

# DH-HAC-PTS1500C-E2-IL-A

## 2+2MP Smart Dual Light Outdoor HDCVI Dual-Lens PT Camera



### Series Overview

The PT Series boasts a compact design that enables horizontal and vertical rotation, delivering a wide monitoring area. With the integration of both panoramic and detail cameras, it achieves an exceptional balance between the two. Moreover, this series features diverse models with distinct structures, ensuring it can cater to the requirements of various large-scale monitoring scenes.

### Functions

#### Pan & Tilt

Developed with a PT design, it has a dual shaft and dual motor. The motor can control the pan range from 0° to 355° and the tilt range from 0° to 90°, covering all the corners without any dead angles. This extends the monitoring area.

#### Manual Linkage

Any location can be selected in the panoramic image for the system to seamlessly link with the lens of the detail camera to intelligently move and monitor the specified location. This remarkable capability provides you with a clear and highly detailed view of the chosen area.

#### Built-in Mic

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

#### Smart Dual Light

With Smart Dual Light technology, you can select Smart Illumination Mode for the system to automatically switch between IR mode and white light mode. It allows white light to be turned on when a target is detected by the SMD Plus/Perimeter Protection function of AI-enabled XVR. This significantly reduces light pollution at night. Together with other modes, including IR Mode and White Light Mode, the smart dual light technology can meet the requirements of a wide variety of scenes.

\* In order to use the 5MP 16:9 and the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.

- Max 25 fps@5 MP (16:9 video output).
- Smart Dual Light.
- 50 m illumination distance.
- Super Adapt.
- Built-in Mic.
- Manual Linkage.
- 2.8 mm fixed lens, 6 mm PT Lens.
- Supports manual adjustment of fixed lens (Vertical: 5° to 10°).
- CVI/CVBS/AHD/TVI switchable.
- IP66, 12 VDC.



#### Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

#### Advanced 3DNR

Dahua's advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

#### 4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio\*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

\* Audio input is available for select HDCVI camera models.

#### Long Distance Transmission

HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 300m for 2MP HD videos through coaxial cables, and up to 200m through UTP cables.

\*The results were obtained and verified through rigorous testing in Dahua's test laboratory.

Technical Specification

Camera	
Image Sensor	2 × 2 MP CMOS
Max. Resolution	2880 (H) × 1620 (V)
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/25 s-1/1,000 s NTSC: 1/30 s-1/1,000 s
Min. Illumination	0.005 lux@F2.0 (Color, 30 IRE) 0.0005 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>65 dB
Illumination Distance	IR: 50 m (164.04 ft) Warm Light: 50 m (164.04 ft)
Illuminator On/Off Control	Auto
Illuminator Number	Fixed Lens: 4 (Multi-core light) PT Lens: 2 (Multi-core light)
Angle Adjustment	Fixed Lens: Tilt: 5°–10° PT Lens: Pan: 0°–355°; Tilt: 0°–90° Bracket: Pan: 0°–326°

Lens	
Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	PT Lens: 6 mm Fixed Lens: 2.8 mm
Max. Aperture	F2.0
Field of View	Fixed Lens: H: 111.3°; V: 60.8°; D: 134.2° PT Lens: H: 48.1°; V: 26.7°; D: 55.5°
Close Focus Distance	Fixed Lens: 0.5 m (1.64 ft) PT Lens: 2.3 m (7.55 ft)
Iris Control	Fixed
Close Focus Distance	2.8 mm: 0.5 m (1.64 ft); 6 mm: 2.3 m (7.55 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	Fixed Lens	40.6 m (133.20 ft)	16.2 m (53.15 ft)	8.1 m (26.57 ft)	4.1 m (13.45 ft)
	PT Lens	93.3 m (306.10 ft)	37.3 m (122.38 ft)	18.7 m (61.35 ft)	9.3 m (30.51 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.				

Video	
Video Frame Rate	CVI: PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4M@25 fps NTSC: 4M@30 fps TVI: PAL: 4M@25 fps NTSC: 4M@30 fps CVBS: PAL: 960H NTSC: 960H
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)

Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; HLC; DWDR
White Balance	Auto; Area white balance
Gain Control	Auto
Noise Reduction	3D NR
Illumination Mode	Smart IR&WL; WL Mode; IR Mode
Defog	Electronic defog
Mirror	Yes
Privacy Masking	Off/On (8 areas, rectangle)

PT	
Pan/Tilt Range	Pan: 0°–355° Tilt: 0°–90° *Do not manually adjust the angle of the main body or enclosure.
Preset	40

Certification	
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035

Audio	
Built-in Mic	Yes
Camera Audio	CVI; TVI

Port	
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port

Power	
Power Supply	12 VDC ± 30% (It is recommended to use a power adapter to supply the power for one camera)
Power Consumption	Max 10.1 W (12 VDC, IR on)

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	IP66
Anti-corrosion Level	Basic Protection

Structure	
Casing Material	Plastic
Product Dimensions	162.5 mm × 122.6 mm × 218.2 mm (6.40" × 4.83" × 8.59") (L × W × H)
Net Weight	0.66 kg (1.46 lb)
Gross Weight	1.09 kg (2.40 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

Ordering Information		
Type	Model	Description
5MP Camera	DH-HAC-PTS1500CP-E2-IL-A	2+2MP Smart Dual Light Outdoor HDCVI Dual-Lens PT Camera
	DH-HAC-PTS1500CN-E2-IL-A	2+2MP Smart Dual Light Outdoor HDCVI Dual-Lens PT Camera
Accessories (Optional)	DH-PFM800-4K	1 Channel Passive HDCVI Balun
	PFM904	Integrated Mount Tester
	PFM320-010	12V DC 1A Power Adapter
	PFM325D-1210	DC12V 1A Power Adapter
	PFM325D-1215	DC12V 1.5A Power Adapter

Accessories

Optional:



PFM800-4K  
1 Channel Passive HDCVI  
Balun



PFM904  
Integrated Mount Tester



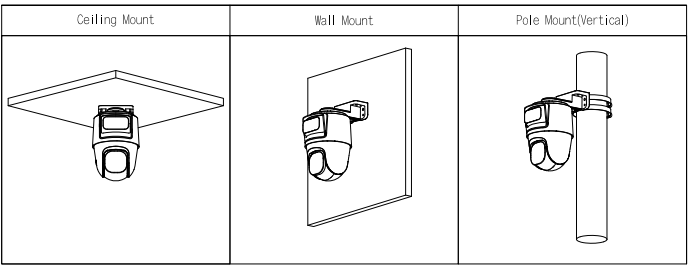
PFM320-010  
12V DC 1A Power Adapter



PFM325D-1210  
DC12V 1A Power Adapter



PFM325D-1215  
DC12V 1.5A Power  
Adapter



Dimensions (mm[inch])

