

DH-HAC-HDW1500TMQ(-A)

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



* The parameters and datasheets below can only be applied to 1500-S2 series.

- 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, 6 mm optional)
- Built-in mic(-A)
- Max. IR length 60 m, Smart IR
- IP67, 12V DC



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 make 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 through coaxial cable, and up to 300 m through 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 comes 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 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						BLC		BLC/HLC/DWDR	
Camera						WDR		DWDR	
Image Sensor		1/2.7 inch CMOS				White Balance		Auto; manual	
Max. Resolution		2880 (H) × 1620 (V)				Gain Control		Auto; manual	
Pixel		5MP				Noise Reduction		2D NR	
Scanning System		Progressive				Smart IR		Yes	
Electronic Shutter Speed		PAL: 1/25 s–1/100,000 s NTSC: 1/30 s–1/100,000 s				Mirror		Off/On	
S/N Ratio		> 65 dB				Privacy Masking		Off/On (8 areas, rectangle)	
Min. Illumination		0.005 Lux/F1.6, 30IRE, 0 Lux IR on				Certifications			
Illumination Distance		60 m (196.9 ft)				Certifications			
Illuminator On/Off Control		Auto; manual				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)			
Illuminator Number		2				Port			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Audio Interface		One channel built-in mic (-A)	
Lens						Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Lens Type		Fixed-focal				Power			
Mount Type		M12				Power Supply		12V ±30% DC	
Focal Length		2.8 mm; 3.6 mm; 6 mm				Power Consumption		Max 5.2W (12V DC, IR on)	
Max. Aperture		F1.6				Environment			
Field of View		2.8 mm: 132° × 111° × 58° (diagonal × horizontal × vertical) 3.6 mm: 109° × 92° × 48° (diagonal × horizontal × vertical) 6 mm: 65° × 57° × 30° (diagonal × horizontal × vertical)				Operating Temperature		–40°C to +60°C (–40°F to 140°F); < 95% (non-condensation)	
Iris Type		Fixed iris				Storage Temperature		–40°C to +60°C (–40°F to 140°F); < 95% (non-condensation)	
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.2 ft) 6 mm: 3.1 m (10.2 ft)				Protection Grade		IP67	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Structure			
	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)	Casing		Metal dome+metal cover+plastic decorative ring	
	3.6 mm	80 m (262.5 ft)	32 m (105.0 ft)	16 m (52.5 ft)	8 m (26.2 ft)	Camera Dimensions		φ121.9 mm × 99.1 mm (φ4.8" × 3.9")	
	6 mm	120 m (393.7 ft)	48 m (157.5 ft)	24m (78.7 ft)	12m (39.4 ft)	Net Weight		0.4 kg (0.88 lb)	
Video						Gross Weight		0.6 kg (1.32 lb)	
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							

Ordering Information

Type	Part Number	Description
5MP Camera	DH-HAC-HDW1500TMQP 2.8 mm	5MP HDCVI IR Eyeball Camera
	DH-HAC-HDW1500TMQN 2.8 mm	
	DH-HAC-HDW1500TMQP 3.6 mm	
	DH-HAC-HDW1500TMQN 3.6 mm	
	DH-HAC-HDW1500TMQP 6 mm	
	DH-HAC-HDW1500TMQN 6 mm	
	DH-HAC-HDW1500TMQP-A 2.8 mm	
	DH-HAC-HDW1500TMQN-A 2.8 mm	
	DH-HAC-HDW1500TMQP-A 3.6 mm	
	DH-HAC-HDW1500TMQN-A 3.6 mm	
	DH-HAC-HDW1500TMQP-A 6 mm	
	DH-HAC-HDW1500TMQN-A 6 mm	
Accessories	PFA137	Junction Box
	PFA130-E	P66 Junction Box
	PFB205W	Wall Mount Bracket (For use alone or with PFA152-E)
	PFA152-E	Pole Mount Bracket (For use with PFB205W)
	PFM8000-4K	Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester

Accessories

Optional:



PFA137
Junction Box



PFA130-E
P66 Junction Box



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



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



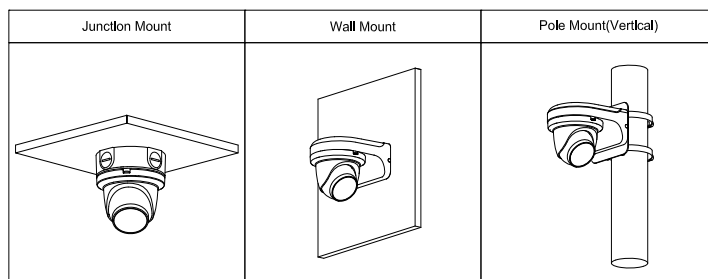
PFM800-4K
Passive HDCVI Balun



PFM321D
12V 1A Power Adapter



PFM904
Integrated Mount Tester



Dimensions (mm[inch])

