

# DH-HAC-ME1239H-A-PV

## 2MP Smart Dual Light Active Deterrence HDCVI Eyeball Camera



\* The parameters and datasheets below can only be applied to 1239-S2 series. Intelligent Voice Alarm function which can be used with Scheduled AI of AI XVR is only available for TI0C 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.

- Active deterrence with red blue light, siren and alarm out interface.
- Max. 30 fps@1080p.
- 130 dB true WDR, 3D NR.
- Smart Dual Light.
- 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.



### 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.

#### Active Deterrence

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.

#### 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.

#### 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.

#### Super Adapt

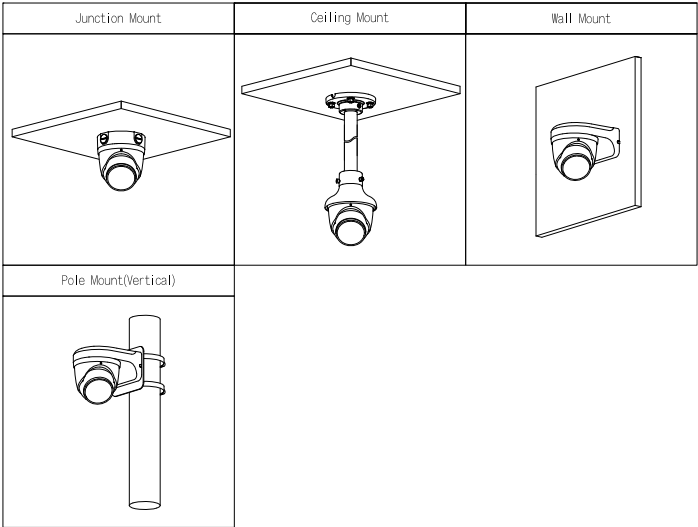
With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

#### Protection

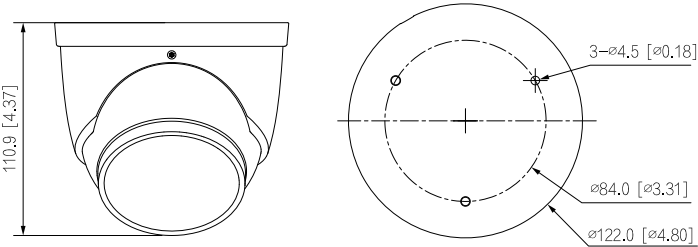
**IP67:** The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes.  
**Wide voltage:** The camera has  $\pm 30\%$  input voltage tolerance (for some power supplies) 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                   |  |
| Pixel                      |        | 2 MP                                                                                      |                   |                   |                  | Noise Reduction                                                                                                                                                                                                                                        |  | 3D NR                         |  |
| Image Sensor               |        | 2 MP CMOS                                                                                 |                   |                   |                  | Smart Illumination                                                                                                                                                                                                                                     |  | Yes                           |  |
| Max. Resolution            |        | 1920 (H) × 1080 (V)                                                                       |                   |                   |                  | Mirror                                                                                                                                                                                                                                                 |  | Off/On                        |  |
| Scanning System            |        | Progressive                                                                               |                   |                   |                  | Privacy Masking                                                                                                                                                                                                                                        |  | Off/On (8 areas, rectangle)   |  |
| Electronic Shutter Speed   |        | PAL: 1/25 s–1/100,000 s<br>NTSC: 1/30 s–1/100,000 s                                       |                   |                   |                  | Illuminator                                                                                                                                                                                                                                            |  | Smart IR&WL; WL Mode; IR Mode |  |
| Min. Illumination          |        | 0.001 lux@F1.6 (Color, 30 IRE)<br>0.0001 lux@F1.6 (B/W, 30 IRE)<br>0 lux (Illuminator on) |                   |                   |                  | Active Deterrence                                                                                                                                                                                                                                      |  |                               |  |
| S/N Ratio                  |        | >65 dB                                                                                    |                   |                   |                  | Sound Warning                                                                                                                                                                                                                                          |  |                               |  |
| Illumination Distance      |        | IR: 40 m (131.23 ft)<br>Warm light: 40 m (131.23 ft)                                      |                   |                   |                  | Audio1: alarm<br>Audio2: No parking here<br>Audio3: Private land no entry.<br>Audio4: Warning zone keep off<br>Audio5: Welcome<br>Volume: high/medium/low;<br>duration: 5 s–60 s; 110 dB                                                               |  |                               |  |
| Illuminator On/Off Control |        | Auto/Manual                                                                               |                   |                   |                  | Red/Blue Light Warning                                                                                                                                                                                                                                 |  |                               |  |
| Illuminator Number         |        | 2 (IR light)<br>2 (Warm light)                                                            |                   |                   |                  | Flash: 5 s–60 s; frequency: high/medium/low                                                                                                                                                                                                            |  |                               |  |
| Pan/Tilt/Rotation Range    |        | Pan: 0°–360°<br>Tilt: 0°–78°<br>Rotation: 0°–360°                                         |                   |                   |                  | Certification                                                                                                                                                                                                                                          |  |                               |  |
| Lens                       |        |                                                                                           |                   |                   |                  | Certifications                                                                                                                                                                                                                                         |  |                               |  |
| Lens Type                  |        | Fixed-focal                                                                               |                   |                   |                  | 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)<br>FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)<br>UL (UL62368-1+CAN/CSA C22.2 No.62368-1-14) |  |                               |  |
| Lens Mount                 |        | M12                                                                                       |                   |                   |                  | Port                                                                                                                                                                                                                                                   |  |                               |  |
| Focal Length               |        | 2.8 mm<br>3.6 mm                                                                          |                   |                   |                  | Video Output                                                                                                                                                                                                                                           |  |                               |  |
| Max. Aperture              |        | F1.6                                                                                      |                   |                   |                  | Video output choices of CVI/TVI/AHD/CVBS by one BNC port                                                                                                                                                                                               |  |                               |  |
| Field of View              |        | 2.8 mm: H: 108°; V: 58°; D: 127°<br>3.6 mm: H: 86°; V: 46°; D: 101°                       |                   |                   |                  | Audio Input                                                                                                                                                                                                                                            |  |                               |  |
| Iris Control               |        | Fixed                                                                                     |                   |                   |                  | One channel built-in MIC (-A)                                                                                                                                                                                                                          |  |                               |  |
| Close Focus Distance       |        | 2.8 mm: 0.7 m (2.29 ft)<br>3.6 mm: 1.1 m (3.61 ft)                                        |                   |                   |                  | Power                                                                                                                                                                                                                                                  |  |                               |  |
| DORI Distance              | Lens   | Detect                                                                                    | Observe           | Recognize         | Identify         | Power Supply                                                                                                                                                                                                                                           |  |                               |  |
|                            | 2.8 mm | 42.2 m (138.45 ft)                                                                        | 16.9 m (55.45 ft) | 8.4 m (27.56 ft)  | 4.2 m (13.78 ft) | 12 VDC ± 30% (It is recommended to use a power adapter to supply the power for one camera)                                                                                                                                                             |  |                               |  |
|                            | 3.6 mm | 53.7 m (176.18 ft)                                                                        | 21.5 m (70.54 ft) | 10.7 m (35.10 ft) | 5.4 m (17.72 ft) | Power Consumption                                                                                                                                                                                                                                      |  |                               |  |
|                            |        |                                                                                           |                   |                   |                  | Max 7.6 W (12 VDC, IR on)                                                                                                                                                                                                                              |  |                               |  |
| Video                      |        |                                                                                           |                   |                   |                  | 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)                                                                                                                                                                                                                   |  |                               |  |
|                            |        |                                                                                           |                   |                   |                  | Protection                                                                                                                                                                                                                                             |  |                               |  |
|                            |        |                                                                                           |                   |                   |                  | IP67                                                                                                                                                                                                                                                   |  |                               |  |
| Structure                  |        |                                                                                           |                   |                   |                  |                                                                                                                                                                                                                                                        |  |                               |  |
| Casing Material            |        |                                                                                           |                   |                   |                  | Metal                                                                                                                                                                                                                                                  |  |                               |  |
| Product Dimensions         |        |                                                                                           |                   |                   |                  | Φ122.0 mm × 110.9 mm (4.80" × Φ4.37")                                                                                                                                                                                                                  |  |                               |  |
| Packaging Dimensions       |        |                                                                                           |                   |                   |                  | 165 mm × 165 mm × 138 mm (6.50" × 6.50" × 5.43")                                                                                                                                                                                                       |  |                               |  |
| Net Weight                 |        |                                                                                           |                   |                   |                  | 0.69 kg                                                                                                                                                                                                                                                |  |                               |  |
| Gross Weight               |        |                                                                                           |                   |                   |                  | 0.95 kg                                                                                                                                                                                                                                                |  |                               |  |
| Installation               |        |                                                                                           |                   |                   |                  | Wall mount; ceiling mount; vertical pole mount                                                                                                                                                                                                         |  |                               |  |

| Ordering Information   |                      |                                             |
|------------------------|----------------------|---------------------------------------------|
| Type                   | Model                | Description                                 |
| 2MP Camera             | DH-HAC-ME1239HP-A-PV | 2MP Smart Dual Light Eyeball Camera, PAL    |
|                        | DH-HAC-ME1239HN-A-PV | 2MP Smart Dual Light Eyeball Camera, NTSC   |
| Accessories (Optional) | PFA130-E             | Junction Mount                              |
|                        | PFB203W              | Wall Mount (For use alone or with PFA152-E) |
|                        | PFA152-E             | Pole Mount Bracket (For use with PFB203W)   |
|                        | PFM321D              | 12V 1A Power Adapter                        |
|                        | PFM904               | Integrated Mount Tester                     |
|                        | PFM800-4K            | 1-CH Passive Video Balun                    |
|                        | ARA16                | Indoor Siren                                |
|                        | ARA11                | Outdoor Siren                               |



Dimensions (mm[inch])



Accessories

Optional:



PFA130-E  
Junction Mount



PFB203W  
Wall Mount (For use alone or with PFA152-E)



PFA152-E  
Pole Mount Bracket (For use with PFB203W)



PFM321D  
12V 1A Power Adapter



PFM904  
Integrated Mount Tester



PFM800-4K  
1-CH Passive Video Balun



ARA16  
Indoor Siren



ARA11  
Outdoor Siren