

DH-IPC-HDW1439V-PV

4MP Entry Smart Dual Light Active Deterrence Fixed-focal Eyeball 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 mediumsized enterprises.

Functions

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

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.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2560 × 1440)@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.
- 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.
- Abnormality detection: Motion detection, video tampering, audio detection, network disconnection, IP conflict and illegal access.
- Built-in Mic; built-in speaker; support two-way talk.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- Sound and light alarm.
- Supports human detection.
- One-tap arming/disarming.



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.

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.

Entry Series | DH-IPC-HDW1439V-PV

Technical Specification Camera 1/2.9" CMOS Image Sensor 2560 (H) × 1440 (V) Max. Resolution ROM 128 MB 128 MB RAM Scanning System Progressive Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s 0.006 lux@F1.6 (Color, 30 IRE) Min. Illumination 0.0006 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on) S/N Ratio >56 dB Up to 30 m (98.43 ft) (IR) Illumination Distance Up to 30 m (98.43 ft) (Warm light) Illuminator On/Off Control Auto;Manual Illuminator Number 1 (IR LED); 1 (Warm light) Pan: 0°-360° Angle Adjustment Tilt: 0°-78° Rotation: 0°-360° Lens Lens Type Fixed-focal Lens Mount M12 Focal Length 2.8 mm; 3.6 mm Max. Aperture F1.6 2.8 mm: H: 94°; V: 51°; D: 110° Field of View 3.6 mm: H: 78°; V: 42°; D: 92° Iris Control Fixed 2.8 mm: 1.1 m (3.61 ft) Close Focus Distance 3.6 mm: 1.5 m (4.92 ft) Observe Recognize Identify Lens Detect 64.0 m 25.6 m 12.8 m 6.4 m 2.8 mm (209.97 ft) (83.99 ft) (41.99 ft) (20.99 ft) 78.0 m 31.2 m 15.6 m 7.8 m 3.6 mm (255.91 ft) (102.36 ft) (51.18 ft) (25.59 ft) 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 distances, refer to installation and commissioning manual/project design tool.

Intelligence

Human Detection	Support the classification and accurate detection of human
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Video	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)

NateMain stream: 256 × 1440@(1-25/30 fps) yib stream: 704 × 576@(1-25 fps)/704 × 480@(1-30Video Frame RateSive stoowa are the max, frame rates of acubiceted to the total encoding capacity.Stream Capability2 streamsResolutionCBK/VBRVideo Bit RateCBK/VBRVideo Bit RateH264: 32 kbps-4096 kbps; t.265: 12 kbps-4096 kbps; Acds: 12 kbps-40	Smart Codec	Smart H.265+; Smart H.264+
Autorian Aut (2560 × 1440); 3M (2304 × 1296); 10800 (1320 × 200); 210 (704 × 80); 220 (1280 × 720); D1 (704 × 720);	Video Frame Rate	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
Resolutionlsis: 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × S76/704 × 480); VGA (640 × 480); CIF (352 × 288/3	Stream Capability	2 streams
Nideo Bit RateI.264: 32 kbps-4096 kbps; I.255: 12 kbps-4096 kbps; <b< td=""><td>Resolution</td><td>1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 ×</td></b<>	Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 ×
Video Bit KateH.265: 12 kbps-4096 kbpsDay/NightAuto(ICR)/Color/B/WBLCYesHLCYesWDR120 dBWhite BalanceAuto; natural; street lamp; outdoor; manual; regional customGain ControlManual;AutoNoise Reduction3D NRMotion DetectionOFF/ON (4 areas, rectangular)Region of Interest (Rol)Yes (4 areas)Smart IlluminationYesImage Rotation0/180°MirrorYes, built-in MicBuilt-in MICYes, built-in MicBuilt-in SpeakerYes, built-in SpeakerAudio CompressionG.711a; G.711Mu; PCM; G.726Alarm EventNetwork disconnection; IP conflict; Illegal access; motion detection; video tampering;audio detection ;MD (human); security exception;Network PortR+45 (10/100 Base-T)Sta and APIYesInteroperabilityONVIF (Profile S & Profile T); CGIIverpressilityONVIF (Profile S & Profile T); CGI	Bit Rate Control	CBR/VBR
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NetworkWhite BalanceAuto; natural; street lamp; outdoor; manual; regionall customGain ControlManual;AutoNoise Reduction3D NRMotion DetectionOFF/ON (4 areas, rectangular)Region of Interest (Rol)Yes (4 areas)Smart IlluminationYesSmart Dual LightYesImage RotationO'/180°MirrorYesPrivacy Masking4 areasBuilt-in MICYes, built-in MicBuilt-in SpeakerYes, built-in speakerAudio Compression6.711a; G.711Mu; PCM; G.726Alarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering;audio detection syD (human); security exception;Network PortRu-45 (10/100 Base-T)SDK and APIYes', PITP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; CMP; IGMP ; P2P; Auto RegistrationInteroperabilityONVIF (Profile S & Profile T); CGIUser/HostAVIF (Profile S & Profile T); CGI	HLC	Yes
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Noise ReductionJD NRNotion DetectionOFF/ON (4 areas, rectangular)Region of Interest (Rol)Yes (4 areas)Smart IlluminationYesSmart Dual LightYesImage Rotation0'/180°MirrorYesPrivacy Masking4 areasBuilt-in MICYes, built-in MicBuilt-in SpeakerYes, built-in speakerAudioOr/180°.Built-in SpeakerSch built-in speakerAudio CompressionG.711a; G.711Mu; PCM; G.726Alarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering;audio detection ;SMD (human); security exception;Network PortR-45 (10/100 Base-T)SDK and APIYesNetwork ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; CMP; IGMP; IP2P; Auto RegistrationInteroperabilityONVIF (Profile S & Profile T); CGIUser/HostG(total bandwidth: 24 M)	White Balance	
Notion DetectionOFF/ON (4 areas, rectangular)Region of Interest (Rol)Yes (4 areas)Smart IlluminationYesSmart Dual LightYesImage Rotation0'/180°MirrorYesPrivacy Masking4 areasAudioYes, built-in MicBuilt-in MICYes, built-in MicBuilt-in SpeakerYes, built-in speakerAudio Compression6.711a; G.711Mu; PCM; G.726AlarmNetwork disconnection; IP conflict; illegal access; syDh (human); security exception; syDh (human); security exception;Network PortRI-45 (10/100 Base-T)SpK and APIYesNetwork ProtocolIPV4; IPV6; HTTP; TCP; UDP; ARP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; F2P; Auto RegistrationInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6 (Total bandwidth: 24 M)	Gain Control	Manual;Auto
Region of Interest (Rol)Yes (4 areas)Smart IlluminationYesSmart Dual LightYesImage Rotation0"/180"MirrorYesPrivacy Masking4 areasAudioYes, built-in MicBuilt-in MICYes, built-in MicBuilt-in SpeakerYes, built-in speakerAudio Compression6.711a; G.711Mu; PCM; G.726Alarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering;audio detection ;SMD (human); security exception;Network PortRI-45 (10/100 Base-T)SDK and APIYesNetwork ProtocolIP44; IPv6; HTTP; TCP; UDP; ARP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; F2P; Auto RegistrationInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6.(Total bandwidth: 24 M)	Noise Reduction	3D NR
Smart IlluminationYesSmart Dual LightYesImage Rotation0°/180°MirrorYesPrivacy Masking4 areasAudioYes, built-in MicBuilt-in MICYes, built-in MicBuilt-in SpeakerYes, built-in speakerAudio CompressionG.711a; G.711Mu; PCM; G.726Alarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering;audio detection ;SDD (human); security exception;Network PortRJ-45 (10/100 Base-T)SDK and APIYesInteroperabilityIPV4; IPV6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; (CMP; IGMP ; P2P; Auto RegistrationInteroperabilityONVIF (Profile S & Profile T); CGIUser/HostG(Total bandwidth: 24 M)	Motion Detection	OFF/ON (4 areas, rectangular)
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Image Rotationo*/180°MirrorYesPrivacy Masking4 areasAudioBuilt-in MICYes, built-in MicBuilt-in SpeakerYes, built-in speakerAudio CompressionG.711a; G.711Mu; PCM; G.726Alarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering;audio detection ;SMD (human); security exception;Network PortRJ-45 (10/100 Base-T)SDK and APIYesNetwork ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; (CMP; IGMP ; P2P; Auto RegistrationInteroperabilityONVIF (Profile S & Profile T); CGIUser/HostG (Total bandwidth: 24 M)	Smart Illumination	Yes
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AudioBuilt-in MICYes, built-in MicBuilt-in SpeakerYes, built-in speakerAudio CompressionG.711a; G.711Mu; PCM; G.726AlarmCompressionAlarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering;audio detection ;SMD (human); security exception;Network PortRJ-45 (10/100 Base-T)SDK and APIYesNetwork ProtocolIPV4; IPV6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ; P2P; Auto RegistrationInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6 (Total bandwidth: 24 M)	Mirror	Yes
Built-in MICYes, built-in MicBuilt-in SpeakerYes, built-in speakerAudio CompressionG.711a; G.711Mu; PCM; G.726AlarmNetwork Gisconnection; IP conflict; illegal access; motion detection; video tampering;audio detection ;SMD (human); security exception;Alarm EventNetwork disconnection; Video tampering;audio detection ;SMD (human); security exception;Network PortRJ-45 (10/100 Base-T)SDK and APIYesNetwork ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ; P2P; Auto RegistrationInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6 (Total bandwidth: 24 M)	Privacy Masking	4 areas
Audio CompressionYes, built-in speakerAudio CompressionG.711a; G.711Mu; PCM; G.726AlarmNetwork G.726Alarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering;audio detection ;SMD (human); security exception;NetworkRI-45 (10/100 Base-T)SDK and APIYesNetwork ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ; P2P; Auto RegistrationInteroperabilityONVIF (Profile S & Profile T); CGIUser/HostG (Total bandwidth: 24 M)	Audio	
Audio CompressionG.711a; G.711Mu; PCM; G.726AlarmAlarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering;audio detection ;SMD (human); security exception;NetworkRI-45 (10/100 Base-T)SDK and APIYesNetwork ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ; P2P; Auto RegistrationInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6 (Total bandwidth: 24 M)	Built-in MIC	Yes, built-in Mic
Alarm Network disconnection; IP conflict; illegal access; motion detection; video tampering;audio detection ;SMD (human); security exception; Network RI-45 (10/100 Base-T) SDK and API Yes Network Protocol IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ; P2P; Auto Registration Interoperability ONVIF (Profile S & Profile T); CGI User/Host 6 (Total bandwidth: 24 M)	Built-in Speaker	Yes, built-in speaker
Alarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering;audio detection ;SMD (human); security exception;NetworkRJ-45 (10/100 Base-T)Network PortRJ-45 (10/100 Base-T)SDK and APIYesNetwork ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ; P2P; Auto RegistrationInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6 (Total bandwidth: 24 M)	Audio Compression	G.711a; G.711Mu; PCM; G.726
Alarm Event motion detection; video tampering;audio detection ;SMD (human); security exception; Network RJ-45 (10/100 Base-T) Network Port RJ-45 (10/100 Base-T) SDK and API Yes Network Protocol IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ; P2P; Auto Registration Interoperability ONVIF (Profile S & Profile T); CGI User/Host 6 (Total bandwidth: 24 M)	Alarm	
Network Port RJ-45 (10/100 Base-T) SDK and API Yes Network Protocol IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ; P2P; Auto Registration Interoperability ONVIF (Profile S & Profile T); CGI User/Host 6 (Total bandwidth: 24 M)	Alarm Event	motion detection; video tampering;audio detection
SDK and API Yes Network Protocol IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ; P2P; Auto Registration Interoperability ONVIF (Profile S & Profile T); CGI User/Host 6 (Total bandwidth: 24 M)	Network	
Network Protocol IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ; P2P; Auto Registration Interoperability ONVIF (Profile S & Profile T); CGI User/Host 6 (Total bandwidth: 24 M)	Network Port	RJ-45 (10/100 Base-T)
Network Protocol RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ; P2P; Auto Registration Interoperability ONVIF (Profile S & Profile T); CGI User/Host 6 (Total bandwidth: 24 M)	SDK and API	Yes
User/Host 6 (Total bandwidth: 24 M)	Network Protocol	RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast;
	Interoperability	ONVIF (Profile S & Profile T); CGI
Storage FTP	User/Host	6 (Total bandwidth: 24 M)
	Storage	FTP

Entry Series | DH-IPC-HDW1439V-PV

Browser	IE; Chrome; Firefox	Туре
Management Software	Smart PSS Lite; DSS; DMSS	
Mobile Client	iOS;Android	
Cyber Security	Video encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;Generation and importing of X.509 certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade	Accessories
Certification		
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU	Optional:
Power		
Power Supply	12 VDC/PoE (802.3af)	DH-PFA109
Power Consumption	Basic: 1.8 W (12 VDC); 2.5 W (PoE); Max.: 8.5 W (12 VDC); 10 W (PoE) (H.265 + intelligence on + WDR + IR intensity + warm light deterrence + speaker)	Mount Adapter
Environment		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤95% (RH), non-condensing	DH-PFA151 Corner Mount Bracket
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Storage Humidity	≤95% (RH), non-condensing	
Protection	IP67	
Structure		DH-PFB205W-E
Casing Material	Inner core: Metal + Plastc; Cover: Plastc	Wall Mount Bracket
Product Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")	12 +
Net Weight	0.32 kg (0.71 lb)	
Gross Weight	0.46 kg (1.01 lb)	-
		DH-PFM321D-EN

Ordering Information

0				
Туре	Model	Description		
IP CAMERA	DH-IPC-HDW1439V-PV	4MP Entry Smart Dual Light Active Deterrence Fixed-focal Eyeball Network Camera		
Accessories (Optional)	DH-PFA109	Mount Adapter		
	DH-PFB220C	Ceiling Mount Bracket		
	DH-PFB305W	Wall Mount Bracket		
	DH-PFA151	Corner Mount Bracket		
	DH-PFA150	Pole Mount Bracket		
	DH-PFA152-E	Pole Mount Bracket		
	DH-PFB205W-E	Wall Mount Bracket		
	DH-PFA13G	Junction Box		
	DH-PFM321-EN	DC12V1A power adapter		

Model	Description
DH-PFM321D-EN	DC12V 1A power adapter
DH-PFM320D-EN	DC12V2A power adapter
PFM900-E	Integrated Mount Tester

ccessories

Optional:





DH-PFB220C Ceiling Mount Bracket





DH-PFA152-E Pole Mount Bracket

DH-PFB305W

Wall Mount Bracket



DH-PFA150

Pole Mount Bracket



DH-PFB205W-E Wall Mount Bracket

DH-PFA13G Junction Box

DH-PFM321-EN DC12V1A power adapter



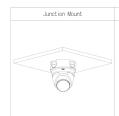
DC12V 1A power adapter



DH-PFM320D-EN DC12V2A power adapter



Integrated Mount Tester

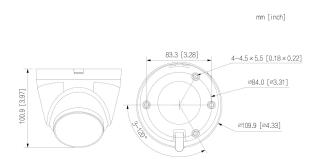








Dimensions (mm[inch])



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