

DH-HAC-HDW1801TLM-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 V4.001.000004.1.R.220323 or later version.
- * In order to use the TVI Audio, the firmware of HDCVI camera must be upgraded to V1.001.000002.0.R.20251204 or later version.
- Max. 15 fps@4K.
- Smart Dual Light.
- 30 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.

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.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

* Audio input is available for select HDCVI camera models.

Technical Specification							
Camera							
Image Sensor							
Max. Resolution							
Scanning System							
Electronic Shutter Speed							
Min. Illumination							
S/N Ratio							
Illumination Distance							
Illuminator On/Off Control							
Illuminator Number							
Angle Adjustment							
Lens							
Lens Type							
Lens Mount							
Focal Length							
Max. Aperture							
Field of View							
Iris Control							
Close Focus Distance							
DORI Distance	Lens		Detect	Observe	Recognize		
	2.8 mm		88.0 m (288.71 ft)	35.2 m (115.49 ft)	17.6 m (57.74 ft)		
	3.6 mm		113.6 m (372.70 ft)	45.4 m (148.95 ft)	22.7 m (74.48 ft)		
*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 and commissioning manual/project design tool.							
Video							
Video Frame Rate							
Resolution							
Day/Night							
BLC							
WDR							
White Balance							
Gain Control							
Noise Reduction							
Illumination Mode							
Mirror							
Certification							
Certifications							
Audio							
Built-in Mic							
Camera Audio							
Pick-up Distance							
Port							
Video Output							
Power							
Power Supply							
Power Consumption							
Environment							
Operating Temperature							
Operating Humidity							
Storage Temperature							
Storage Humidity							
Protection							
Anti-corrosion Level							
Structure							
Casing Material							
Product Dimensions							
Net Weight							
Gross Weight							
Installation							

Ordering Information

Type	Model	Description
HDCVI CAMERA	DH-HAC-HDW1801TLMN-IL-A	4K Smart Dual Light HDCVI Fixed-focal Eyeball Camera,NTSC
	DH-HAC-HDW1801TLMP-IL-A	4K Smart Dual Light HDCVI Fixed-focal Eyeball Camera,PAL
Accessories (Optional)	DH-PFB220C	Ceiling Mount Bracket
	DH-PFA106	Mount Adapter
	DH-PFA151	Corner Mount Bracket
	DH-PFB305W	Wall Mount Bracket
	DH-PFA150	Pole Mount Bracket
	DH-PFA156	Pole Mount Bracket
	DH-PFB2204W	Wall Mount Bracket
	DH-PFA13A-E	Junction Box
	DH-PFM800-4K	1 Channel Passive HDCVI Balun
	DH-PFM321-EN	DC12V1A power adapter

Optional:



DH-PFM321-EN
DC12V1A power adapter



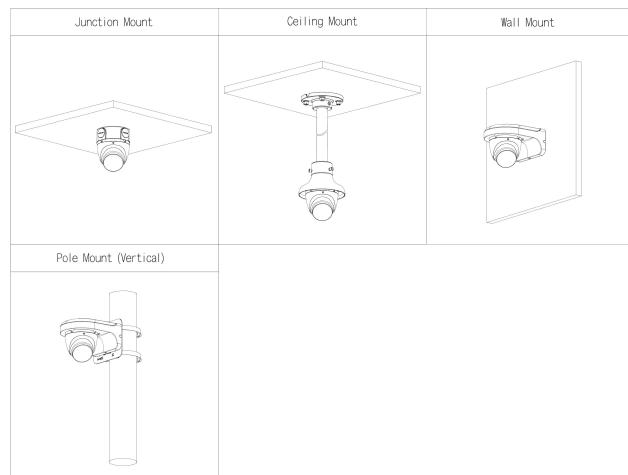
DH-PFM325D-1210EN
DC12V 1A Power Adapter



DH-PFM320D-EN
DC12V2A power adapter



PFM904
Integrated Mount Tester



Accessories

Optional:



DH-PFB220C
Ceiling Mount Bracket



DH-PFA106
Mount Adapter



DH-PFA151
Corner Mount Bracket



DH-PFB305W
Wall Mount Bracket



DH-PFA150
Pole Mount Bracket



DH-PFA156
Pole Mount Bracket



DH-PFB2204W
Wall Mount Bracket

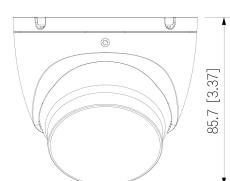


DH-PFA13A-E
Junction Box

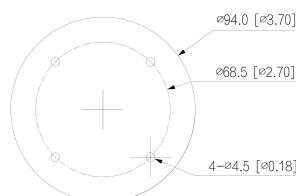


DH-PFM800-4K
1 Channel Passive HDCVI
Balun

Dimensions (mm[inch])



mm [inch]



mm [inch]