

DH-HAC-HDW1801CLQ-IL-A

4K Smart Dual Light HDCVI Fixed-focal Eyeball Camera



Series Overview

The Lite Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-color and starlight, providing various solutions for different scenarios.

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.

Smart Light+

Equipped with advanced LEDs and beam processing technology, the camera effectively reduces interference of stray light, ensuring concentrated illumination within the lens's field of view. This allows the camera to easily produce clear images that reveal the fine details of targets even in low light conditions.

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.

- * The parameters and datasheets below can only be applied to 1801-IL-S3 series.
- * 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.
- · Smart Dual Light.
- · 30 m illumination distance.
- · Super Adapt.
- · Built-in Mic.
- · Quick-to-install eyeball saves installation time.
- · 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.

Easy Installation

HDCVI eyeball comes with a quick-to-install pedestal, which makes it easier to install than conventional eyeballs and reduces cost on time and labor.

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.

Resolution

TVI:

PAL: 4K@15 fps; NTSC: 4K@15 fps; CVBS: PAL: 960H NTSC: 960H

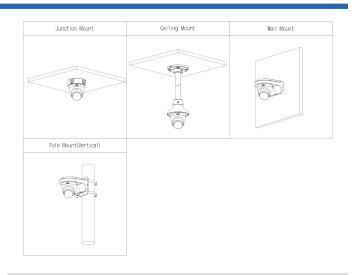
4K (3840 × 2160); 960H (960 × 576/960 × 480)

| | · | | | | | | | | |
|----------------------------|---|---|------------------------|--|----------------------|-----------------------|---|-------------|--|
| Technical Specification | | | | | | Day/Night | Auto(ICR)/Color/B/W | | |
| Camera | | | | | | BLC | BLC; HLC; WDR | | |
| Image Sensor | | 4K CMOS | | | | WDR | WDR | | |
| Max. Resolution | | 3840 (H) × 2160 (V) | | | | White Balance | Auto | | |
| Scanning System | | Progressive | | | | Gain Control | Auto | | |
| Electronic Shutter Speed | | PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s | | | | Noise Reduction | 3D NR | | |
| | | 0.01 lux@F2.0 (Color, 30 IRE) | | | | Illumination Mode | Smart IR&WL(CVI,TVI); WL Mode; IR Mode | | |
| Min. Illumination | | 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on) | | | | Mirror | Yes | | |
| S/N Ratio | | >65 dB | | | | Certification | | | |
| Illumination Distance | | IR: 30 m (98.43 ft); Warm Light: 30 m (98.43 ft) | | | | Certifications | CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55 | 035; | |
| Illuminator On/Off Control | | Auto/Manual | | | | Audio | | | |
| Illuminator Number | | 2 (Multi-core light) | | | | Built-in Mic | Yes | | |
| | | Pan: 0°–360° | | | | Camera Audio | CVI | | |
| Angle Adjustn | ment | Tilt: 0°–78° Rotation: 0°– | 360° | | | Pick-up Distance | 8 m (26.25 ft) | | |
| Lens | | | | | Port | | | | |
| Lens Type | | Fixed-focal | | | | Video Output | Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch) | | |
| Lens Mount | | M12 | | | | Power | Power | | |
| Focal Length | | 2.8 mm; 3.6 mm | | | | Power Supply | 12 VDC (±30%) | | |
| Max. Aperture | | F2.0 | | | | Power Consumption | Max 4.1 W (12 VDC, IR on) | | |
| Field of View | | 2.8 mm: H: 105.5°; V: 56.5°; D: 125.3° 3.6 mm: H: 86.8°; V: 44.6°; D: 104.5° | | | | Environment | Environment | | |
| Iris Control | | Fixed | | | | Operating Temperature | -40 °C to +60 °C (-40 °F to +140 °F) | | |
| Close Focus Distance | | 2.8 mm: 1.3 m (4.27 ft) | | | | Operating Humidity | <95% (RH), non-condensing | | |
| close rocus distance | | 3.6 mm: 2.1 r | n (6.89 ft) | | | Storage Temperature | -40 °C to +60 °C (-40 °F to +140 °F) | | |
| | Lens | Detect | Observe | Recognize | Identify | Storage Humidity | <95% (RH), non-condensir | g | |
| DORI | 2.8 mm | 88.0 m (288.71 ft) | 35.2 m (115.49 ft) | 17.6 m (57.74 ft) | 8.8 m (28.87 ft) | Protection | IP67 | | |
| | 2.6 | 113.6 m | 45.4 m | 22.7 m | 11.4 m | Anti-corrosion Level | Basic Protection | | |
| | 3.6 mm | (372.70 ft) | (148.95 ft) | (74.48 ft) | (37.40 ft) | Structure | | | |
| Distance | *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation | | | | | Casing Material | Plastic | | |
| | | | | | | Product Dimensions | Φ97.4 mm × 92.9 mm (Φ3.83" × 3.66") | | |
| | | | | | | Net Weight | 0.19 kg (0.42 lb) | | |
| | | ioning manual/project design tool. | | | | Gross Weight | 0.26 kg (0.57 lb) | | |
| Video | | | Installation | Wall mount; ceiling mount; vertical pole mount | | | | | |
| | | CVI: PAL: 4K@15 fps; NTSC: 4K@15 fps; AHD: PAL: 4K@15 fps; | | | | Ordering Information | Ordering Information | | |
| Video Frame Rate | | NTSC: 4K@15 fps; | | | | Туре | Model | Description | |

| Ordering Information | | | | | | | | |
|----------------------|-----------------------------|---|--|--|--|--|--|--|
| Туре | Model | Description | | | | | | |
| HDCVI CAMERA | DH-HAC-HDW1801CLQN- IL-A | 4K Smart Dual Light HDCVI Fixed-focal Eyeball Camera,NTSC | | | | | | |
| TIDOVI CAIVIENA | DH-HAC-HDW1801CLQP-IL-A | 4K Smart Dual Light HDCVI Fixed-focal Eyeball Camera,PAL | | | | | | |

Lite Series | DH-HAC-HDW1801CLQ-IL-A

| Туре | Model | Description |
|------------------------|---------------|----------------------------------|
| | DH-PFB220C | Ceiling Mount Bracket |
| | DH-PFA106 | Mount Adapter |
| | DH-PFB305W | Wall Mount Bracket |
| | DH-PFA151 | Corner Mount Bracket |
| | DH-PFA150 | Pole Mount Bracket |
| | DH-PFB2204W | Wall Mount Bracket |
| Accessories (Optional) | DH-PFA152-E | Pole Mount Bracket |
| | DH-PFA13G | Junction Box |
| | DH-PFM800-4K | 1 Channel Passive HDCVI Balun |
| | DH-PFM321-EN | DC12V1A power adapter |
| | DH-PFM320D-EN | DC12V2A power adapter |
| | PFM904 | Integrated Mount Tester |



Dimensions (mm[inch])

Accessories

Optional:



DH-PFA106 Mount Adapter



DH-PFA13G Junction Box



DH-PFA150 Pole Mount Bracket



DH-PFA151 Corner Mount Bracket



DH-PFA152-E Pole Mount Bracket



DH-PFB2204W Wall Mount Bracket



DH-PFB220C Ceiling Mount Bracket



DH-PFB305W Wall Mount Bracket



DH-PFM320D-EN DC12V2A power adapter



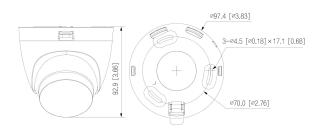
DH-PFM321-EN DC12V1A power adapter



DH-PFM800-4K 1 Channel Passive HDCVI Balun



PFM904 Integrated Mount Tester



mm [inch]