

DH-IPC-HDBW1239E1-A-IL

2MP Entry Smart Dual Light Fixed-focal Dome 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

Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

Human Detection

Dahua intelligent algorithms extract moving human targets from videos and filters out alarms that are triggered by non-human targets to increase the accuracy and effectiveness of alarms.

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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 2 MP (1920 × 1080)@25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED and warm light, and the max. IR distance is 30 m, the max. warm light distance is 30 m.
- DWDR, 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.
- Abnormality detection: Motion detection, video tampering, audio detection, network disconnection, IP conflict and illegal access.
- · Built in Mic.
- 12 VDC/PoE power supply, easy for installation.
- · IP67 and IK08 protection.
- · Supports human detection.













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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Streaming Equability 2 streaming Equation 2 streaming Equability 2 streaming Equation 2 streaming Equability	Technical Specification							Smart Codec	Smart H.265+; Smart H.264+
Mary	Camera								- , , , ,
Max. Resolution			1/2.8" CMOS					Video Frame Rate	
100 100	Max. Resolution		1920 (H) × 1080 (V)				video Frame Nate		
Max	ROM		128 MB						subjected to the total encoding capacity.
Securing System	RAM		128 MB					Streaming Capability	2 streams
	Scanning System		Progressive					Resolution	720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Min.	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						,
Syn Ratio 10 10 10 10 10 10 10 1	Min. Illumination		0.0005 lux@F1.6 (B/W, 30 IRE)						H.264: 32 kbps-4096 kbps;
Buc	S/N Ratio		>56 dB					Day/Night	
Illuminator On/Off Control Auto-Manual HLC Yes More	Illianda Africa Bira		Up to 30 m (98.43 ft) (IR)						
Illuminator Number Auto-Manual MURR DivOR	mummation distance		Up to 30 m (98.43 ft) (Warm light)						
Millionimator Number Signt E(b); 4 (Wexm light)	Illuminator On/Off Control		Auto;Manual						
Angle Adjustment Rite of Less Rotation: 07-355* Rotation: 07	Illuminator Number		3 (IR LED); 4 (Warm light)						
Lens Type Fixed-focal Motion Detection 3B NR Lens Type Fixed-focal Motion Detection OFF/ON (4 areas, rectangular) Lens Mount M12 Region of Interest (Rol) Yes (4 areas) Focal Length 2.8 mm; 3.6 mm Smart Illumination Yes Smart Illumination Yes Smart Illumination Yes Field of View 2.8 mm; H: 104.5°, V: 58°, D: 122° Image Rotation O'/90°/130°/120° (Support 90°/270° with 1080p Field of View 2.8 mm; H: 86.6°, V: 46.2°, D. 103.4° Image Rotation O'/90°/130°/120° (Support 90°/270° with 1080p Field of View 2.8 mm; D.7 m (2.30 ft) 3.6 mm; Li m (3.51 ft) Smart Illumination Yes Mirror Yes Privacy Masking 4 areas Audio Audio	Angle Adjustment		Tilt: 0°–65°						
Lens Type Lens Mount M12 Region of Interest (Rol) Region of Intere			NOTATION: U =353						
Lens Mount M12 Region of Interest (Rot) Ves (4 areas) Focal Length 2.8 mm; 3.6 mm Smart Illumination Ves Max. Aperture F1.6 Smart Illumination Ves Max. Aperture F1.6 Smart Dual Light Ves Field of View 2.8 mm; H: 104.5"; V: 58"; D: 122" 3.6 mm; H: 86.6"; V: 46.2"; D: 103.4" Image Rotation O'909/180°/270" (Support 90°/270" with 1080p resolution and lower) Iris Control Fixed Mirror Ves Close Focus Distance 2.8 mm; 0.7 m (2.30 ft) 3.6 mm; 1.1 m (3.61 ft) Privacy Masking 4 areas Audio Built-in MIC Ves, built-in Mic Audio Built-in MIC Ves, built-in Mic Audio Compression G.711a; G.711Mu; PCM; G.726 Alarm DORI Distance 100 (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this blade on or felted intelligent function distances, refer to installation and commissioning manual/project design tool. Intelligence Human Detection Support the classification and accurate detection of human Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video User/Host H.265; H.264H; H.264B; MIPEG (Only supported Browser Brows									
Focal Length 2.8 mm; 3.6 mm Max. Aperture F1.6 Smart Illumination Yes Smart Dual Light Yes Smart Dual Light Yes Smart Dual Light Yes Image Rotation Presolution and lower) Privacy Masking 4 areas Audio Lens Detect Observe Recognize Identify (55.77ft) (27.89 ft) (13.78 ft) (17.72 ft) Distance 3.6 mm (176.51 ft) (70.54 ft) (35.43 ft) (17.72 ft) Distance **DORI (Detect, Observe, Recognize, Identify) is a standard system (N-6266-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances, For intelligent function distances, refer to installation and commissioning manual/project design tool. Intelligence More Toda (17.65.17 ft) (17.64 ft) (17.65 ft) (17.72 ft)	Lens Type		Fixed-focal					Motion Detection	OFF/ON (4 areas, rectangular)
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Field of View 2.8 mm: H: 104.5°; V: 58°; D: 122° 3.6 mm: H: 86.6°; V: 46.2°; D: 103.4° Iris Control Fixed Mirror Yes Close Focus Distance 2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.1 m (3.61 ft) Lens Detect Observe Recognize Identify 2.8 mm (139.44 ft) (55.77 ft) (27.89 ft) (13.78 ft) DORI DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-6267-64) for defining the ability of a person viewing the video to distances. For intelligent function distances, refer to installation and commissioning manual/project design tool. Intelligence Human Detection Support the classification and accurate detection of human Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event video or	Focal Length		2.8 mm; 3.6 mm					Smart Illumination	Yes
Iris Control Fixed Alarm Alarm Dori (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances, refer to installation and commissioning manual/project design tool. Intelligence Human Detection Smart Search Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event video to Video Omnression Fixed Mirror Mir	Max. Aperture		F1.6					Smart Dual Light	Yes
Close Focus Distance 2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.1 m (3.61 ft) Lens Detect 0bserve Recognize 1dentify 2.8 mm 42.5 m (139.44 ft) (55.77 ft) (27.89 ft) (13.78 ft) 3.6 mm 53.8 m (176.51 ft) (70.54 ft	Field of View							Image Rotation	
Lens Detect Observe Recognize Identify 2.8 mm 42.5 m 17.0 m 8.5 m 4.2 m (139.44 ft) (55.77 ft) (27.89 ft) (13.78 ft) 3.6 mm 53.8 m 21.5 m 10.8 m (176.51 ft) (70.54 ft) (35.43 ft) (17.72 ft) Distance *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool. Intelligence Human Detection Support the classification and accurate detection of human Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Compression H.265; H.264; H.264H; H.264B; MJPEG (Only supported) Audio Built-in MIC Audio Audio Audio Audio Audio Audio Compression (5.711a; G.711Mu; PCM; G.726 Alarm Alarm Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (human); security exception; Network Network Port RJ-45 (10/100 Base-T) SDK and API Yes SDK and API Yes Interoperability ONVIF (Profile S & Profile T); CGI User/Host 6 (Total bandwidth: 24 M) Video Compression H.265; H.264; H.264H; H.264B; MJPEG (Only supported) FIP Video Compression H.265; H.264; H.264H; H.264B; MJPEG (Only supported) Page 1.2 m (1.2 m (Iris Control		Fixed					Mirror	Yes
Lens Detect Observe Recognize Identify 2.8 mm 42.5 m (139.44 ft) (55.77 ft) (27.89 ft) (13.78 ft) 3.6 mm 53.8 m (176.51 ft) (70.54 ft) (35.43 ft) (17.72 ft) Distance PDORI (EVECT, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function and commissioning manual/project design tool. Intelligence Human Detection Support the classification and accurate detection of human Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265; H.264; H.264H; H.264B; MJPEG (Only supported) Built-in MIC Yes, built-in Mic Audio Compression G.711a; G.711Mu; PCM; G.726 Alarm Alarm Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (human); security exception; Network Network Network Network Port R.1-45 (10/100 Base-T) SDK and API Yes Interoperability Yes Interoperability ONVIF (Profile S & Profile T); CGI User/Host 6 (Total bandwidth: 24 M) Video Compression H.265; H.264; H.264H; H.264B; MJPEG (Only supported) Built-in MIC Audio Compression (G.711a; G.711Mu; PCM; G.726 Alarm Alarm Network disconnection; IP conflict; illegal access; motion detection; SMD (human); security exception; Network Network Network Network Network Protocol RI-45 (10/100 Base-T) Network Port RI-45 (10/100 Base-T) Network Protocol RI-45 (10/100 Base-T) Network Port RI-45 (10/100 Base-T) Network Port RI-45 (10/100 Base-T) Network Port RI-45 (10/100 Base-T) N	Close Focus Distance							Privacy Masking	4 areas
Built-in MIC Yes, built-in Mic Audio Compression G.711a; G.711Mu; PCM; G.726 Alarm Network disconnection; IP conflict; illegal access; motion detection; vide ot ampering; audio detection; SMD (human); security exception; vide ot ampering; audio detection; SMD (human); security exception; vide ot ampering; audio detection; SMD (human); security exception; with a part of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances, refer to installation and commissioning manual/project design tool. Network Network Port SDK and API Yes Interoperability Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Yideo Compression H.265; H.264; H.264H; H.264B; MJPEG (Only supported) Browser FIP Wideo Compression Retwork Port SDK and API Yes Interoperability ONVIF (Profile S & Profile T); CGI User/Host G (Total bandwidth: 24 M)		Lens	Detect	Observe	Recognize	Identify		Audio	
Audio Compression G.711a; G.711Mu; PCM; G.726 3.6 mm (176.51 ft) (55.77 ft) (27.89 ft) (13.78 ft) Audio Compression G.711a; G.711Mu; PCM; G.726 Alarm Alarm Alarm Alarm Event Store Metwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (human); security exception; SMD (hum		2.8 mm			8.5 m	4.2 m		Built-in MIC	Yes, built-in Mic
DORI DISTANCE *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function and commissioning manual/project design tool. Intelligence Human Detection Smart Search Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos H.265; H.264; H.264H; H.264B; MJPEG (Only supported) Wideo Compression Alarm Event Network Alarm Event Network Alarm Event Network Network Network Network Network Network Network Network Network Port RI-45 (10/100 Base-T) SDK and API Yes Network Protocol RTMP; SMTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; DNS; DNS; DNS; DNS; DNS; DN								Audio Compression	G.711a; G.711Mu; PCM; G.726
Distance *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool. Intelligence Human Detection Support the classification and accurate detection of human Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Video Compression Network Port RJ-45 (10/100 Base-T) RJ-45 (10/100 Base-T) RJ-45 (10/100 Base-T) Network Port RJ-45 (10/100 Base-T) Network Protocol RTMP; SMTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P; Auto Registration User/Host ONVIF (Profile S & Profile T); CGI User/Host FTP Video Compression H.265; H.264; H.264H; H.264B; MJPEG (Only supported) Browser IE; Chrome; Firefox		3.6 mm						Alarm	
The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool. Intelligence Human Detection Support the classification and accurate detection of human Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Video The numbers in this table do not reflect intelligent function distances, refer to installation and course detection of head of the project design tool. Network Port RJ-45 (10/100 Base-T) Retwork Port RJ-45 (10/100 Base-T) Network Protocol IPV4; IPV6; HTTP; TCP; UDP; ARP; RTSP; RTSP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P; Auto Registration Video Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video FTP Video Compression H.265; H.264; H.264B; MJPEG (Only supported) Browser IE; Chrome; Firefox		*DORI (Detect, Observe, Recognize, Identify) is a standard system						Alarm Event	motion detection; video tampering; audio detection;
and commissioning manual/project design tool. Intelligence Human Detection Support the classification and accurate detection of human Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Wideo Wideo Compression Network Protocol Network Protocol Interoperability ONVIF (Profile S & Profile T); CGI User/Host Storage FTP Wideo Compression Not (10/10/0 Base-1) Yes IPv4; IPv6; HTTP; TCP; UDP; ARP; RTSP; RTS								Network	
Intelligence Human Detection Support the classification and accurate detection of human Swart Search Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Wideo Compression SDK and API Yes IPv4; IPv6; HTTP; TCP; UDP; ARP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P; Auto Registration Interoperability ONVIF (Profile S & Profile T); CGI User/Host Storage FTP Video Compression H.265; H.264; H.264B; MJPEG (Only supported) Browser IE; Chrome; Firefox			distances. For intelligent function distances, refer to installation					Network Port	RJ-45 (10/100 Base-T)
Human Detection Support the classification and accurate detection of human Network Protocol Network	Intallinan		ioning manual/project design tool.					SDK and API	Yes
Smart Search intelligent search, event extraction and merging to event videos User/Host 6 (Total bandwidth: 24 M) Video Video Compression H.265; H.264; H.264B; MJPEG (Only supported Browser IE; Chrome; Firefox	Human Detection							Network Protocol	RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast;
event videos User/Host 6 (Total bandwidth: 24 M) Video Storage FTP Video Compression H.265; H.264; H.264B; MJPEG (Only supported Browser IE; Chrome; Firefox	Smart Search							Interoperability	ONVIF (Profile S & Profile T); CGI
Video Compression H.265; H.264; H.264B; MJPEG (Only supported Browser IE; Chrome; Firefox								User/Host	6 (Total bandwidth: 24 M)
Video Compression	Video							Storage	FTP
by the sub stream)	Video Compression						Browser	IE; Chrome; Firefox	

Entry Series | DH-IPC-HDBW1239E1-A-IL

Management Software	Smart PSS Lite; DSS; DMSS			
Mobile Client	iOS;Android			
Security	Digest;WSSE;Account lockout;Security logs;Generation and importing of X.509 certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade			
Certification				
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU			
Power				
Power Supply	12 VDC (±30%); PoE (802.3af)			
Power Consumption	Basic: 2.3 W (12 VDC); 3.1 W (PoE); Max.: 6.8 W (12 VDC); 7.9 W (PoE) (H.265 + intelligence on + illuminator intensity)			
Environment				
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Operating Humidity	≤95% (RH), non-condensing			
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Storage Humidity	≤95% (RH), non-condensing			
Protection	IP67; IK08			
Structure				
Casing Material	Metal + Plastic			
Product Dimensions	81.0 mm × Φ109.9 mm (3.19" × Φ4.33")			
Net Weight	0.33 kg (0.73 lb)			
Gross Weight	0.48 kg (1.06 lb)			

Ordering Information								
Туре	Model	Description						
IP CAMERA	DH-IPC-HDBW1239E1-A-IL	2MP Entry Smart Dual Light Fixed-focal Dome Network Camera						
	DH-PFB220C	Ceiling Mount Bracket						
	DH-PFA109	Mount Adapter						
	DH-PFB305W	Wall Mount Bracket						
	DH-PFA151	Corner Mount Bracket						
	DH-PFA150	Pole Mount Bracket						
Accessories (Optional)	DH-PFB203W	Wall Mount Bracket						
	DH-PFA156	Pole Mount Bracket						
	DH-PFA136	Junction Box						
	DH-PFM321-EN	DC12V1A power adapter						
	DH-PFM320D-EN	DC12V2A power adapter						
	PFM900-E	Integrated Mount Tester						

Accessories

Optional:







DH-PFA109 Mount Adapter

DH-PFA136 Junction Box

DH-PFA150 Pole Mount Bracket







DH-PFA151 Corner Mount Bracket

DH-PFA156 Pole Mount Bracket

DH-PFB203W Wall Mount Bracket







DH-PFB220C Ceiling Mount Bracket

DH-PFB305W Wall Mount Bracket

DH-PFM320D-EN DC12V2A power adapter

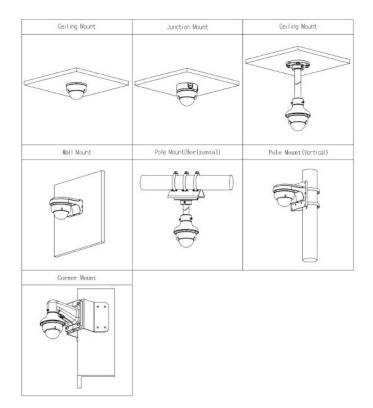




PFM900-E

DH-PFM321-EN DC12V1A power adapter

Integrated Mount Tester



Dimensions (mm[inch])

