

DH-HAC-HDW1500TLQ-A

5MP Starlight HDCVI Quick-to-install IR Eyeball Camera



* The parameters and datasheets below can only be applied to 1500-S2 series.
* In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000001.0.R.200908 or later version.

- Max 25 fps@5MP (16:9 video output)
- CVI/CVBS/AHD/TVI switchable
- Quick-to-install eyeball saves installation time
- 3.6 mm fixed lens (2.8 mm optional)
- Built-in mic
- Max. IR length 30 m, Smart IR
- IP67, 12 VDC



System Overview

Experience 5MP full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 5MP HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance makes the camera an ideal choice for SMB solutions.

Functions

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the XVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras.

Easy Installation

HDCVI Quick-to-install eyeball adopts quick-to-install pedestal, which can achieve easier installation than conventional eyeball. Quick-to-install camera reduces time and labor costs.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700 m for 5MP HD video via coaxial cable, and up to 300 m via UTP cable.*

*Actual results verified by real-scene testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Smart IR

The camera is designed with IR LED illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

Multi-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu. This feature makes the camera to be compatible with most end users' existing HD/SD DVRs.

Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

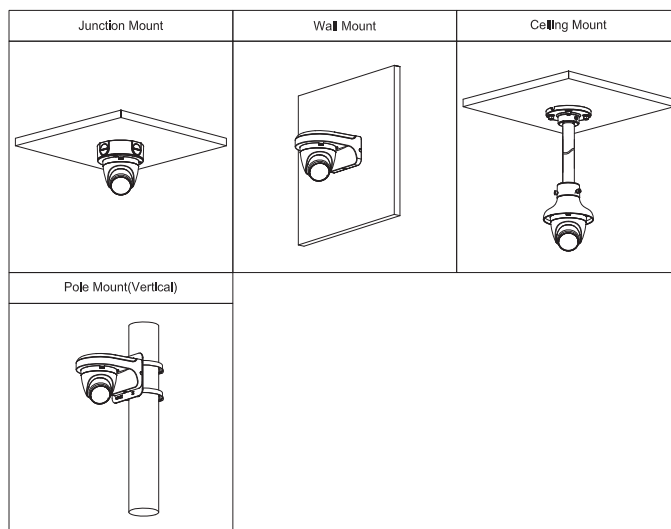
Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting ±30% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

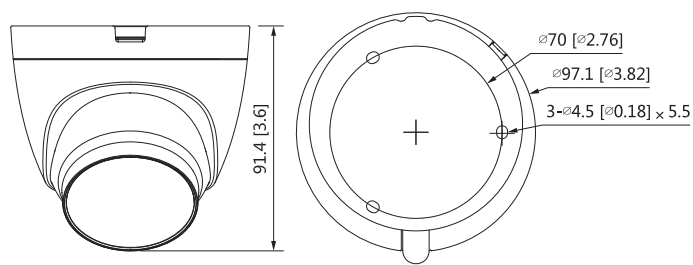
Technical Specification						WDR	DWDR
Camera						White Balance	Auto; manual
Image Sensor		1/2.7 inch CMOS				Gain Control	Auto; manual
Max. Resolution		2880 (H) × 1620 (V)				Noise Reduction	2D NR
Pixel		5MP				Smart IR	Yes
Scanning System		Progressive				Mirror	Off/On
Electronic Shutter Speed		PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s				Privacy Masking	Off/On (8 area, rectangle)
S/N Ratio		>65 dB				Certifications	
Min. Illumination		0.01 Lux/F1.6, 30IRE, 0 Lux IR on				Certifications	CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017, EN50130-4:2011+A1:2014, EN 62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Illumination Distance		30 m (98.4 ft)				Port	
Illuminator On/Off Control		Auto; manual				Audio Interface	One channel built-in mic
Illuminator Number		1				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Power	
Lens						Power Supply	12V ±30% DC
Lens Type		Fixed-focal				Power Consumption	Max 3.2W (12V DC, IR on)
Mount Type		M12				Environment	
Focal Length		2.8 mm; 3.6 mm				Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Max. Aperture		F1.6				Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Field of View		2.8 mm: 132° × 111° × 58° (diagonal × horizontal × vertical) 3.6 mm: 109° × 92° × 48° (diagonal × horizontal × vertical)				Protection Grade	IP67
Iris Type		Fixed iris				Structure	
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.2 ft)				Casing	Inner core: metal + plastic Cover: plastic Pedestal: plastic
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Camera Dimensions	φ97.1 mm × 91.4 mm (φ3.82" × 3.6")
	2.8 mm	63.6 m (208.7 ft)	25.4 m (83.3 ft)	12.7 m (41.7 ft)	6.4 m (21.0ft)	Net Weight	0.21 kg (0.46 lb)
	3.6 mm	80 m (262.5 ft)	32 m (105.0 ft)	16 m (52.5 ft)	8 m (26.2 ft)	Gross Weight	0.28 kg (0.62 lb)
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); 960 H (960 × 576/960 × 480)					
Day/Night		Auto switch by ICR					
BLC		BLC/HLC/DWDR					

Ordering Information

Type	Part Number	Description
5MP Camera	DH-HAC-HDW1500TLQP-A 2.8mm	5MP HDCVI IR Eyeball Camera
	DH-HAC-HDW1500TLQN-A 2.8mm	
	DH-HAC-HDW1500TLQP-A 3.6mm	
	DH-HAC-HDW1500TLQN-A 3.6mm	
Accessories	PFA13G	Junction Box
	PFB205W	Wall Mount Bracket (For use alone or with PFA152-E)
	PFA152-E	Pole Mount Bracket (For use with PFB205W)
	PFA130-E	IP66 Junction Box
	PFM800-4K	Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])



Accessories

Optional:



PFA13G
Junction Box



PFB205W
Wall Mount Bracket
(For use alone or with
PFA152-E)



PFA152-E
Pole Mount Bracket
(For use with PFB204W)



PFA130-E
IP66 Junction Box



PFM800-4K
Passive HDCVI Balun



PFM321D
12V 1A Power Adapter



PFM904
Integrated Mount Tester