

DH-IPC-PTS1439B-E2-S-PV

4+4MP Active Deterrence Dual-lens Fixed-focal Entry Network PT 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.

SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm. *SMD Plus takes effect when SMD is selected in AI Mode.

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 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 1/3" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2560 × 1440)@25 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED and warm light, the max. IR distance is 30 m and 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, no SD card, SD card full, SD card error, network disconnection, • IP conflict and illegal access.
- Supports max. 256 G Micro SD card; built-in Mic; built-in speaker; supports two-way talk.
- 12 VDC/PoE power supply, easy for installation.
- IP66 protection.
- Sound and light alarm.
- SMD Plus.
- One-tap arming/disarming.



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.

Protection (Wide Voltage)

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.

Technical Specification	
Camera	
Image Sensor	Channel 1 (PT Lens): 1/3" CMOS Channel 2 (Fixed Lens): 1/3" CMOS
Max. Resolution	Channel 1 (PT Lens): 2560 (H) × 1440 (V) Channel 2 (Fixed Lens): 2560 (H) × 1440 (V)
ROM	128 MB
RAM	512 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.008 lux@F1.6 (Color,30 IRE) 0.0008 lux@F1.6(B/W,30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)
Illuminator On/Off Control	Auto; Manual
Illuminator Number	4 (IR LED); 4 (Warm light)

Lens					
Lens Type		Channel 1 (PT Lens): Fixed-focal Channel 2 (Fixed Lens): Fixed-focal			
Lens Mount		M12			
Focal Length		Channel 1 (PT Lens): 3.6 mm Channel 2 (Fixed Lens): 3.6 mm			
Max. Aperture		Channel 1 (PT Lens): F1.6 Channel 2 (Fixed Lens): F1.6			
Field of View		Channel 1 (PT Lens): H: 78°; V: 42°; D: 92° Channel 2 (Fixed Lens): H: 78°; V: 42°; D: 92°			
Iris Control		Fixed			
Close Focus Distance		Channel 1 (PT Lens): 1.5 m (4.92 ft) Channel 2 (Fixed Lens): 1.5 m (4.92 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	Channel 1 (PT Lens)	78.0 m (255.91 ft)	31.2 m (102.36 ft)	15.6 m (51.18 ft)	7.8 m (25.59 ft)
	Channel 2 (Fixed Lens)	78.0 m (255.91 ft)	31.2 m (102.36 ft)	15.6 m (51.18 ft)	7.8 m (25.59 ft)
	*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	
SMD	SMD Plus
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 sub stream)
Smart Codec	Smart H.265+; Smart H.264+

Video Frame Rate	Channel 1 (PT Lens): Main stream: 2560 × 1440@(1–25 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–25 fps) Channel 2 (Fixed Lens): Main stream: 2560 × 1440@(1–25 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–25 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.
Streaming Capability	2 streams
Resolution	Channel 1 (PT Lens): 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240); Channel 2 (Fixed Lens): 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	VBR; CBR
Video Bit Rate	H.264: 32 kbps–6144 kbps; H.265: 32 kbps–6144 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (Rol)	Yes (4 areas)
Smart Illumination	Yes
Smart Dual Light	Yes
Image Rotation	0°/180°
Mirror	Yes
Privacy Masking	4 areas

Audio	
Built-in MIC	Yes, built-in Mic
Built-in Speaker	Yes, built-in speaker
Audio Compression	G.711a; G.711Mu; PCM; G.726

Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD; security exception

Network	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes

Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTPC; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P; Auto Registration
Security	HTTPS; Trusted upgrade; Digest; WSSE; Account lockout; Trusted execution; Generation and importing of X.509 certification; Security logs; Trusted boot
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI
User/Host	20 (Total bandwidth: 48 M)
Storage	FTP; Micro SD card (support max. 256 GB)
Browser	IE; Chrome; Firefox
Management Software	Smart PSS Lite; DSS; DMSS
Mobile Client	Android; iOS

Function

Light Warning	Warm light warning Flash/Solid on duration: 5 s–180 s Flash frequency: high, medium, low
Sound Warning	Offers 3 sound alarms and supports importing custom sound alarms. Sound: 0–100. Play times can be set from 1 to 10.

PTZ

Pan/Tilt Range	Channel 1 (PT Lens): Pan: 0° to 350°; Tilt: 0° to 90°; Channel 2 (Fixed Lens): Pan: 0° to 326°; Tilt: –10° to 15°
Manual Control Speed	Pan: 0.1°/s–55.4°/s; Tilt: 0.1°/s–29.3°/s
Preset	50
Preset Speed	Pan: 55.4°/s; Tilt: 29.3°/s
Power-off Memory	Yes
Idle Motion	Preset

Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
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Power

Power Supply	12 VDC (±30%); PoE (802.3af)
Power Consumption	Basic: 3.2 W (12 VDC); 4.2 W (PoE); Max.: 8.6 W (12 VDC); 10.5 W (PoE) (intelligence on + WDR + illuminator on + PT rotation + speaker on)

Environment

Operating Temperature	–40 °C to +50 °C (–40 °F to +122 °F)
Operating Humidity	≤95% (RH), non-condensing
Storage Temperature	–40 °C to +50 °C (–40 °F to +122 °F)
Storage Humidity	≤95% (RH), non-condensing
Protection	IP66

Structure

Casing Material	Plastic
Product Dimensions	159.4 mm × 110.1 mm × 210 mm (6.28" × 4.33" × 8.27") (L × W × H)
Net Weight	0.62 kg (1.37 lb)
Gross Weight	0.85 kg (1.87 lb)

Ordering Information

Type	Model	Description
IP CAMERA	DH-IPC-PTS1439B-E2-S-PV	4+4MP Active Deterrence Dual-lens Fixed-focal Entry Network PT Camera
Accessories (Optional)	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	Integrated Mount Tester
	DHI-TF-P100/256GB	MicroSD Card

Accessories

Optional:



DH-PFM320D-EN
DC12V2A power adapter



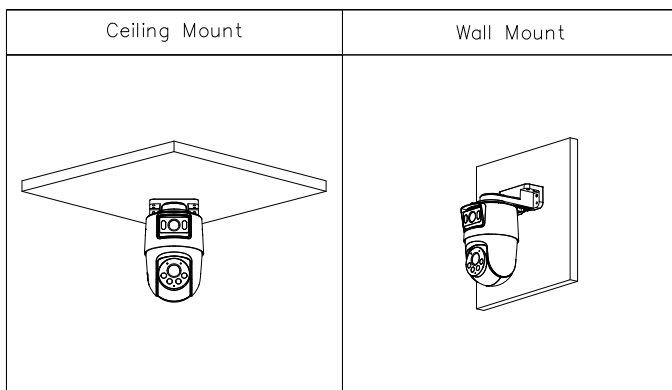
DH-PFM321-EN
DC12V1A power adapter



TF-P100
MicroSD
Memory Card



PFM900-E
Integrated Mount Tester



Dimensions (mm[inch])

