

DH-IPC-PTS1439B-E2-S-PV

4+4MP Active Deterrance 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.

Camera Specification Camera Specificat									
Charge Senter	Technical Specification								Main stream: 2560 × 1440@(1–25 fps)
Manual Resolution	Camera								fps)
Max. Resolution	Image Sensor		, , ,					Video Frame Rate	Main stream: 2560 × 1440@(1–25 fps)
## Annual Compression Programming System	Max. Resolution								fps) *The values above are the max. frame rates of each
	ROM		128 MB						
Betronic Shutter Speed	RAM		512 MB					Streaming Capability	2 streams
	Scanning System		Progressive						,
Ann. Illumination	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Resolution	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
	Min. Illumination		0.0008 lux@F1.6(B/W,30 IRE)						
Bit Rate Control Visis CBR	S/N Ratio		>56 dB						
Lens	Illumination	Distance						Bit Rate Control	VBR; CBR
Lens Type Channel 1 (PT Lens): Fixed-focal Channel 2 (Fixed Lens): Fixed-focal Channel 2 (Fixed Lens): Fixed focal Channel 2 (Fixed Lens): Fixed focal Channel 2 (Fixed Lens): 5.6 mm Channel 2 (Fixed Lens): 3.6 mm Channel 2 (Fixed Lens): 3.6 mm Channel 2 (Fixed Lens): 3.6 mm Channel 2 (Fixed Lens): 1.5 m (As 2 to 9.2° Channel 2 (Illuminator On/Off Control		Auto; Manual					Video Bit Rate	
Lens Type Channel 1 (PT Lens): Fixed focal Channel 2 (Fixed Lens): 3.6 mm Channel 2 (Fixed Lens): 1.5 m Channel 2 (Fixed Lens): Fix 6 Channel 1 (PT Lens): Fix 78°; V-42°; D: 92° Channel 2 (Fixed L	Illuminator Number		4 (IR LED); 4 (Warm light)					Day/Night	Auto(ICR)/Color/B/W
Lens Mount M12 Channel 2 (Fixed Lens): 3.6 mm Channel 2 (Fixed Lens): 1.16 Channel 2 (Fixed Lens): 1.15 Channel 1 C	Lens							BLC	Yes
Focal Length Channel 1 (PT Lens): 3.6 mm Channel 2 (Fixed Lens): 3.6 mm Channel 2 (Fixed Lens): 4.6 mm Channel 2 (Fixed Lens): 4.7 mm Channel 2 (Fixed Lens): 4.5 mm (4.92 ft) Channel 2 (Fixed Lens): 4.5 mm Channel 1 (78.0 mm (275.9 mm) 31.2 mm (275.0 mm) 31.2 mm	Lens Type		· · · · ·					HLC	Yes
Max. Aperture Channel 2 (Fixed Lens): 5.5 mm Channel 2 (Fixed Lens): F.1.6 Field of View Channel 2 (Fixed Lens): H.78°; V. 42°; D. 92° Channel 2 (Fixed Lens): H.78°; V. 42°; D. 92° Lens Channel 2 (Fixed Lens): H.5 m (4.92 ft) Channel 3 (Robert Lens): H.5 m (4.92 ft) Channel 4 (Robert Lens): H.5 m (4.92 ft) Channel 5 (Fixed Lens): H.5 m (4.92 ft) Channel 6 (Fixed Lens): H.5 m (4.92 ft) Channel 7 (Robert Lens): H.5 m (4.92 ft) Channel 8 (Fixed Lens): H.5 m (4.92 ft) Channel 9 (Fixed Lens): H.5 m (4.92 ft) Channel 1 (Robert Lens): H.5 m (4.92 ft) Channel 2 (Fixed Lens): H.5 m (4.92 ft) Channel 2 (Fixed Lens): H.5 m (4.92 ft) Channel 3 (Fixed Lens): H.5 m (4.92 ft) Channel 2 (Fixed Lens): H.5 m (4.92 ft) Channel 3 (Fixed Lens): H.5 m (4.92 ft) Channel 4 (Robert Lens): H.5 m (4.92 ft) Channel 5 (Fixed Lens): H.5 m (4.92 ft) Channel 6 (Robert Lens): H.5 m (4.92 ft) Channel 7 (Robert Lens): H.5 m (4.92 ft) Channel 8 (Fixed Lens): H.5 m (4.92 ft) Channel 9 (Fixed Lens): H.5 m (4.92 ft) Channel 1 (Robert Lens): H.5 m (4.92 ft) Channel 2 (Fixed Lens): H.5 m (4.92 ft) Frivary Masking 4 areas Audio Wirror Yes Privary Masking 4 areas Audio Built-in MIC Yes, built-in speaker Audio Compression G.711a; G.711Mu; PCM; G.726 Alarm No SD card; SD card full; SD card error; network disconnection; Pconflict; Illegal access; motion detection; yideo tampering; audio detection; SMD; security exception Video Compression H.265; H.264; H.264H; H.264B; MIPEG (Only supported	Lens Mount		M12					WDR	120 dB
Field of View Channel 1 (Fixed Lens): F1.6 Field of View Channel 2 (Fixed Lens): H. 78°; V: 42°; D: 92° Iris Control Fixed Channel 2 (Fixed Lens): H. 78°; V: 42°; D: 92° Iris Control Fixed Channel 1 (PT Lens): 1.5 m (4.92 R) Channel 2 (Fixed Lens): 1.5 m (4.92 R) Channel 2 (Fixed Lens): 1.5 m (4.92 R) Channel 2 (Fixed Lens): 1.5 m (4.92 R) Channel 1 (PT Lens): 1.5 m (4.92 R) Channel 1 (255.91 R) (102.36 ft) (51.18 ft) (25.99 R) Channel 2 (Fixed Lens): 1.5 m (4.92 R) Channel 2 (Fixed Lens): 1.5 m (4.92 R) Channel 2 (Fixed Lens): 1.5 m (4.92 R) Channel 1 (78.0 m 31.2 m 15.6 m 7.8 m (255.91 R) (102.36 ft) (51.18 ft) (25.59 R) Channel 2 (Fixed Lens) Channel 2 (Fixed Lens): 1.5 m (4.92 R) Smart Dual Light 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 MIC Yes, built-in Mic Built-in MIC Yes, built-in speaker Audio Compression G.711a; G.711Mu; PCM; G.726 Alarm Video Video Video Video Ownerssion H.265; H.264; H.264H; H.264B; MJPEG (Only supported by sub stream) Fixed Codes Fixed Lens 1 (Fixed Lens): 1.5 m (4.92 R) Motion Detection OF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Smart Dual Light Yes (4 areas) Smart Dual Light Yes Image Rotation 0°/180° Mirror Yes Privacy Masking 4 areas Audio Built-in MIC Yes, built-in Mic Built-in MIC Yes, built-in speaker Audio Compression G.711a; G.711Mu; PCM; G.726 Alarm No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampening; audio detection; SMD; security exception Video Compression H.265; H.264; H.264H; H.264B; MJPEG (Only supported by sub stream) Network Port	Focal Length		· · · · ·					White Balance	
Field of View Channel 2 (Fixed Lens): H: 787, V. 42°; D: 92° Iris Control Fixed Close Focus Distance Channel 1 (PT Lens): 1.5 m (4.92 ft) Channel 2 (Fixed Lens): H: 787, V. 42°; D: 92° Close Focus Distance Channel 1 (PT Lens): 1.5 m (4.92 ft) Channel 2 (Fixed Lens): 1.5 m (4.92 ft) Channel 2 (Fixed Lens): 1.5 m (4.92 ft) Channel 1 (25.91 ft) (10.23.6 ft) (25.91 ft)	Max. Apertu	re	· · · · ·					Gain Control	Auto/Manual
Close Focus Distance Channel 1 (PT Lens): 1.5 m (4.92 ft) Channel 2 (Fixed Lens): 1.5 m (4.92 ft) Channel 1 78.0 m (25.5 91 ft) (102.36 ft) (51.18 ft) (25.59 ft) Channel 2 (Fixed Lens) Channel 2	Field of View		Channel 1 (PT Lens): H: 78°; V: 42°; D: 92°					Noise Reduction	3D NR
Close Focus Distance Channel 1 (PT Lens): 1.5 m (4.92 ft) Channel 2 (Fixed Lens): 1.5 m (4.92 ft) Channel 2 (Fixed Lens): 1.5 m (4.92 ft) Lens Detect Observe Recognize Identify Channel 1 (PT Lens) (25.59 ft) (102.36 ft) (51.18 ft) (25.59 ft) DORI Distance Channel 2 (Fixed Lens): 1.5 m (4.92 ft) (25.59 ft) Channel 2 (Fixed Lens): 1.5 m (4.92 ft) (25.59 ft) (102.36 ft) (51.18 ft) (25.59 ft) DORI Distance *DORI (Ethodo Top Control of Lens) *DORI (E								Motion Detection	OFF/ON (4 areas, rectangular)
Lens		Distance						Region of Interest (RoI)	Yes (4 areas)
Channel 1 (PT Lens) (255.91 ft) (102.36 ft) (51.18 ft) (25.59 ft) DORI Distance Channel 2 (Fixed Lens) (255.91 ft) (102.36 ft) (51.18 ft) (25.59 ft) Privacy Masking 4 areas *DORI (Detect, Observe, Recognize, Identify) is a standard system (25.59 ft) (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 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) First Codes are selected as a selected of the compression of	Close Focus I	Distance	· · · · · · · · · · · · · · · · · · ·					Smart Illumination	Yes
Channel 2 (Fixed Lens) (25.59 ft) (102.36 ft) (51.18 ft) (25.59 ft) (25				Observe				Smart Dual Light	Yes
DORI Distance 2 (Fixed Lens) (255.91 ft) (102.36 ft) (102.36 ft) (102.36 ft) (25.59 ft) (25.90 ft) (25.59 ft)								Image Rotation	0°/180°
DORI Distance Lens) L			78.0 m	31.2 m	15.6 m	7.8 m		Mirror	Yes
*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 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) Firest Notes and the first function of the 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 Built-in MIC Yes, built-in Mic Built-in Speaker Yes, built-in speaker Addio 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 Network Port RJ-45 (10/100 Base-T)		•	(255.91 ft)	(102.36 ft)	(51.18 ft)	(25.59 ft)		Privacy Masking	4 areas
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 Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Wideo Compression H.265; H.264; H.264H; H.264B; MJPEG (Only supported by sub stream) Exerct Codes We 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/ Personal Peaker Audio Compression G.711a; G.711Mu; PCM; G.726 Alarm 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 Network Port RJ-45 (10/100 Base-T)	Distance							Audio	
function distances, refer to installation and commissioning manual/project design tool. Built-in Speaker Yes, built-in speaker		distinguish pe	stinguish persons or objects within a covered area. The numbers in					Built-in MIC	Yes, built-in Mic
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) Adarm Event Search SMD; security exception Alarm Event Search SMD; security exception Network Network Port RJ-45 (10/100 Base-T)	function dist		ances, refer to installation and commissioning manual/					Built-in Speaker	Yes, built-in speaker
SMD SMD Plus Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Video Compression Mo 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 Network Port RJ-45 (10/100 Base-T)			i tooi.					Audio Compression	G.711a; G.711Mu; PCM; G.726
Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Video Compression Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Alarm Event Alarm Event No SD card; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD; security exception Network Network Network Port RJ-45 (10/100 Base-T)						Alarm			
Video Compression H.265; H.264; H.264B; MJPEG (Only supported by sub stream) Network Network Port RJ-45 (10/100 Base-T)			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD;
Video Compression by sub stream) Network Port RJ-45 (10/100 Base-T)	Video							Network	
Smart Codec Smart H.265+; Smart H.264+ SDK and API Yes	Video Compression							Network Port	RJ-45 (10/100 Base-T)
	Smart Codec		Smart H.265+; Smart H.264+					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	
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	
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

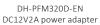
Casing Material	Plastic
Product Dimensions	159.4 mm × 110.1 mm × 210 mm (6.28" × 4.33" × 8.27") (L × W × H)
Net Weight	0.62 kg (1.37 lb)
Gross Weight	0.85 kg (1.87 lb)

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

Accessories

Optional:







DH-PFM321-EN DC12V1A power adapter



TF-P100 MicroSD Memory Card



PFM900-E Integrated Mount Tester

Ceiling Mount	Wall Mount

Dimensions (mm[inch])

