

# DH-HAC-HDW1500RHMP-IL-A

5MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera



## 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.

\* 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 V4.001.0000004.1.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.
- 3.6 mm fixed lens (2.8 mm optional).
- CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.



### 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.

### 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

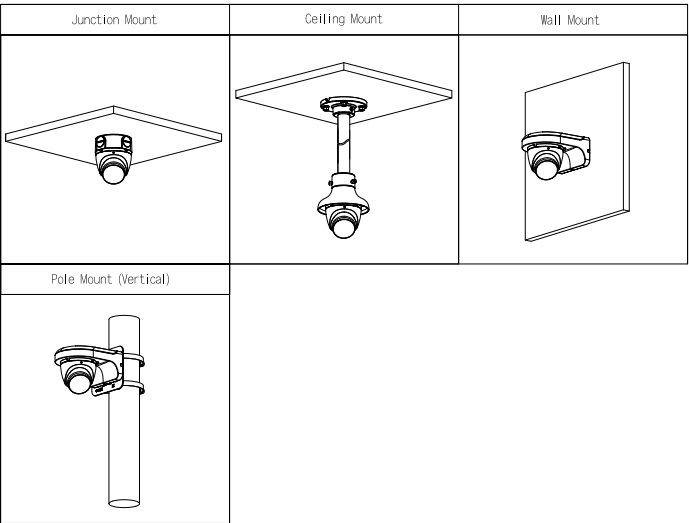
HDCVI technology inherits the simplicity of traditional analog surveillance systems, making it a great mechanism for protecting your valuables. HDCVI can be upgraded from the traditional analog system without replacing the existing coaxial cabling. Its plug and play design enables it to produce high-definition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

### Multi-language OSD

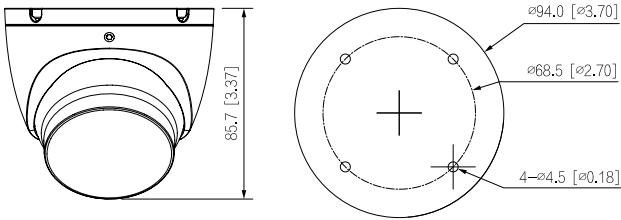
The OSD offers multiple functions to meet the many requirements of a monitoring scene, such as backlight mode, day/night mode, white balance, privacy mask, and motion detection. 11 languages are available for OSD: Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian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

Technical Specification						Gain Control		Auto/Manual					
Camera								Noise Reduction		2D NR			
Image Sensor		5 MP CMOS						Illumination Mode		Smart IR&WL; WL Mode; IR Mode			
Max. Resolution		2880 (H) × 1620 (V)						Mirror		Yes			
Scanning System		Progressive						Privacy Masking		Off/On (8 areas, rectangle)			
Electronic Shutter Speed		PAL: 1/25 s–1/100000 s NTSC: 1/30 s–1/100000 s						Certification					
Min. Illumination		0.05 lux@F1.6 (Color, 30 IRE) 0.005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)						Certifications		CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14			
S/N Ratio		>65 dB						Port					
Illumination Distance		IR: 20 m (65.62 ft) Warm Light: 20 m (65.62 ft)						Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port			
Illuminator On/Off Control		Auto/Manual						Audio Input		One channel built-in mic			
Illuminator Number		1 (Warm light);1 (IR light)						Power					
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°						Power Supply		12 VDC ± 30%			
								Power Consumption		Max 3.1 W (12 VDC, WLED on)			
Lens								Environment					
Lens Type		Fixed-focal						Operating Temperature		–40 °C to +60 °C (–40 °F to +140 °F)			
Lens Mount		M12						Operating Humidity		<95% (RH), non-condensing			
Focal Length		2.8 mm;3.6 mm						Storage Temperature		–40 °C to +60 °C (–40 °F to +140 °F)			
Max. Aperture		F1.6						Storage Humidity		<95% (RH), non-condensing			
Field of View		2.8 mm: H: 106°; V: 56°; D: 125° 3.6 mm: H: 92°; V: 48°; D: 109°						Protection		IP67			
Iris Control		Fixed						Structure					
Close Focus Distance		2.8 mm: 0.8 m (2.62 ft) 3.6 mm: 1.3 m (4.27 ft)						Casing Material		Metal			
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Product Dimensions						φ94.0 mm × 85.7 mm (φ3.70" × 3.37")	
	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)	Net Weight						0.31 kg (0.68 lb)	
	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)	Gross Weight						0.43 kg (0.95 lb)	
Video								Installation				Wall mount; ceiling mount; vertical pole mount	
Video Frame Rate		CVI: PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps; NTSC: 5M@25 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H											
Resolution		5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)											
Day/Night		Auto(ICR)/Color/B/W											
BLC		BLC; HLC; DWDR											
WDR		DWDR											
White Balance		Auto;Area white balance											

Ordering Information		
Type	Model	Description
5M Camera	DH-HAC-HDW1500TLM-IL-A	5MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera, PAL
	DH-HAC-HDW1500TLMN-IL-A	5MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera, NTSC
Accessories (Optional)	PFA13A-E	Junction Box
	PFB205W-E	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFA106	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:




PFA13A-E  
Junction  
Box




PFB205W-E  
Wall Mount  
Bracket




PFA152-E  
Pole Mount  
Bracket




PFA106  
Mount Adapter




PFB220C  
Ceiling Mount  
Bracket



PFM800-4K  
1 Channel Passive  
HDCVI Balun



PFM321D  
12V 1A Power Adapter



PFM904  
Integrated Mount  
Tester