

DH-IPC-HDBW2230E-S-S2

2MP Lite IR Fixed-focal Dome 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 and IK10 (Supported by some select models).

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, ap plicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire.
- Abnormality detection: Motion detection, privacy masking, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Max. 256 G micro SD card.
- 12V DC/PoE power supply.
- IP67, IK10 protection.











Protection (IP67, IK10, Wide Voltage)

outdoor environment with instable 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to

Technical Sp	pecificati	on					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Camera							Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/2.8" CMOS					Bit Rate Control	CBR/VBR
Max. Resolution		1920 (H) × 1080 (V)					Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
ROM		128 MB					Day/Night	Auto (ICR)/Color/B/W
RAM		128 MB					BLC	Yes
Scanning System		Progressive					HLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					WDR	DWDR
Min. Illumination		0.005 Lux@F1.6 (Color, 30 IRE) 0.0005 Lux@F1.6 (B/W, 30 IRE) 0 Lux (Illuminator on)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
S/N Ratio	S/N Ratio		> 56 dB				Gain Control	Auto; manual
Illumination Distance		30 m (98.43 ft) (IR)					Noise Reduction	3D NR
Illuminator On/0	Off Control	Auto; manual					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator Num	Illuminator Number		3 (IR LED)				Region of Interest (RoI)	Yes (4 areas)
- //-		Pan: 0°-355°					Smart Illumination	Yes
Pan/Tilt/Rotation Range		Tilt: 0°–65° Rotation: 0°–355°					Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ with $1080p$ resolution and lower)
Lens		5 16 1					Mirror	Yes
Lens Type		Fixed-focal					Privacy Masking	4 areas
Lens Mount		M12					Alarm	
Focal Length Max. Aperture		2.8 mm; 3.6 mm 2.8 mm: F1.6 3.6 mm: F1.6					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; voltage detection; security exception
Field of View		2.8 mm: Horizontal: 108°; Vertical: 56°; Diagonal: 128° 3.6 mm: Horizontal: 88°; Vertical: 44°; Diagonal: 105°					Network	actedian, security andeption
Iris Control		Fixed					Network Port	RJ-45 (10/100 Base-T)
Close Focus Distance		2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.3 m (4.27 ft)					SDK and API	Yes
DORI Distance	Lens 2.8 mm	Detect 38.6 m (126.64 ft)	Observe 15.4 m (50.52 ft)	7.7 m (25.26 ft)	Identify 3.9 m (12.80 ft)		Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
DOM DISTANCE	3.6 mm	58.9 m	23.6 m	11.8 m	5.9 m			IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;
6 15 1		(193.24 ft)	(77.43 ft)	(38.71 ft)	(19.36 ft)		Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour
Smart Event							Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone
IVS		Tripwire; intrusion					User/Host	20 (Total bandwidth: 48 M)
Video							Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Video Compression		H.265; H.264B; MJPEG (Only supported by the sub stream)					Browser	IE Chrome
Smart Codec		Smart H.265+; Smart H.264+						Firefox
Video Frame Rate		Main stream: 1920 × 1080@1–25/30 fps Sub stream: 704 × 576@1–25 fps 704 × 480@1–30 fps Third stream: CIF@1fps. *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 Mobile Client	Smart PSS; DSS; DMSS IOS; Android
								ios, i maroid
							Certification Certifications	CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Stream Capability		3 streams						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); 2.5 W (POE) Max. (ICR + H.265 + max. resolution + main stream + IR intensity + DWDR + IVS): 4.6 W (12 V DC); 5.4 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; IK10

Structure

Casing	Metal
Product Dimensions	81 mm × Φ109.9 mm (3.2"×Φ4.3")
Net Weight	0.35 kg (0.8 lb)
Gross Weight	0.49 kg (1.1 lb)

Ordering Information Model Type Description DH-IPC-2MP Lite IR Fixed-focal Dome Network 2MP Camera HDBW2230E-S-S2 Camera PFA136 Junction Box PFB203W Wall Mount Bracket PFA152-E Pole Mount Bracket Accessories PFA106 Mount Adapter (optional) PFB220C Ceiling Mount Bracket PFM321D 12V DC 1A Power Adapter PFM900-E Integrated Mount Tester

Accessories

Optional:



PFA136 Junction Box





PFA106 Mount Adapter



PFB203W Wall Mount Bracket



PFB220C Ceiling Mount Bracket



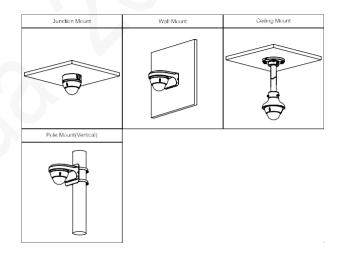
Pole Mount Bracket



PFM321D 12V DC 1A Power Adapter



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

