

DH-HAC-HDW2501TMQ-A-POC

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



System Overview

Pro Series is a perfect choice for SMB solutions and projects where both high reliability and flexibility are required. All cameras are equipped with Starlight feature, 120 dB true WDR and 3D NR, and are able to provide clear images and rich details even under tough lighting conditions.

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 transmission for 2MP/5MP/8MP 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 high definition video surveillance without the hassle of configuring a network.

- * The parameters and datasheets below can only be applied to 2501-POC-S2 series.
- * In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000001.0.R.200908 or later version.
- · Max 25 fps@5MP (16:9 video output)
- · Starlight, 120 dB true WDR, 3D NR
- · 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
- · Max. IR length 60 m, Smart IR
- · IP67, PoC (only CVI)/12V±30% DC













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 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. A DIP switch located on the cable allows you to quickly toggle formats, further simplifying installation and debugging. This feature makes the camera compatible with not only XVRs, but also most existing HD/SD XVRs.

* DIP Switch is available for some models of HDCVI cameras.

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

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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

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

Auto (ICR)

BLC/HLC/WDR/HLC-Pro

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

Frame Rate

Resolution

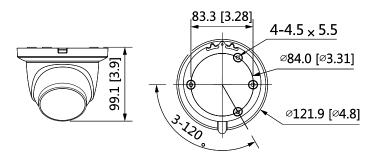
Day/Night

BLC

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Technical Specification							WDR	120 dB
Camera							White Balance	Auto/Manual
Image Sensor		1/2.7" CMOS					Gain Control	Auto/Manual
Max. Resolution		2880 (H) × 1620 (V)					Noise Reduction	3D NR
Pixel		5MP					Smart IR	Yes
Scanning System		Progressive					Mirror	Yes
Electronic Shutter Speed		PAL: 1/3 s-1/100,000 s NTSC: 1/4 s-1/100,000 s					Privacy Masking	Off/On (8 areas, rectangle)
S/N Ratio		> 65 dB					Certifications	
Min. Illumination		0.001 Lux/F1.6, 30IRE, OLux IR on						CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN
Illumination Distance		60 m (196.9 ft)					Certifications	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 On/Off Control		Auto/Manual					Port	21(0120330 1: 0.1.) 03. (012.12 1.0.00330 1)
Illuminator Number		2 (IR light) Pan: 0°–360°					Audio Interface	One channel built-in mic
Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens							Power	
Lens Type		Fixed-focal					Power Supply	POC (only CVI)/12V±30% DC
Mount Type		M12					Power Consumption	Max 5.9W (12V DC, IR on); PoC (AF)
Focal Length		2.8 mm; 3.6 mm; 6 mm					Environment	
Max. Aperture		F1.6					Operating Temperature	-40°C to +60°C (-40°F to +140°F); < 95% (non- condensation)
Field of View		2.8 mm: H: 111°; V: 58°; D: 132° 3.6 mm: H: 92°; V: 48°; D: 109° 6 mm: H: 57°; V: 30°; D: 65°					Storage Temperature	$-40^{\circ}\text{C to } +60^{\circ}\text{C } (-40^{\circ}\text{F to } +140^{\circ}\text{F}); < 95\% \text{ (noncondensation)}$
Iris Type		Fixed					Protection Grade	IP67
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.2 ft)					Structure	
			6 mm: 3.1 m (10.2 ft)				Casing	Metal dome+metal cover+plastic decorative ring
DORI Distance	Lens			Recognize			Camera Dimensions	φ121.9 mm × 99.1 mm (φ4.8" × 3.9")
	2.8 mm	63.6 m (208.7 ft)	25.4 m (83.3 ft)	12.7 m (41.7 ft)	6.4 m (21.0 ft)		Net Weight	0.54 kg (1.19 lb)
	3.6 mm	80 m (262.5 ft)	32 m (105.0 ft)	16 m (52.5 ft)	8 m (26.2 ft)		Gross Weight	0.73 kg (1.61 lb)
	6 mm	120 m (393.7 ft)	48 m (157.5 ft)	24 m (78.7 ft)	12 m (39.4 ft)			
Video								
		CVI: PAL: 5M@25 fps; 4M@25 fps NTSC: 5M@25 fps; 4M@30 fps AHD:						

Ordering Information							
Туре	Part Number	Description					
	DH-HAC-HDW2501TMQP- A-POC 2.8 mm						
	DH-HAC-HDW2501TMQN- A-POC 2.8 mm						
5MP Camera	DH-HAC-HDW2501TMQP- A-POC 3.6 mm	5MP Starlight HDCVI Quick-to-install IR					
SIVIP Camera	DH-HAC-HDW2501TMQN- A-POC 3.6 mm	Eyeball Camera					
	DH-HAC-HDW2501TMQP- A-POC 6 mm						
	DH-HAC-HDW2501TMQN- A-POC 6 mm						
	PFA137	Junction Box					
	PFA130-E	IP66 Junction Box					
Accessories	PFB205W	Wall Mount Bracket					
Accessories	PFA152-E	Pole Mount Bracket					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					

Dimensions (mm[inch])



Accessories

Optional:



PFA137 Junction Box



PFA130-E IP66 Junction Box



PFB205W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester

