

DH-HAC-HDW1500TMQ-Z(-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
- 2.7 mm-12 mm motorized lens
- 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 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 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 -30 °C to +60 °C (-22 °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					
Camera					
Image Sensor		1/2.7 inch CMOS			
Max. Resolution		2880 (H) × 1620 (V)			
Pixel		5MP			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s–1/100,000 s NTSC: 1/30 s–1/100,000 s			
S/N Ratio		> 65 dB			
Min. Illumination		0.005 Lux/F1.6, 30IRE, 0 Lux IR on			
Illumination Distance		60 m (196.9 ft)			
Illuminator On/Off Control		Auto; manual			
Illuminator Number		2			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Auto Focus		N/A			
Mount Type		φ14			
Focal Length		2.7 mm–12 mm			
Max. Aperture		F1.6			
Field of View		Diagonal: 39°–130° Horizontal: 34°–107° Vertical: 19°–55°			
Iris Type		Fixed iris			
Close Focus Distance		0.5 m (1.64 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.7 mm	69 m (226.37 ft)	27.6 m (90.55 ft)	13.8 m (45.27 ft)	6.9 m (22.63 ft)
	12 mm	191.6 m (628.6 ft)	76.64 m (251.44 ft)	38.32 m (125.72 ft)	19.16 m (62.86 ft)
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 switch by ICR			
BLC		BLC/HLC/DWDR			
WDR		DWDR			

White Balance		Auto; manual
Gain Control		Auto; manual
Noise Reduction		2D NR
Smart IR		Yes
Mirror		Off/On
Privacy Masking		Off/On (8 areas, rectangle)
Certifications		
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)
Port		
Audio Output		One channel built-in mic (-A)
Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Power		
Power Supply		DC 12V ±30%
Power Consumption		Max 6.6W (12V DC, IR on)
Environment		
Operating Temperature		–30°C to +60°C (–22°F to +140°F); < 95% (non-condensation)
Storage Temperature		–30°C to +60°C (–22°F to +140°F); < 95% (non-condensation)
Protection Grade		IP67
Structure		
Casing		Metal dome+metal cover+plastic decorative ring
Camera Dimensions		φ135 mm × 109 mm (φ5.31" × 4.28")
Net Weight		0.52 kg (1.15 lb)
Gross Weight		0.62 kg (1.37 lb)

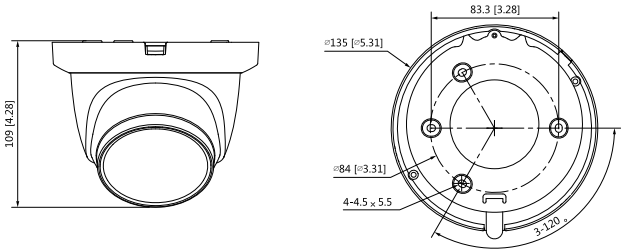
Ordering Information		
Type	Part Number	Description
5MP Starlight Camera	DH-HAC-HDW1500TMQP-Z 2.7 mm–12 mm	5MP Starlight HDCVI Quick-to-install IR Eyeball Camera
	DH-HAC-HDW1500TMQN-Z 2.7 mm–12 mm	
	DH-HAC-HDW1500TMQP-Z-A 2.7 mm–12 mm	
	DH-HAC-HDW1500TMQN-Z-A 2.7 mm–12 mm	

Accessories	PFA13F	Junction Box
	PFB211W	Wall Mount Bracket (Use alone or with PFA152-E)
	PFA152-E	Pole Mount Bracket (Use with PFB211W)
	PFM800-4K	Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFM320D-015	12V 1.5A Power Adapter
	PFM820 (Only 1080p and below are available)	UTC Controller
	PFM904	Integrated Mount Tester

Installation

Junction Mount	Wall Mount	Pole Mount(Vertical)

Dimensions (mm [inch])



Accessories

Optional:



PFA13F
Junction Box



PFB211W
Wall Mount Bracket
(For use alone or with
PFA152-E)



PFA152-E
Pole Mount Bracket
(For use with PFB211W)



PFM800-4K
Passive HDCVI Balun



PFM321D
12V 1A Power Adapter



PFM320D-015
12V 1.5A Power Adapter



PFM820
(Only 1080P and below
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Ceiling Mount Bracket
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PFM904
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