

# DH-HAC-HDW2501TMQ-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.

- \* 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.

Technical S	pecification						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, 30 IRE, 0 Lux IR on					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)
Illumination Distance		60 m (196.9 ft)						
Illuminator On/Off Control		Auto/Manual					Port	OE (OE00930-1+CAN)/CSA C22.2 NO.00930-1)
Illuminator Number		2 (IR light)					Audio Interface	One channel built-in mic
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
Lens							Power	
Lens Type		Fixed-focal					Power Supply	POC (only CVI)/12V±30% DC
Mount Type		M12					Power Consumption	Max 5.9W (12 VDC, IR on); PoC (AF)
Focal Length		2.8 mm; 3.6 mm; 6 mm					Environment	
Max. Aperture		F1.6					Operating Temperature	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F}$ ); < 95% (noncondensation)
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% (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					Casing	Metal dome+metal cover+plastic decorative ring
DORI Distance	Lens	Detect 63.6 m	Observe 25.4 m	Recognize 12.7 m	Identify 6.4 m		Camera Dimensions	$\phi$ 121.9 mm × 99.1 mm ( $\phi$ 4.8" × 3.9")
	2.8 mm	(208.7 ft)	(83.3 ft)	(41.7 ft)	(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								

# Day/Night Auto (ICR)

BLC/HLC/WDR/HLC-Pro

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

Frame Rate

Resolution

BLC

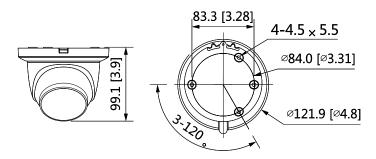
PAL: 5M@25 fps; 4M@25 fps NTSC: 5M@25 fps; 4M@30 fps

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

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

Ordering Information						
Туре	Part Number	Description				
	DH-HAC-HDW2501TMQP-A- POC 2.8 mm					
	DH-HAC-HDW2501TMQN-A- POC 2.8 mm	5MP Starlight HDCVI Quick-to-install IR Eyeball Camera				
5MP Camera	DH-HAC-HDW2501TMQP-A- POC 3.6 mm					
SIVIP Calliera	DH-HAC-HDW2501TMQN-A- POC 3.6 mm					
	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

Junction Mount	Wa <b>ll</b> Mount	Pole Mount(Vertical)