

# DH-HAC-ME1809TQ-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 V4.001.000004.1.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.
- · Quick-to-install eyeball saves installation time.













#### 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.

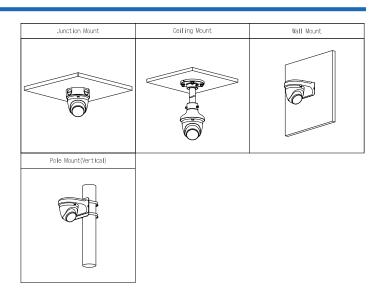
## **Easy Installation**

The camera comes with an easy-to-install eyeball and pedestal, that cuts down on installation time and cost, outranking conventional eyeballs.

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 Privacy Masking	Yes Off/On (8 areas, rectangle)
S/N Ratio		>65 dB				Active Deterrence	
Illumination Distance		IR: 40 m (131.23 ft) Warm Light: 40 m (131.23 ft)				Sound Warning	Audio 1: alarm Audio 2: No parking here Audio 3: Private land no entry. Audio 4: Warning zone keep off Audio 5: Welcome Volume: high/medium/low;
Illuminator On/Off Control		Auto/Manual					
Illuminator Number		2 (Warm light); 2 (IR light) Pan: 0°–360°					
Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°				Red/Blue Light Warning	duration: 5 s–60 s; 110 dB  Flash: 5 s–60 s; frequency: high/medium/low
Lens						Certification	Tiash. 3 3 66 3, frequency. figurification flow
Lens Type		Fixed-focal				Certification	CE (EN55032:2015, EN61000-3-2:2014,
Auto Focus		No				Certifications	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)
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
Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 85°; V: 45°; D: 100°					BNC port
Iris Control		Fixed				Audio Input	One channel built-in mic
Close Focus Distance		2.8 mm: 2.0 m (6.56 ft) 3.6 mm: 2.8 m (9.19 ft)				Alarm Output Power	1 channel
	Lens	Detect	Observe	Recognize	Identify		12 VDC $\pm$ 30% (It is recommended to use a power
DORI Distance	2.8 mm	91.0 m	36.4 m	18.2 m	9.1 m	Power Supply	adapter to supply the power for one camera)
		(298.56 ft) 107.6 m	(119.42 ft) 43.0 m	(59.71 ft) 21.5 m	(29.86 ft) 10.8 m	Power Consumption	Max 10.45 W (12 VDC, IR on)
	3.6 mm	(353.02 ft)	(141.08 ft)	(70.54 ft)	(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	
Resolution			160); 5M (288) 576/960 × 480		(2560 × 1440);	Casing Material	Dome (metal + plastic) + plastic enclosure
Day/Night		Auto(ICR)/Color/B/W				Product Dimensions	Φ109.9 mm × 100.9 mm (Φ4.33" × 3.97")
BLC		BLC; HLC; WDR; HLC-Pro				Net Weight	0.35 kg (0.77lb)
WDR		120 dB				Gross Weight	0.53 kg (1.17 lb)
						Installation	Wall mount; ceiling mount; vertical pole mount

# Active Deterrence Series | DH-HAC-ME1809TQ-A-PV

Ordering Information							
Туре	Model	Description					
AV Carrage	DH-HAC-ME1809TQP- A-PV	4K Smart Dual Light TiOC HDCVI Eyeball Camera					
4K Camera	DH-HAC-ME1809TQN- A-PV	4K Smart Dual Light TiOC HDCVI Eyeball Camera					
	PFA13G	Junction Box					
	PFA152-E	Pole Mount Bracket					
	PFB205W-E	Wall Mount Bracket					
Accessories	PFA109	Mount Adapter					
(Optional)	PFB220C	Ceiling Mount Bracket					
	PFM800-4K	1-CH Passive Video Balun					
	PFM321D	12VDC Power Adapter					
	PFM904	Integrated Mount Tester					



# Dimensions (mm [inch])

# Accessories

# Optional:



Junction



Box



PFA109 Mount Adapter



PFA152-E

Pole Mount

Bracket

PFB220C Ceiling Mount Bracket



PFB205W-E Wall Mount Bracket



PFM800-4K 1-CH Passive Video Balun



PFM321D 12VDC Power Adapter



PFM904 Integrated Mount Tester

