

DH-HAC-HDW1500TQ-A

5MP IR 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

Starlight

With its large image sensor and large aperture, the camera delivers high performance and quality, even in low-light conditions. The starlight feature allows the camera to capture highly detailed images in accurate color, recognizing targets even at night or in scenes with limited light.

Built-in Mic

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 IR Illumination

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

- * The parameters and datasheets below can only be applied to 1500-S3 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)
- · Quick-to-install eyeball saves installation time.
- · Starlight, 3D NR
- · 40 m illumination distance.
- · Built-in Mic.
- · 3.6 mm fixed lens (2.8 mm, 6 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.















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.

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.

NTSC: 4M@30 fps

NTSC: 5M 16:9@20 fps
Image Sensor 5 MP CMOS NTSC: 960H Max. Resolution 2880 (H) × 1620 (V) 5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960 H (960 × 576/960 × 480); TVI 5M 16:9 (× 1665) Scanning System Progressive Day/Night Auto(ICR)/Color/B/W Electronic Shutter Speed 0.01 lux@F1.6 (Color, 30 IRE) BLC BLC; HLC; WDR Min. Illumination 0.001 lux@F1.6 (B/W, 30 IRE) WDR DWDR VDR WDR White Balance Auto;Area white balance S/N Ratio IR: 40 m (131.23 ft) Noise Reduction 3D NR
Scanning System Progressive Pogressive PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s NTSC: 1/30 s-1/100,000 s NTSC: 1/30 s-1/100,000 s Min. Illumination O.01 lux@F1.6 (Color, 30 IRE) O lux (Illuminator on) S/N Ratio S/S dB Illumination Distance IR: 40 m (131.23 ft) Resolution Day/Night Auto(ICR)/Color/B/W BLC BLC; HLC; WDR WDR DWDR White Balance Auto;Area white balance Gain Control Auto/Manual Noise Reduction JD NR
Scanning System Progressive × 1665) Electronic Shutter Speed PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s NTSC: 1/30 s-1/100,000 s Min. Illumination 0.001 lux@F1.6 (Color, 30 IRE) 0.001 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on) S/N Ratio >65 dB Illumination Distance IR: 40 m (131.23 ft) Illuminator On/Off Control Auto/Manual × 1665) Day/Night Auto(ICR)/Color/B/W BLC BLC; HLC; WDR WDR DWDR White Balance Auto; Area white balance Gain Control Auto/Manual Noise Reduction 3D NR
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Illumination Distance IR: 40 m (131.23 ft) Noise Reduction Auto/Manual Noise Reduction 3D NR
Illuminator On/Off Control Auto/Manual
Illumination Mode Smart IR
Illuminator Number 1 (IR light)
Pan: 0°–360° Yes
Angle Adjustment Tilt: 0°–78° Privacy Masking Off/On (8 areas, rectangle) Rotation: 0°–360°
Certification
Lens Type Fixed-focal Certifications CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;
Lens Mount M12 Audio
Focal Length 2.8 mm; 3.6 mm; 6 mm Built-in Mic Yes
Max. Aperture F1.6 Camera Audio CVI; TVI
2.8 mm: H: 113.3°; V: 62.1°; D: 134.3° Pick-up Distance 8 m (26.25 ft) Field of View 3.6 mm: H: 90.1°; V: 47.8°; D: 109.3°
Field of View 3.6 mm: H: 90.1°; V: 47.8°; D: 109.3° 6 mm: H: 53.9°; V: 30.7°; D: 62.1° Port
Iris Control Fixed Video Output Video Output Video output choices of CVI/TVI/AHD/CVBS by one port (DIP Switch)
2.8 mm: 0.8 m (2.62 ft) Close Focus Distance 3.6 mm: 1.3 m (4.27 ft) Power
6 mm: 2.6 m (8.53 ft) Power Supply 12 VDC (±30%)
Lens Detect Observe Recognize Identify Power Consumption Max 3.2 W (12 VDC, IR on)
2.8 mm
3.6 mm 30.8 m 15.4 m 7.7 m Operating Temperature -40 °C to +60 °C (-40 °F to +140 °F)
(252.62 ft) (101.05 ft) (50.52 ft) (25.26 ft) Operating Humidity <95% (RH), non-condensing
DORI Distance 118 m 47.2 m 23.6 m 11.8 m (387.14 ft) (154.86 ft) (77.43 ft) (38.71 ft) Storage Temperature -40 °C to +60 °C (-40 °F to +140 °F)
*DORI (Detect, Observe, Recognize, Identify) is a standard system Storage Humidity <95% (RH), non-condensing
(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 Anti-corrosion Level Basic Protection
distances. For intelligent function distances, refer to installation and commissioning manual/project design tool. Structure
Video Casing Material Dome (metal + plastic) + plastic enclosure
CVI: Product Dimensions Φ 109.9 mm × 103.1 mm (Φ 4.33" × 4.06")
PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps; 1080p@25 fps Net Weight 0.32 kg (0.71 lb)
NTSC: 5M@ 25 fps; 5M@ 20 fps; 5M@ 10 fps; 4M@ 30 Gross Weight 0.49 kg (1.08 lb) Video Frame Rate fps; 1080p@ 30 fps
AHD: Installation Wall mount; ceiling mount; vertical pole mount PAL: 4M@25 fps

Ordering Information				
Туре	Model	Description		
HDCVI CAMERA	DH-HAC-HDW1500TQN-A	5MP IR HDCVI Fixed-focal Eyeball Camera,NTSC		
	DH-HAC-HDW1500TQP-A	5MP IR HDCVI Fixed-focal Eyeball Camera,PAL		
Accessories (Optional)	DH-PFB220C	Ceiling Mount Bracket		
	DH-PFA109	Mount Adapter		
	DH-PFA151	Corner Mount Bracket		
	DH-PFB305W	Wall Mount Bracket		
	DH-PFA150	Pole Mount Bracket		
	DH-PFB2203W	Wall Mount Bracket		
	DH-PFA156	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		

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Optional:



DH-PFA109 Mount Adapter



Corner Mount Bracket



DH-PFB220C Ceiling Mount Bracket



DH-PFA156

DH-PFA13G

Junction Box

DH-PFB305W Wall Mount Bracket





DH-PFM320D-EN DC12V2A power adapter

DH-PFA150

Pole Mount Bracket

DH-PFB2203W

Wall Mount Bracket



DH-PFM321-EN DC12V1A power adapter

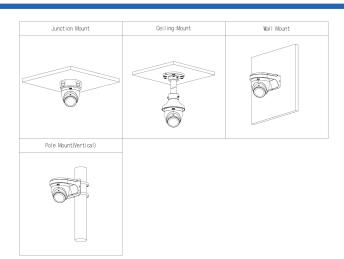


DH-PFM800-4K 1 Channel Passive HDCVI Balun



PFM904 Integrated Mount Tester

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Dimensions (mm[inch])

mm [inch]

