

DH-HAC-HDW1500TRQ(-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)
- · Quick-to-install eyeball saves installation time
- · Built-in mic (-A)
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (2.8 mm optional)
- · Max. IR length 25 m, Smart IR
- · IP50, 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 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 that ensures 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

With working temperature range of -40° C to $+50^{\circ}$ C (-40° F to 122° 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-HDW1500TRQ(-A)

Technical Specification						Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080P (1920 × 1080); 960 H (960 × 576/960 × 480)
Camera						Day/Night	Auto switch by ICR
Image Sensor		1/2.7 inch CMOS				BLC	BLC/HLC/DWDR
Max. Resolution		2880 (H) × 1620 (V)				WDR	DWDR
Pixel		5MP				White Balance	Auto; manual
Scanning Syste	em	Progressive				Gain Control	Auto; manual
Electronic Shu	utter Speed	PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				Noise Reduction	2D NR
S/N Ratio		> 65 dB				Smart IR	Yes
Min. Illuminat	tion	0.005 Lux/F1.6 30IRE, 0 Lux IR on				Mirror	Off/On
Illumination D	istance	25 m (82.0 ft)				Privacy Masking	Off/On (8 areas, rectangle)
Illuminator Or	n/Off Control	Auto; manual				Certifications	
Illuminator Nu		2 Pan: 0°-360° Tilt: 0°-78° Rotation: 0°-360°				Certifications	CE (EN 55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55024:2010+A1:2015, EN 55035:2017, EN 50130-4:2011+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)
Lens					Port	Port	
Lens Type		Fixed-focal				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Mount Type		M12				Audio Interface	One channel built-in mic (-A)
Focal Length		2.8 mm; 3.6 mm				Power	
Max. Aperture		F1.6				Power Supply	12V ±30% DC
Field of View		2.8 mm: 132° × 111° × 58° (diagonal × horizontal × vertical) 3.6 mm: 109° × 92° × 48° (diagonal × horizontal × vertical)				Power Consumption	Max 3.0W (12V DC, IR on)
						Environment	
Iris Type		Fixed iris				Operating Temperature	-40°C to +50°C (–40°F to 122°F); < 95% (noncondensation)
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.2 ft)				Storage Temperature	-40°C to +50°C (–40°F to 122°F); < 95% (noncondensation)
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Protection Grade	IP50
	2.8 mm	63.6 m	25.4 m	12.7 m	6.4 m	Structure	
		(208.7 ft) 80 m	(83.3 ft) 32 m	(41.7 ft) 16 m	(21.0ft) 8 m	Casing	Plastic
	3.6 mm	(262.5 ft)	(105.0 ft)	(52.5 ft)	(26.2 ft)	Dimensions	Φ97.1 mm × 93.0 mm (Φ3.82" × 3.66")
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (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 distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.					Net Weight	0.17 kg (0.37lb))
						Gross Weight	0.23 kg (0.51lb)

Video

Ordering Information						
Туре	Part Number	Description				
	DH-HAC- HDW1500TRQP 2.8 mm	5MP HDCVI IR Eyeball Camera, PAL				
	DH-HAC- HDW1500TRQP 3.6 mm					
	DH-HAC- HDW1500TRQN 2.8 mm	5MP HDCVI IR Eyeball Camera, NTSC				
5MP Camera	DH-HAC- HDW1500TRQN 3.6 mm					
SIMP Carriera	DH-HAC-HDW1500TRQP-A 2.8 mm	5MP HDCVI IR Eyeball Camera, PAL				
	DH-HAC-HDW1500TRQP-A 3.6 mm					
	DH-HAC-HDW1500TRQN-A 2.8 mm	5MP HDCVI IR Eyeball Camera, NTSC				
	DH-HAC-HDW1500TRQN-A 3.6 mm	Sivil FIDEVI IN LYEDAII CAIHELA, NI SC				
	PFA13G	Junction Box				
	PFB205W	Wall Mount Bracket				
Accessories	PFA152-E	Pole Mount Bracket (For use with PFB205W)				
Accessories	PFM800-4K	Passive HDCVI Balun				
	PFM321D	12V 1A Power Adapter				
	PFM904	Integrated Mount Tester				

Accessories

Optional:







PFA13G Junction Box

PFB205W Wall Mount Bracket

PFA152-E Pole Mount Bracket (For use with PFB205W)







PFM800-4K Passive HDCVI Balun

PFM321D 12V 1A Power Adapter

PFM904 Integrated Mount Tester

Junction Mount	Wa ll Mount	Ceiling Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])

