

DH-IPC-HFW1230A-A

2MP General Bullet Network Camera



Series Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry series network camera is applicable to small and medium-sized scenes, such as homes/ residences, small-sized retail stores, and other small and medium-sized enterprises.

Functions

Motion Detection

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

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 work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@25 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 80 m.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.



Smart Illumination

Dahua Smart Illumination technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts Illuminations intensity automatically to display the details of the moving target.

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.

Entry Series | DH-IPC-HFW1230A-A

HLC

Yes

Lens TypeAlarm EventAlarm Eventdetection; audio exception; video tampering; security exceptionLens Mount $M12$	Technical Specification						WDR	Yes
Rank NoneAnima<	Camera						White Balance	
Noise feductionNoise feducti	Image Sensor	1/2.8" CMOS					Gain Control	Auto
AndAddition DetectionOff/On Large Network (Addition)Sensing SystemModel Names 1/4 - 4/100,00 - 1Sensitive and formation (Model Names)Sensitive and formation (Model Names)Bit Individual 2014Sensitive and Sensitive and	Max. Resolution	1920 (H) × 1080 (V)					Noise Reduction	3D NR
Region of Interest (into interest	ROM	16 MB	16 MB				Motion Detection	OFF/ON (4 areas, rectangular)
Electronic Shuther See InterceptionName Unique interceptionName	RAM	64 MB					Region of Interest (RoI)	Yes (4 areas)
Image for ationImage for ationImage for ationImage for ationImage for ationMin. IlluminationSold Ling IFE2 (URL)Sold Ling IFE2 (URL)Sold Ling IFE2 (URL)Sold Ling IFE2 (URL)SYN tatioSold Ling IFE2 (URL)Sold Ling IFE2 (URL)Sold Ling IFE2 (URL)Sold Ling IFE2 (URL)SYN tatioSold Ling IFE2 (URL)Sold Ling IFE2 (URL)Sold Ling IFE2 (URL)Sold Ling IFE2 (URL)SYN tatioSold Ling IFE2 (URL)Sold Ling IFE2 (URL)Sold Ling IFE2 (URL)Sold Ling IFE2 (URL)Item atom atom of the Syn	Scanning System	Progressive					Smart Illumination	Yes
Mn. IlluminationOnly Log 1/2 of 2005 at 71 High Product (Marrian Control 1990) (Marrian	Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s					Image Rotation	
syn data3xn us3xn usAudioilluminator Distance $\sin (252 \times 1)^{-1} \times 1 \times$	Min. Illumination	0.001 lux@F2.0 (B/W, 30 IRE)					-	
number number number numbernumber numbernumber numbernumber numbernumbernumber numbernumbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbernumber numbern	S/N Ratio	>56 dB					Privacy Masking	4 areas
Illuminator On/OH ControlAutric, ManualItiminator On/OH Control $2 (R ED)$ Itiminator Number $2 (R ED)$ Lens $- Read-acal$ Lens Number $Read-acal$ Itiminator Number $R Ed-acal$ Lens Number $R Ed-acal$ Itiminator Number $R Ed-acal$ Lens Number $R Ed-acal$ Itiminator Number $R Ed-acal$ Focal Length $R Ed-acal$ $R Addit CompressionR Ed-acalField of ViewR Ed^{-1}R R Addit CompressionR Ed^{-1}R R Addit CompressionR Ed^{-1}R R CompressionR Ed^{-1}R CompressionR Ed^{-1}$	Illumination Distance	80 m (262.47	80 m (262.47 ft) (IR)				Audio	
number of Value $Z /V E U /V$ $Z /V E U /V /V E U /V /V E U /V $	Illuminator On/Off Control						Built-in MIC	Yes
LensLens TypeNetwork disconnection; Pe onflict; Illegal access; motion detection; audio exception; video tampering; security exception; video tampering; s	Illuminator Number						Audio Compression	G.711a; G.711Mu; G.726
Lens TypeFixed-rocalFixed-rocalAfarm Eventdetection audio ecception; video tampering; security correction; addie to ecception; video tampering; security fishoff, addie to ec	Lens						Alarm	
Lens MountM12NetworkFocal Length $3.6\mathrm{mm}$ $2.0\mathrm{mm}$ NetworkMax Aperture $2.0\mathrm{mm}$ $1.2\mathrm{mm}$ Network PortNetwork PortField of View 8.8^{+} ; V ± 7 ; $\pm 1.04^{+}$ $1.4\mathrm{st}$ Network PortcoolNetwork Portcoolrits Control 8.8^{+} ; $V \pm 7$; $\pm 1.04^{+}$ $1.0\mathrm{st}$ $5.2\mathrm{m}$ Network PortcoolNetwork Portcool 0 or $(2.9, \pm^{-})$ $1.0\mathrm{st}$ $1.0\mathrm{st}$ $5.2\mathrm{m}$ Network PortcoolNetwork Portcool $10,19.2\mathrm{m}$ $20.0\mathrm{m}$ $1.0\mathrm{st}$ $5.2\mathrm{m}$ Network PortcoolNetwork Portcool $10,19.2\mathrm{m}$ $21.0\mathrm{m}$ $1.0\mathrm{st}$ $5.2\mathrm{m}$ Network PortcoolNetwork Portcool $10,19.2\mathrm{m}$ $1.0\mathrm{m}$ $1.0\mathrm{m}$ <td>Lens Type</td> <td colspan="4">Fixed-focal</td> <td></td> <td>Alarm Event</td> <td></td>	Lens Type	Fixed-focal					Alarm Event	
Face length3.6 mmNetwork PortaR-45 (10/100 Base-T)Max. Aperture $E_2.0$ $E_2.0$ $E_2.0$ $E_2.0$ $E_2.0$ Field of View $H=87; \forall: 4.7; \because: 10: 10^{+-}$ $E=1.5$ SDK and APIYesris Control $Field = 1.5$ $Field = 1.5$ $Field = 1.5$ $Field = 1.5$ tris Control $Field = 1.5$ $E=1.5$ $Field = 1.5$ $Field = 1.5$ $Close Focus DistanceOsmer = 1.5ecognizeIdentifyIdentifyOsmer = 1.5Old = 0.521.010.55.2(17.06 fr)User/HostG(Total bandwidth: 36 M)Video Compression\frac{1}{92.5 + 1.264 + 1.264 + 1.254 + 3.5 (MIPEG 1-25/30 \text{ fro})SicamerSicamerField = 1.5Video Frame Rate\frac{1}{900} (1220 \times 1080) (1-25/30 \text{ fro})Sicamer arts 5769 (1-25/30 \text{ fro})Field = 1.5Cyber SecurityConfiguration encryption; trusted execution; Digest; security logg: runated ugrade. WSSE; frusted body: generation and inporting of XSOSVideo Frame Rate\frac{1}{32.5 \times 108.5 (1.220 \times 1080) (1-25/30 \text{ fro})}Field = 1.5Field = 1.5Video Frame Rate\frac{1}{32.5 \times 108.5 (1.220 \times 1080) (1-25/30 \text{ fro})}Field = 1.5Field = 1.5Video Frame Rate\frac{1}{32.5 \times 108.5 (1.220 \times 1080) (1-25/30 \text{ fro})}Field = 1.5Field = 1.5Video Frame Rate\frac{1}{32.5 \times 108.5 \times 108.5 (1.220 \times 1080) (1-25/30 \text{ fro})}Field = 1.5Field = 1.5Video Frame Rate\frac{1}{32.5 \times 108.5 \times 1$	Lens Mount	M12					Network	
Max. ApertureF2.0Field of ViewH: 88°; V: 47°; E: 104°SDK and APIYesInis ControlFixedFixedYesClose Focus Distance0.9 m (2.95 fr.RecognizeIdentifyDORI DistanceDetectObserveRecognizeIdentify $(71.92 fr.)$ 2.0 m (34.45 fr.)10.5 m (34.45 fr.)S.2 m (17.06 fr.)ONVIF (Profile S); CGIVideoDorne; FirefoxG(Total bandwidth: 36 M)G(Total bandwidth: 36 M)DetectVideoStorageFIPFirefoxG(Total bandwidth: 36 M)DetectVideo Compression $h265; H264; H264$	Focal Length	3.6 mm						RI-45 (10/100 Base-T)
Field of ViewH: 88 "y, 47; b: 104"Field of ViewH: 88 "y, 47; b: 104"Iris ControlFixedFixedIteroperabilityNetwork ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTSP; RTCP; SATEClose Focus Distance0.9 m (2.95 ft)DORI DistanceDetectObserveRecognizeIdentifyStateDetectObserveRecognizeIdentifyVideoMetwork ProtocolFTP; DHCP; DNC; DNS; NTP; Multicast; ICMP; IGMPVideo Compression $12.65; H.264; H$	Max. Aperture	F2.0						
Iris ControlFiedField </td <td>Field of View</td> <td colspan="4">H: 88°; V: 47°; D: 104°</td> <td></td> <td></td> <td></td>	Field of View	H: 88°; V: 47°; D: 104°						
DescDetectObserveRecognizeIdentifyDoll DistanceDetectObserveRecognizeIdentify10.5 m10.5 m5.2 mS.2 mVideoS.2 mS.2 mS.2 mVideoDetectS.3 mS.2 mVideo Compression $L_255; L_264; L_2$	Iris Control	Fixed					Network Protocol	
DORI Distance 52.4 m (171.92 ft) 10.5 m (3.4.5 ft) 5.2 m (17.0.6 ft) Video Video H265; H.264; H.264H; H.264H; H.264F; MJPEG (0.1.25/0 ft) Browser E; Chrome; Firefox Smart Codec Smart H.265+; Smart H.264H; H.264H	Close Focus Distance	0.9 m (2.95 ft)					Interoperability	ONVIF (Profile S); CGI
Storage Storage Storage Storage Storage Storage Video Video Video Video Storage Storage Storage Video H265; H264; H26	DORI Distance	Detect		-			User/Host	6 (Total bandwidth: 36 M)
Video H265; H.264; H.264; H.264B; MJPEG (Only supported by the sub stream) Management Software Smart PSS; DSS; DMSS Smart Codec Smart H.265+; Smart H.264+ Mobile Client ioS;Android Video Frame Rate Main stream: 1920 × 1080@(1-25/30 fps) sub stream; 704 × 57@(1-25 fps)/704 × 480@(1-30 fps) stream; for multiple streams, the values will be subjected to the total encoding capacity. Cyber Security (000; trusted upgrade; WSSE; trusted boot; account lockout; generation and importing of X.509 certification; video encryption Stream Capability 2 streams 2 streams (1004 × 57@(704 × 480); 720p (1280 × 960); 7							Storage	FTP
Video Compression Nizody, Nizody	Video						Browser	IE; Chrome; Firefox
Mobile ClientiOS;AndroidSmart L.265+; Smart H.264+Mobile Stream: 1920 × 1080@(1-25/30 fps) Sub stream: 1920 × 1080@(1-25 fps)/704 × 480@(1-30 fps) Sub stream: for multiple streams, the values will be subjected to the total encoding capacity.Configuration encryption; trusted execution; Diges; security logs; trusted upgrade; WSSE; trusted boot; account lockout; generation and importing of X.509 certification; video encryptionStream Capability2 streamsPowerResolution1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 x720); D1 (704 × 576/704 × 480); VGA (640 × 380); ClF (352 × 288/352 × 240)Power Supply12 VDC/PoEBit Rate ControlCBR/VBREnvironment Mobile ClientEnvironmentVideo Bit Rateh.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps Mobile Stream: An und (ICR)/Color/B/WEnvironment operating Temperature-40 °C to +60 °C (-40 °F to +140 °F)Day/NightAuto(ICR)/Color/B/WOperating Humidity95%	Video Compression						Management Software	Smart PSS; DSS; DMSS
Nideo Frame Rate Main stream: 1920 × 1080@(1-25/30 fps) Sub stream: 704 × 576@(1-25 fps)/704 × 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. Cyber Security Configuration encryption; trusted executior; Diges; 	Smart Codec						Mobile Client	iOS;Android
Ite to the total encoding capacity. Power Stream Capability 2 streams Power Supply 12 VDC/PoE Resolution 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 320); CIF (352 × 288/352 × 240) Power Consumption Basic: 1.3 W (12 VDC); 1.9 W (PoE) Bit Rate Control CBR/VBR CBR/VBR Power Consumption Basic: 1.3 W (12 VDC); 1.9 W (PoE) Max. (ICR Switch + H.265 + IR intensity): 5.1 W (12 VDC) Video Bit Rate H.264: 32 kbps-6144 kbps Furironment Power Consumption Auto(CR)/Coor/B/W Power Consumption Basic: 1.3 W (12 VDC); 1.9 W (PoE) Power Consumption Day/Night CBR/VBR Coperating Temperature -40 °C to +60 °C (-40 °F to +140 °F) Power Consumption		Main stream: 1920 × 1080@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)					Cyber Security	security logs; trusted upgrade; WSSE; trusted boot; account lockout; generation and importing of X.509
Resolution Image: Displayed and Displaye							Power	
Resolution x720); D1 (704 × 576/704 × 480); VGA (640 × 380); CIF (352 × 288/352 × 240) Power Consumption Basic. 1:S W (12 VCC), 1:9 W (PCE) Max. (ICR Switch + H.265 + IR intensity): 5.1 W (12 VDC) Bit Rate Control CBR/VBR Power Consumption Basic. 1:S W (12 VDC), 1:9 W (PCE) Max. (ICR Switch + H.265 + IR intensity): 5.1 W (12 VDC) Video Bit Rate H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps Operating Temperature -40 °C to +60 °C (-40 °F to +140 °F) Day/Night Auto(ICR)/Color/B/W Operating Humidity >95%	Stream Capability	2 streams					Power Supply	12 VDC/PoE
Video Bit Rate H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps Operating Temperature -40 °C to +60 °C (-40 °F to +140 °F) Day/Night Auto(ICR)/Color/B/W Operating Humidity ≤95%	Resolution	×720); D1 (704 × 576/704 × 480); VGA (640 × 380); CIF					Power Consumption	Max. (ICR Switch + H.265 + IR intensity): 5.1 W (12 VDC)
Video Bit Rate H.264:32 kbps-6144 kbps H.265:12 kbps-6144 kbps Operating Temperature -40 °C to +60 °C (-40 °F to +140 °F) Day/Night Auto(ICR)/Color/B/W Operating Temperature -40 °C to +60 °C (-40 °F to +140 °F)	Bit Rate Control	CBR/VBR					Environment	
Day/Night Auto(ICR)/Color/B/W Operating Humidity ≤95%	Video Bit Rate							-40 °C to +60 °C (-40 °F to +140 °F)
	Day/Night	Auto(ICR)/Color/B/W						
		Yes						–40 °C to +70 °C (–40 °F to +158 °F)

Storage Humidity

IP67

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Structure

Casing Material	Metal + plastic			
Product Dimensions	194.4 mm × 96.9 mm × 92.8 mm (7.65" × 3.81" × 3.65") (L × W × H)			
Net Weight	0.47 kg (1.03 lb)			
Gross Weight	0.84 kg (1.85 lb)			

Ordering Information

Туре	Model	Description	
2MP Camera	DH-IPC-HFW1230A-A	2MP General Bullet Network Camera	
Accessories (Optional)	PFB110W	Ceiling Mount	
	PFA160	Plane Mount	
	PFM321D	12 VDC 1 A Power Adapter	
	PFM900-E	Integrated Mount Tester	

Accessories

Optional:



PFB110W Ceiling Mount



Plane Mount



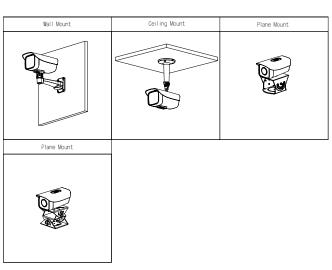
PFM900-E Integrated Mount Tester



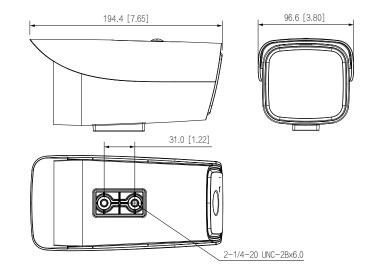
PFM321D

12 VDC 1A Power

Adapter



Dimensions (mm[inch])



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