

DH-HAC-HDW2501TMQP-Z-A-POC

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



System Overview

Built for convenience, the PoC Series features highly reliable cameras that are powered directly by recorders on the same coaxial cable* that its videos are transmitted over. HDCVI PoC technology greatly reduces material and installation cost, making it an ideal choice for customers who are on a tight budget and are working with scenes that require complex deployment.

*We recommend choosing RG59 or RG6 cable for PoC transmission.

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.

Starlight

With the adoption of large sized high performance sensor and large aperture lens, the camera is able to provide incomparable performance even under extreme lowlight environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

- * 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
- · Built-in mic
- · 2.7 mm-13.5 mm motorized lens
- · Max. IR length 60 m, Smart IR
- · IP67, PoC (only CVI)/12V±30% DC















Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

Smart IR

The camera is designed with IR 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.

Wide Dynamic Range

With advanced Wide Dynamic Range (WDR) technology, Dahua HDCVI camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Advanced 3D NR

3D NR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3D NR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3D NR effectively decreases the band width and saves the storage space.

Protection

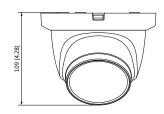
IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

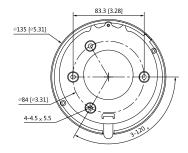
Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification					White Balance	Auto/manual	
Camera					Gain Control	Auto/manual	
Image Sensor		1/2.7" CMO	S			Noise Reduction	3D NR
Max. Resolution		2880 (H) × 1620 (V)				Smart Illumination	Yes
Pixel		5MP				Digital Zoom	4x
Scanning System		Progressive				Defog	Electronic defog
Electronic Shutter Speed		PAL: 1/3 s-1/100,000 s NTSC: 1/4 s-1/100,000 s				Mirror	Yes
S/N Ratio		> 65 dB				Privacy Masking	Off/On (8 areas, rectangle)
Min. Illumination		0.001 Lux/F	1.6; 30 IRE; 0	Lux IR on		Certifications	
Illumination Dis	tance	60 m (196.9) ft)				CE (EN55032:2015, EN 61000-3-2:20
Illuminator On/Off Control		Auto/manu	al			Certifications	61000-3-3:2013, EN55024:2010+A1:: 55035:2017, EN50130-4:2011+A1:20 1:2014+A11:2017)
Illuminator Number		2 (IR light)	2 (IR light)				FCC (CFR 47 FCC Part 15 subpartB, AI UL (UL60950-1+CAN/CSA C22.2 No.6
Pan/Tilt/Rotation Range		Pan: 0°-360 Tilt: 0°-78° Rotation: 0°				Port	
Lens		notation. 0	300			Audio Interface	One channel built-in mic
Lens Type		Motorized v	vari-focal			Video Output	Video output choices of CVI/TVI/AHD BNC port
Auto Focus		Yes				Power	
Mount Type		ф14				Power Supply	POC (only CVI)/12V±30% DC
Focal Length		2.7 mm-13.5 mm				Power Consumption	Max 8.0W (12 VDC, IR on); PoC (AT)
Max. Aperture		F1.6				Environmental	
Field of View		H: 31.4°-11 V: 17.6°-58	0			Operating Temperature	-30°C to +60 $^{\circ}\text{C}$ (–22 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F}$); (non-condensation)
Iris Tyne		D: 36°-138° Fixed				Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F); (non-condensation)
Iris Type		0.8 m (2.6 fi	t)			Protection Grade	IP67
Close Focus Distance Lens		Detect				Structure	
		64.0 m	25.6 m	12.8 m	6.4 m	Casing	Metal dome+metal cover+plastic dec
DORI distance	2.7mm	(210.0 ft)	(84.0 ft)	(42.0 ft)	(21.0 ft)	Camera Dimensions	φ135 mm × 109 mm (φ5.31" × 4.28"
	13.5mm	210.0 m (689.0 ft)	84.0 m (275.6 ft)	42.0 m (137.8 ft)	21.0 m (68.9 ft)	Net Weight	0.54 kg (1.19 lb)
Video						Gross Weight	0.73 kg (1.61 lb)
Frame Rate		CVI: PAL: 5M@25 fps; 4M@25 fps NTSC: 5M@25 fps; 4M@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		1620); 4M (2	560 × 1440); 9	960H (960 ×		
Resolution		576/960 × 4	180)				
Resolution Day/Night			180)				
		576/960 × 4 Auto (ICR)	DR/HLC-Pro				

Ordering Information							
Туре	Part Number	Description					
5MP Camera	DH-HAC- HDW2501TMQP-Z-A- POC 2.7 mm–13.5 mm	5MP Starlight HDCVI Quick-to-install IR Eyeball Camera					
SMP Camera	DH-HAC- HDW2501TMQN-Z-A- POC 2.7 mm–13.5 mm						
	PFA13F	Junction Box					
	PFB211W	Wall Mount Bracket					
A	PFA152-E	Pole Mount Bracket					
Accessories	PFM321D	12V 1A Power Adapter					
	PFM320D-015	12V 1.5A Power Adapter					
	PFM904	Integrated Mount Tester					

Dimensions (mm[inch])





Accessories

Optional:



PFA13F Junction Box



PFB211W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFM321D 12V 1A Power Adapter



PFM320D-015 12V 1.5A Power Adapter



PFM904 Integrated Mount Tester

Junction Mount	Wa ll Mount	Pole Mount(Vertical)