

DH-IPC-HDBW2231E-S-S2

2MP Lite IR Fixed-focal Dome Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs 2MP (1920 × 1080) @ 25/30 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, max IR distance: 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card
- 12V DC/PoE power supply
- IP67, IK10 protection













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.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

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 camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, Dahua network camera better meets the demands of cyber security and privacy protection.

Protection (IP67, IK10, 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 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 m (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.





Technical Specification							Bit Rate Control CBR/VBR		
Camera						Video Bit Rate H.264: 32 Kbps–6144 Kbps H.265: 12 Kbps–6144 Kbps			
Image Sensor		1/2.8" 2Megapixel progressive CMOS					Day/Night	Auto(ICR)/Color/B/W	
Max. Resolution		1920 (H) ×1080 (V)				BLC	Yes		
ROM		128 MB					HLC	Yes	
RAM		128 MB					WDR	120 dB	
Scanning System		Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Gain Control	custom Auto/Manual	
Min. Illumination		0.002 Lux @F1.6					Noise Reduction	3D NR	
S/N Ratio		> 56 dB					Motion Detection	OFF/ON (4 areas, rectangular)	
Illumination Distance		30 m (98.4 ft)					Region of Interest(RoI)	Yes (4 areas)	
Illuminator On/Off Control		Auto/Manual					Smart Illumination	Yes	
Illuminator Num	nber	3 (IR LED)						0°/90°/180°/270° (Support 90°/270° with 1080p	
Pan/Tilt/Rotatio	on Range	Pan: 0°–355° Tilt: 0°–65°					Image Rotation	resolution and lower.)	
. , .,	. 0-	Rotation: 0°–355°					Mirror	Yes	
Lens							Privacy Masking	4 areas	
Lens Type		Fixed-focal					Alarm		
Mount Type Focal Length		M12 2.8 mm 3.6 mm					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; safety exception	
Max. Aperture		F1.6					Network		
		2.8 mm:					Network	RJ-45 (10/100 Base-T)	
Field of View		Horizontal 106° × Vertical 56° × Diagonal 126° 3.6 mm: Horizontal 87° × Vertical 46° × Diagonal 104°					SDK and API	Yes	
Iris Type		Fixed						Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;	
Close Focus Dist	ance	2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft)					Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
	Lens	Detect	Observe	Recognize	Identify			IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;	
DORI Distance	2.8 mm	38.6 m (126.6 ft) 55.2 m	15.4 m (50.5 ft) 22.1 m	7.7 m (25.3 ft) 11.0 m	3.9 m (12.8 ft) 5.5 m		Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour	
Smart Event	3.6 mm	(181.1 ft)	(72.5 ft)	(36.1 ft)	(18.0 ft)		Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
IVS		Tripwire; intrusion					User/Host	20	
Video		. ,					Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP	
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					Browser	IE Chrome Firefox	
Smart Codec		Smart H.265+/ Smart H.264+					Management Software	Smart PSS; DSS; DMSS	
		Main stream: 1920 × 1080 (1 fps-25/30 fps)					Mobile Phone	IOS; Android	
Video Frame Rate		Sub stream: 704 × 576 (1 fps-25fps) 704 × 480 (1 fps-30fps)					Certification		
Stream Capability		2 streams						CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive	
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	



Power

Power Supply	12V DC/PoE (802.3af)		
Power Consumption	< 5.4W		

Environment

Operating Conditions	-40°C to $+60$ °C (-40 °F to $+140$ °F)/less than ≤ 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection	IP67, IK10		

Structure

Type

Ordering Information

Part Number

Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")
Net Weight	0.35 kg (0.77lb)
Gross Weight	0.48 kg (1.06lb)

Description

TLC SD Card



PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



PFA106 Mount Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount			
PFA106+PFB220C			

2MP Lite IR Fixed-focal Dome DH-IPC-HDBW2231EP-S-S2 Network Camera, PAL 2MP Camera 2MP Lite IR Fixed-focal Dome DH-IPC-HDBW2231EN-S-S2 Network Camera, NTSC PFA136 Junction Box PFA200W Rain Shade PFB203W Wall Mount PFA152-E Pole Mount PFA106 Mount Adapter Accessories PFB220C Celling Mount (optional) PFM321D DC12V1A Power Adapter Single-port Long Reach Ethernet LR1002-1ET/1EC Over Coax Extender PFM900-E Integrated Mount Tester

Accessories

Optional:



PFM114



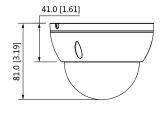


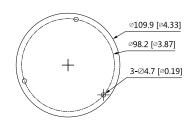
PFA200W Rain Shade



PFB203W Wall Mount

Dimensions (mm[inch])





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