

DH-HAC-HDW1500TMQ-Z(-A) 5MP Starlight HDCVI Quick-to-install IR Eyeball Camera

@hua

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

- · Max 25 fps@5MP (16:9 video output)
- \cdot CVI/CVBS/AHD/TVI switchable
- \cdot Quick-to-install eyeball saves installation time
- \cdot 2.7-12 mm motorized lens
- · Built-in mic(-A)
- · Max. IR length 60 m, Smart IR
- · IP67, DC12V



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 -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting $\pm 30\%$ 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.

Lite Series | DH-HAC-HDW1500TMQ-Z(-A)

Technical Specification

Camera

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-1/100000 s NTSC: 1/30 s-1/100000 s				
S/N Ratio		> 65 dB				
Min. Illumination		0.01 Lux/F1.6, 30IRE, 0 Lux IR on				
Illumination Distance		60 m (196.9 ft)				
Illuminator On/Off Control		Auto; manua	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		ф14				
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		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)	

White Balance	Auto; manual	
Gain Control	Auto; manual	
Noise Reduction	2D NR	
Smart IR	Yes	
Mirror	Off/On	
Privacy Masking	Off/On (8 area, 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)	

Video

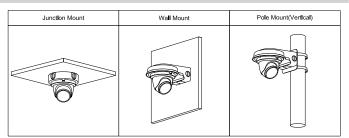
Frame Rate	CVI: PAL: 5M@25 fps; 4M@25 fps; 1080P@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080P@30 fps AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto switch by ICR
BLC	BLC/HLC/DWDR
WDR	DWDR

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

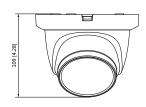
Lite Series | DH-HAC-HDW1500TMQ-Z(-A)

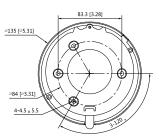
Accessories	PFA13F	Junction Box
	PFB211W	Wall Mount Bracket (For use alone or with PFA152-E)
	PFA152-E	Pole Mount Bracket (For use with PFB211W)
	PFM800-4K	Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFM320D-015	12V 1.5A Power Adapter
	PFM820 (Only 1080p and below are available)	UTC Controller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

Installation



Dimensions (mm [inch])





Accessories

Optional:







PFA13F Junction Box



PFM800-4K Passive HDCVI Balun



PFM820 (Only 1080P and below are available) Ceiling Mount Bracket UTC Controller





PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester

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



PFM320D-015 12V 1.5A Power Adapter