

DH-HAC-HDW1500CLQ-IL-A

5MP Smart Dual Light HDCVI Fixed-focal Quick-to-install Eyeball Camera



* The parameters and datasheets below can only be applied to 1500-IL series.

* In order to use the 5MP 16:9 and the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.000004.1.R.220323 or later version.

- Max 25 fps@5MP (16:9 video output).
- Smart Dual Light.
- 20 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.



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.

Long Distance Transmission

HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the simplicity of traditional analog surveillance systems, making it a great mechanism for protecting your valuables. HDCVI can be upgraded from the traditional analog system without replacing the existing coaxial cabling. Its plug and play design enables it to produce high-definition videos during surveillance without the hassle of configuring a network.

Multi-language OSD

The OSD offers multiple functions to meet the many requirements of a monitoring scene, such as backlight mode, day/night mode, white balance, privacy mask, and motion detection. 11 languages are available for OSD: Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

Easy Installation

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

System 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

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.

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.

Super Adapt

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

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

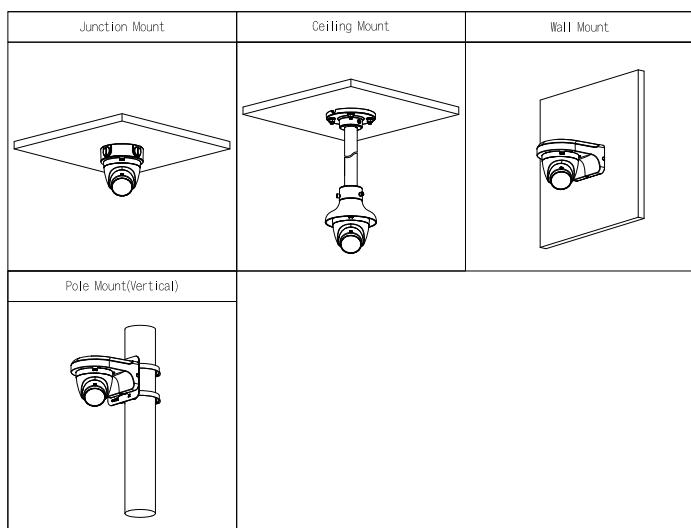
HDCVI technology supports 4 signals (video, audio*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to

Lite Series | DH-HAC-HDW1500CLQ-IL-A

Technical Specification						BLC	BLC; HLC; DWDR;														
Camera						WDR	DWDR														
Image Sensor	5 MP CMOS					White Balance	Auto;Area white balance														
Max. Resolution	2880 (H) × 1620 (V)					Gain Control	Auto/Manual														
Scanning System	Progressive					Noise Reduction	2D NR														
Electronic Shutter Speed	PAL: 1/25 s–1/100000 s NTSC: 1/30 s–1/100000 s					Illumination Mode	Smart IR&WL; WL Mode; IR Mode														
Min. Illumination	0.05 lux@F1.6 (Color, 30 IRE) 0.005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Mirror	Yes														
S/N Ratio	>65 dB					Privacy Masking	Off/On (8 areas, rectangle)														
Illumination Distance	IR: 20 m (65.62 ft) Warm Light: 20 m (65.62 ft)					Certification															
Illuminator On/Off Control	Auto/Manual					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B														
Illuminator Number	2 (Warm light);2 (IR light)					Port															
Angle Adjustment	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port														
Lens						Audio Input	One channel built-in mic														
Lens Type	Fixed-focal					Power															
Lens Mount	M12					Power Supply	12 VDC ± 30%														
Focal Length	2.8 mm; 3.6 mm					Power Consumption	Max 4.5 W (12 VDC, WLED on)														
Max. Aperture	F1.6					Environment															
Field of View	2.8 mm: H: 106°; V: 56°; D: 125° 3.6 mm: H: 92°; V: 48°; D: 109°					Operating Temperature	–40 °C to +55 °C (–40 °F to +131 °F)														
Iris Control	Fixed					Operating Humidity	<95% (RH), non-condensing														
Close Focus Distance	2.8 mm: 0.8 m (2.62 ft) 3.6 mm: 1.3 m (4.27 ft)					Storage Temperature	–40 °C to +55 °C (–40 °F to +131 °F)														
DORI Distance	<table border="1"> <thead> <tr> <th>Lens</th> <th>Detect</th> <th>Observe</th> <th>Recognize</th> <th>Identify</th> </tr> </thead> <tbody> <tr> <td>2.8 mm</td> <td>56 m (183.73 ft)</td> <td>22.4 m (73.49 ft)</td> <td>11.2 m (36.75 ft)</td> <td>5.6 m (18.37 ft)</td> </tr> <tr> <td>3.6 mm</td> <td>76 m (249.34 ft)</td> <td>30.4 m (99.74 ft)</td> <td>15.2 m (49.87 ft)</td> <td>7.6 m (24.93 ft)</td> </tr> </tbody> </table> <p>*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.</p>	Lens	Detect	Observe	Recognize	Identify	2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)	3.6 mm	76 m (249.34 ft)	30.4 m (99.74 ft)	15.2 m (49.87 ft)	7.6 m (24.93 ft)				Storage Humidity	<95% (RH), non-condensing
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Video						Protection	IP67														
Video Frame Rate	<p>CVI: PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps; NTSC: 5M@25 fps; 4M@30 fps; 1080p@30 fps</p> <p>AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps</p> <p>TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps</p> <p>CVBS: PAL: 960H; NTSC: 960H</p>					Structure															
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)					Casing Material	Plastic														
Day/Night	Auto(ICR)/Color/B/W					Product Dimensions	φ97.1 mm × 93.8 mm (φ3.82" × 3.69")														
						Net Weight	0.19 kg (0.42 lb)														
						Gross Weight	0.3 kg (0.66 lb)														
						Installation	Wall mount; ceiling mount; vertical pole mount														

Ordering Information

Type	Model	Description
5M Camera	DH-HAC-HDW1500CLQP-IL-A	5MP Smart Dual Light HDCVI Fixed-focal Quick-to-install Eyeball Camera, PAL
	DH-HAC-HDW1500CLQN-IL-A	5MP Smart Dual Light HDCVI Fixed-focal Quick-to-install Eyeball Camera, NTSC
Accessories (Optional)	PFA13G	Junction Box
	PFB205W-E	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFA109	Mount Adapter
	PFB220C	Ceiling Mount Bracket
	PFM800-4K	1-CH Passive Video Balun
	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester



Dimensions (mm [inch])

Accessories

Optional:



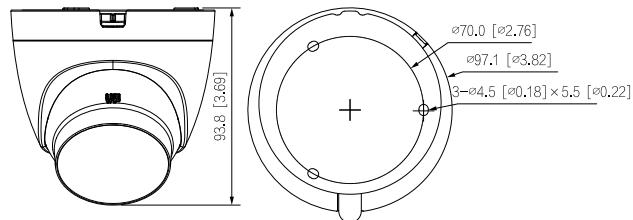
PFA13G
Junction
Box



PFB205W-E
Wall Mount
Bracket



PFA152-E
Pole Mount
Bracket



PFA109
Mount Adapter



PFB220C
Ceiling Mount
Bracket



PFM800-4K
1 Channel Passive
HDCVI Balun



PFM321D
12V 1A Power
Adapter



PFM904
Integrated Mount
Tester