixed-focal Eyeball Network 2MP Camera HDW2230T-AS-S2 Camera PFA13G Junction Box PFB205W Wall Mount Bracket Accessories PFA152-E Pole Mount Bracket (optional) PFM321D 12V DC 1A Power Adapter PFM900-E Integrated Mount Tester

## Accessories

## **Optional:**



PFA13G Junction Box



PFB205W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFM321D 12V DC 1A Power Adapter



PFM900-E Integrated Mount Tester

Junction Mount	Wall Mount	Pole Mount(Vertical)

## Dimensions (mm[inch])

