

DH-IPC-HDBW2230E-S-S2

2MP Lite IR Fixed-focal Dome Network Camera



- 2MP, 1/2.7" 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, DWDR, 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.

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			
Image Sensor		1/2.7" 2Megapixel progressive CMOS					Day/Night	H.265: 12 kbps–6144 kbps Auto(ICR)/Color/B/W
Max. Resolution		1920 (H) × 1080 (V)					BLC	Yes
ROM		128 MB	128 MB				HLC	Yes
RAM		128 MB					WDR	DWDR
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		0.005 Lux @ F1.6					Noise Reduction	3D NR
S/N Ratio		>56 dB					Motion Detection	OFF/ON (4 areas, rectangular)
Illumination Distance		30 m (98.43 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° (Supports 90°/270° with 1080p
Pan/Tilt/Rotatio	n Range	Pan: 0°-355° Tilt: 0°-65°					Image Rotation	resolution and lower.)
Pan/Tilt/Rotation Range		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	detection, salety energials.
F: 11 6)		2.8 mm: Horizontal 110.0° × Vertical 59.0° × Diagonal: 132.0°					Network	RJ-45 (10/100 Base-T)
Field of View		3.6 mm: Horizontal 9:	_				SDK and API	Yes
Iris Type		Fixed					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
Close Focus Dist		2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.1 m (3.61 ft)						
	Lens	Detect 37.3 m	Observe 14.9 m	Recognize 7.5 m	Identify 3.7 m			execution; trusted upgrade
DORI Distance	2.8 mm 3.6 mm	(122.38 ft) 53.3 m	(48.88 ft) 21.3 m	(24.61 ft) 10.7 m	(12.14 ft) 5.3 m		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; Bonjour
Smart Event		(174.87 ft) (69.88 ft) (35.10 ft) (17.39 ft)		(17.39 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
Video Frame Rate		Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25fps)					Mobile Phone	IOS; Android
							Certification	
		704 × 480 (1 fps-30fps)						CE-LVD: EN62368-1
Stream Capability Resolution		2 streams 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
	(352 × 288/352 × 240)						,	

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	<5W

Environment

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

Structure

Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.19" × Φ4.33")
Net Weight	0.350 kg (0.77 lb)
Gross Weight	0.481 kg (1.06 lb)

Ordering Information				
Туре	Part Number	Description		
2MP	DH-IPC-HDBW2230EP-S-S2	2MP Lite IR Fixed-focal Dome Network Camera,PAL		
Camera	DH-IPC-HDBW2230EN-S-S2	2MP Lite IR Fixed-focal Dome Network Camera,NTSC		
	PFA136	Junction Box		
	PFA200W	Rain Shade		
	PFB203W	Wall Mount		
	PFA152-E	Pole Mount		
	PFA106	Mount Adapter		
Accessories (optional)	PFB220C	Celling Mount		
	PFM321D	DC12V1A Power Adapter		
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender		
	PFM900-E	Integrated Mount Tester		
	PFM114	TLC SD Card		

Accessories

Optional:





Junction Box





















PFB203W Wall Mount



PFB220C Celling Mount



PFM321D DC12V1A Power Adapter



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



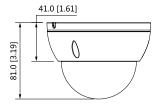
Integrated Mount Tester

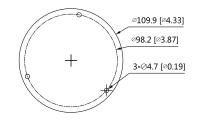


PFM114 TLC SD Card

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

Dimensions (mm[inch])





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