

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 1809-IL series. Intelligent Voice Alarm function which can be used with Scheduled AI of AI XVR is only available for TiOC 2.0 camera.
- · 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.

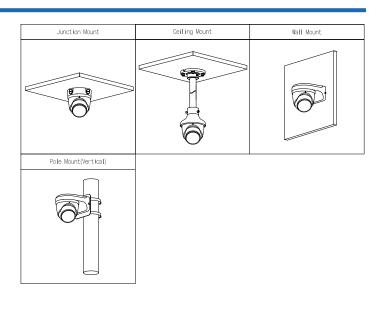
Protection (IP67, Wide Voltage)

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.

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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	4x
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°				Dod/Divo Light Worning	duration: 5 s–60 s; 110 dB
Lens		Notation. 0 =300				Red/Blue Light Warning	Flash: 5 s–60 s; frequency: high/medium/low
Lens Type		Fixed-focal				Certification	
Auto Focus		No				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)
Lens Mount		M12					
Focal Length	Focal Length		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	1 channel
	Lens	Detect	Observe	Recognize	Identify	Power	12 VDC ± 20% (It is recommended to use a newer
DORI	2.8 mm	91.0 m	36.4 m	18.2 m	9.1 m	Power Supply	12 VDC ± 30% (It is recommended to use a power adapter to supply the power for one camera)
Distance	2.0111111	(298.56 ft)	(119.42 ft)	(59.71 ft)	(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:				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
		PAL: 960H; NTSC: 960H				Structure	
Resolution					(2560 × 1440);	Casing Material	Metal
Day/Night		960H (960 × 576/960 × 480) Auto(ICR)/Color/B/W				Product Dimensions	Φ122.0 mm × 110.9 mm (Φ4.80" × 4.37")
BLC		BLC; HLC; WDR; HLC-Pro				Net Weight	0.72 kg (1.59 lb)
WDR		120 dB				Gross Weight	0.96 kg (2.12 lb)
						Installation	Wall mount; ceiling mount; vertical pole mount

Active Deterrence Series | DH-HAC-ME1809H-A-PV

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



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

