

# DH-HAC-ME1809TH-A-PV

## 4K Smart Dual Light TiOC HDCVI Bullet Camera



### System Overview

The Active Deterrence Series offers a multi-dimensional system that links surveillance videos to alarms, audio prompts and various types of information to assist with verifying potential risks. Cameras in this series actively warn off intruders with light and sound, while keeping you up to date of events in real-time through alarm-over-coax and its live view.

### Functions

#### Smart Dual Light

With its smart dual light mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in the rule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR light to significantly reduce light pollution.

#### Wide Dynamic Range

With its advanced Wide Dynamic Range technology (WDR), the camera captures highly detailed images and produces high-definition recordings in high-contrast lighting conditions, and in scenes with backlighting or shadows.

#### Broadcast-quality Audio

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.

#### Active Deterrence (Red-Blue Light)

Designed with active deterrence technology, the camera turns on a siren and a red-blue light that flashes in intervals to deter and warn off intruders. The siren has customizable settings.

\* The parameters and datasheets below can only be applied to ME1809-S2 series. Intelligent Voice Alarm function which can be used with Scheduled AI of AI XVR is only available for TiOC 2.0 camera.

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

- Max 15 fps@4K.
- 120 dB true WDR, 3D NR.
- Smart Dual Light.
- Protection Against Red-Blue Light Interference(Only 4K).
- Active deterrence with red blue light, siren and alarm out interface.
- 40 m illumination distance.
- Super Adapt.
- Built-in mic.
- 3.6 mm fixed lens (2.8 mm optional).
- CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.



#### Super Adapt

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

#### Protection Against Red-Blue Light Interference

Leveraging smart exposure technology, the camera uses the CMOS image sensor to exercise time-sharing control over image capture and the red and blue lights to eliminate interference by switching off the lights when pictures are being taken.

#### 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.

#### Protection (IP67, Wide Voltage)

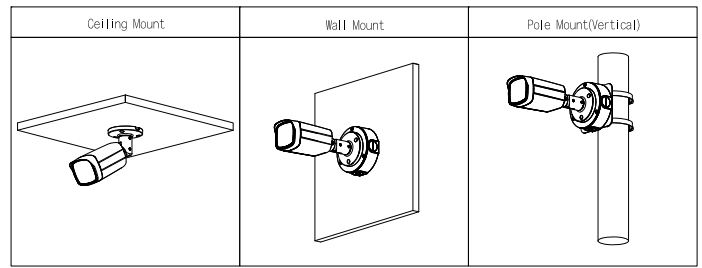
IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes.

Wide voltage: The camera has  $\pm 30\%$  input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

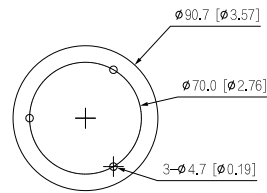
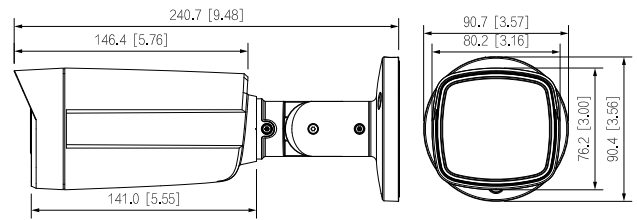
Technical Specification					
Camera					
Image Sensor	4K CMOS				
Max. Resolution	3840 (H) × 2160 (V)				
Scanning System	Progressive				
Electronic Shutter Speed	PAL: 1/3 s–1/100000 s NTSC: 1/4 s–1/100000 s				
Min. Illumination	0.001 lux@F1.0 (Color, 30 IRE) 0.0001 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio	>65 dB				
Illumination Distance	IR: 40 m (131.23 ft) Warm Light: 40 m (131.23 ft)				
Illuminator On/Off Control	Auto/Manual				
Illuminator Number	2 (Warm light);2 (IR light)				
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens					
Lens Type	Fixed-focal				
Auto Focus	No				
Lens Mount	M12				
Focal Length	2.8 mm; 3.6 mm				
Max. Aperture	F1.0				
Field of View	2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 85°; V: 45°; D: 100°				
Iris Control	Fixed				
Close Focus Distance	2.8 mm: 2.0 m (6.56 ft) 3.6 mm: 2.8 m (9.19 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	91.0 m (298.56 ft)	36.4 m (119.42 ft)	18.2 m (59.71 ft)	9.1 m (29.86 ft)
	3.6 mm	107.6 m (353.02 ft)	43.0 m (141.08 ft)	21.5 m (70.54 ft)	10.8 m (35.47 ft)
Video					
Video Frame Rate	CVI: PAL: 4k@15 fps; 5M@25 fps; 4M@25 fps; NTSC: 4k@15 fps; 5M@25 fps; 4M@30 fps; AHD: PAL: 4K@15 fps; NTSC: 4K@15 fps; TVI: PAL: 4K@15 fps; NTSC: 4K@15 fps; CVBS: PAL: 960H; NTSC: 960H				
Resolution	4K (3840 × 2160); 5M (2880 × 1620); 4M (2560 × 1440); 960H (960 × 576/960 × 480)				
Day/Night	Auto(ICR)/Color/B/W				
BLC	BLC; HLC; WDR; HLC-Pro				
WDR	120 dB				
White Balance	Auto;Area white balance				
Gain Control	Auto/Manual				
Noise Reduction	3D NR				
Illumination Mode	Smart IR&WL; WL Mode; IR Mode				
Defog	Electronic defog				
Digital Zoom	4×				
Mirror	Yes				
Privacy Masking	Off/On (8 areas, rectangle)				
Active Deterrence					
Sound Warning	Audio 1: alarm Audio2: No parking here Audio3: Private land no entry. Audio4: Warning zone keep off Audio5: Welcome Volume: high/medium/low; duration: 5 s–60 s; 110 dB				
Red/Blue Light Warning	Flash: 5 s–60 s; frequency: high/medium/low				
Certification					
Certifications	CE (EN55032:2015, EN61000-3-2:2014, EN61000-3-3:2013, EN55024:2010+A1:2015, EN55035:2017, EN50130-4:2011+A1:2014, EN62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL62368-1+CAN/CSA C22.2 No.62368-1-14)				
Port					
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port				
Audio Input	One channel built-in mic				
Alarm Output	1 channel				
Power					
Power Supply	12 VDC ± 30% (It is recommended to use a power adapter to supply the power for one camera)				
Power Consumption	Max 10.45 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	IP67				
Anti-corrosion Level	Low				
Structure					
Casing Material	Metal front cover + plastic rear barrel + metal bracket				
Product Dimensions	240.7 mm × Φ90.7 mm (9.48" × Φ3.57")				
Net Weight	0.48 kg (1.06 lb)				
Gross Weight	0.74 kg (1.63 lb)				
Installation	Wall mount; ceiling mount; vertical pole mount				

## Ordering Information

Type	Model	Description
4K Camera	DH-HAC-ME1809THP-A-PV	4K Smart Dual Light TiOC HDCVI Bullet Camera
	DH-HAC-ME1809THN-A-PV	4K Smart Dual Light TiOC HDCVI Bullet Camera
Accessories (Optional)	PFA130-E	Water-proof Junction Box
	PFA152-E	Pole Mount Bracket
	PFB203W	Wall Mount Bracket
	PFM800-4K	1-CH Passive Video Balun
	PFM321D	12VDC Power Adapter
	PFM904	Integrated Mount Tester



## Dimensions (mm [inch])



## Accessories

Optional:



PFA130-E  
Water-proof  
Junction Box



PFA152-E  
Pole Mount  
Bracket



PFB203W  
Wall Mount  
Bracket



PFM800-4K  
1-CH Passive Video  
Balun



PFM321D  
12VDC Power  
Adapter



PFM904  
Integrated Mount  
Tester