

DH-HAC-HDW1501TRQ(-A)

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



- * The parameters and datasheets below can only be applied to 1501-S2 series.
- * In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.000001.0.R.200908 or later version.
- · 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, 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.*

 $\hbox{*Actual results verified by real-scene testing in Dahua's test laboratory}.$

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 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

With working temperature range of-40°C to +50°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-HDW1501TRQ(-A)

Technical Specification						WDR	DWDR	
Camera						White Balance	Auto; manual	
Image Sensor		1/2.7 inch CMOS				Gain Control	Auto; manual	
Max. Resolution	on	2880 (H) × 1620 (V)				Noise Reduction	2D NR	
Pixel		5MP				Smart IR	Yes	
Scanning Syste	em	Progressive				Mirror	Off/On	
Electronic Shu	tter 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				3:2013, EN 55024:2010+A1:2015, EN 55035:2017, EN Certifications 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)	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)	
Illumination Distance		25m (82.0 ft)						
Illuminator On/Off Control		Auto; manual						
Illuminator Nu	ımber	2				Port		
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
						Audio Interface	One channel built-in mic (-A)	
Lens						Power		
Lens Type		Fixed-focal				Power Supply	12V ±30% DC	
Mount Type		M12				Power Consumption	Max 3.0W (12V DC, IR on)	
Focal Length		2.8 mm; 3.6 mm				Environment		
Max. Aperture		F1.6				Operating Temperature	-40°C to +50°C (-40°F to 122°F); \langle 95% (noncondensation)	
Field of View		2.8 mm: 132° × 111° × 58° (diagonal × horizontal × vertical) 3.6 mm: 109° × 92° × 48° (diagonal × horizontal × vertical)				Storage Temperature	-40°C to +50°C (-40°F to 122°F);< 95% (noncondensation)	
			iorizonitai × vei	tical)		Protection Grade	IP50	
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	Plastic	
DORI Distance	Long	Dotast	Ohermin	Door !-	Idont's	Dimensions	Φ97.1 mm × 93.0 mm (Φ3.82" × 3.66")	
	Lens	Detect 63.6 m	Observe 25.4 m	Recognize	Identify 6.4 m	Net Weight	0.17 kg (0.37lb))	
	2.8 mm	(208.7 ft)	(83.3 ft)	(41.7 ft)	(21.0ft)	Gross Weight	0.23 kg (0.51lb)	
	3.6 mm	80 m (262.5 ft)	32 m (105.0 ft)	16 m (52.5 ft)	8 m (26.2 ft)			
Video								

CVI: PAL: 5M@25 fps; 4M@25 fps; 1080P@25 fps; NTSC: 5M@25 fps; 4M@30 fps; 1080P@30 fps

5M (2880 × 1620); 4M (2560 × 1440); 1080P (1920 × 1080); 960 H (960 × 576/960 × 480)

AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps

TVI:

PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H

Auto switch by ICR

BLC/HLC/DWDR

Frame Rate

Resolution

Day/Night

BLC

Ordering Information							
Туре	Part Number	Description					
	DH-HAC- HDW1501TRQP 2.8 mm	5MP HDCVI IR Eyeball Camera, PAL					
	DH-HAC- HDW1501TRQP 3.6 mm						
	DH-HAC- HDW1501TRQN 2.8 mm	5MP HDCVI IR Eyeball Camera, NTSC					
	DH-HAC- HDW1501TRQN 3.6 mm						
5MP Camera	DH-HAC- HDW1501TRQP-A 2.8 mm	5MP HDCVI IR Eyeball Camera, PAL					
	DH-HAC- HDW1501TRQP-A 3.6 mm						
	DH-HAC- HDW1501TRQN-A 2.8 mm	5MP HDCVI IR Eyeball Camera, NTSC					
	DH-HAC- HDW1501TRQN-A 3.6 mm						
	PFA13G	Junction Box					
	PFB205W	Wall Mount Bracket					
A	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:



Junction Box





PFB205W Wall Mount Bracket



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



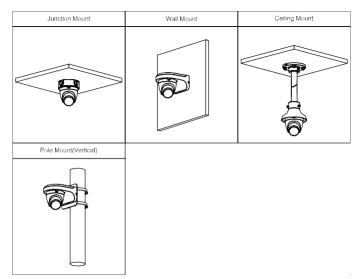
PFM800-4K Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester



Dimensions (mm[inch])

