

DH-HAC-ME1809H-A-PV

4K Smart Dual Light TiOC HDCVI Eyeball 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.

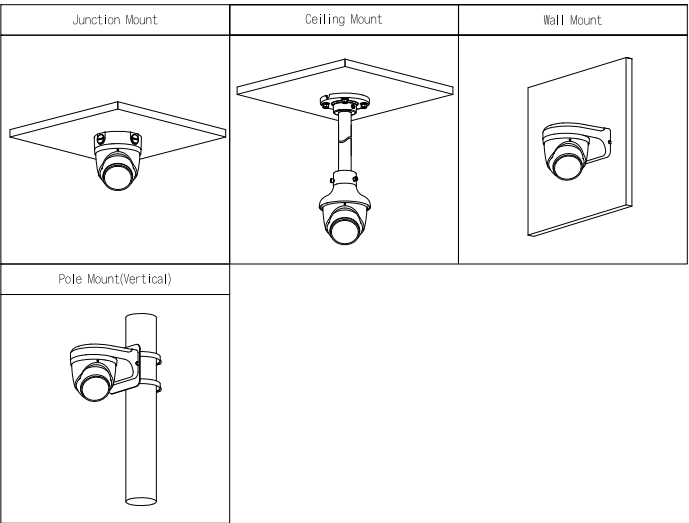
Protection (IP67, Wide Voltage)

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.

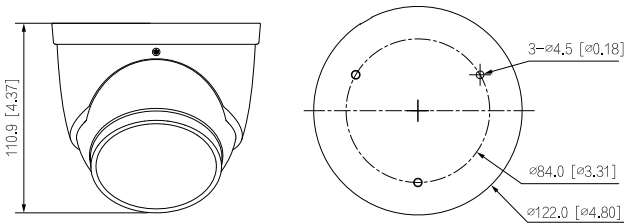
Wide voltage: The camera has $\pm 30\%$ input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

Technical Specification							White Balance		Auto;Area white balance	
Camera							Gain Control		Auto/Manual	
Image Sensor		4K CMOS					Noise Reduction		3D NR	
Max. Resolution		3840 (H) × 2160 (V)					Illumination Mode		Smart IR&WL; WL Mode; IR Mode	
Scanning System		Progressive					Defog		Electronic defog	
Electronic Shutter Speed		PAL: 1/3 s–1/100000 s NTSC: 1/4 s–1/100000 s					Digital Zoom		4×	
Min. Illumination		0.001 lux@F1.0 (Color, 30 IRE) 0.0001 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Mirror		Yes	
S/N Ratio		>65 dB					Privacy Masking		Off/On (8 areas, rectangle)	
Illumination Distance							Active Deterrence			
Illuminator On/Off Control		Auto/Manual					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	
Illuminator Number		2 (Warm light);2 (IR light)							Red/Blue Light Warning	Flash: 5 s–60 s; frequency: high/medium/low
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°								
Lens							Certification			
Lens Type		Fixed-focal					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)	
Auto Focus		No								
Lens Mount		M12								
Focal Length		2.8 mm; 3.6 mm					Port			
Max. Aperture		F1.0					Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 85°; V: 45°; D: 100°					Audio Input		One channel built-in mic	
Iris Control		Fixed					Alarm Output		1 channel	
Close Focus Distance		2.8 mm: 3.5 m (11.48 ft) 3.6 mm: 4.5 m (14.76 ft)					Power			
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Power Supply			12 VDC ± 30% (It is recommended to use a power adapter to supply the power for one camera)	
	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)	Power Consumption			Max 10.45 W (12 VDC, IR on)	
	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)	Environment				
Video							Operating Temperature		–40 °C to +60 °C (–40 °F to +140 °F)	
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					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	
Product Dimensions		Φ122.0 mm × 110.9 mm (Φ4.80" × 4.37")					Net Weight		0.72 kg (1.59 lb)	
Gross Weight		0.96 kg (2.12 lb)					Installation		Wall mount; ceiling mount; vertical pole mount	

Ordering Information		
Type	Model	Description
4K Camera	DH-HAC-ME1809HP-A-PV	4K Smart Dual Light TiOC HDCVI Eyeball Camera
	DH-HAC-ME1809HN-A-PV	4K Smart Dual Light TiOC HDCVI Eyeball Camera
Accessories (Optional)	PFA130-E	Water-proof Junction Box
	PFA152-E	Pole Mount Bracket
	PFB203W	Wall Mount Bracket
	PFA106	Adapter Plate of Mini Dome & Eyeball Camera
	PFB220C	Ceiling 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



PFA106
Adapter Plate
of Mini Dome &
Eyeball Camera



PFB220C
Ceiling Mount
Bracket



PFM800-4K
1-CH Passive Video
Balun



PFM321D
12VDC Power
Adapter



PFM904
Integrated Mount
Tester