

# DH-HAC-HDW2501TLM-A-POC

5MP Starlight HDCVI POC IR Eyeball Camera



- \* In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to

\* The parameters and datasheets below can only be applied to 2501-S2 series

- · Max 25 fps@5MP (16:9 video output)
- · Starlight, 120 dB true WDR, 3D NR
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (2.8 mm optional)
- · Built-in mic
- · Max. IR length 30 m, Smart IR
- · IP67, POC (only CVI)/12V±30% DC















#### **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.

#### **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.

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

#### 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.

#### **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

\*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.

#### 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.

### **Smart Illumination**

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.

#### Protection (IP67, wide voltage)

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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification							Gain Control	Auto/Manual
Camera							Noise Reduction	3D NR
Image Sensor		5MP CMOS					Smart Illumination	Yes
Max. Resolution		2880 (H) × 1620 (V)					Defog	Electronic defog
Pixel		5 MP					Digital Zoom	4x
Scanning System		Progressive					Mirror	Off/On
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					Pick-up Distance	5 m (16.4 ft)
Min. Illumination		0.001 Lux/F1.6, 30IRE, 0Lux IR on					Certifications	
Illumination Distance		30 m (98.4 ft)					Certifications	CE (EN55032, EN55024, EN50130-4, EN62368-1) 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	
Illuminator Number		1 (IR light) Pan: 0°–360°					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°					Audio Input	One channel built-in mic
Lens							Power	
Lens Type		Fixed lens					Power Supply	POC (only CVI)/12V±30% DC
Mount Type		M12					Power Consumption	Max 4.3 W (12 VDC, IR on); PoC (AF)
Focal Length		2.8 mm; 3.6 mm;					Environment	
Max. Aperture	9	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°					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	
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Casing	Metal throughout the whole casing
	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)		Camera Dimensions	φ94.0 mm × 85.7 mm (φ3.70" × 3.37")
	3.6 mm	80.0 m	32.0 m	16.0 m	8.0 m (26.2 ft)		Net Weight	0.33 kg (0.73 lb)
) (: -I	3.0 mm	(262.5 ft)	(105.0 ft)	(52.5 ft)			Gross Weight	0.47 kg (1.04 lb)
Video								

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

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

CVBS: PAL: 960H; NTSC: 960H

120dB

Auto; Area WB

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

5M (2880 × 1620); 4M (2560 × 1440);

Auto switch by ICR

BLC/HLC/WDR/HLC-Pro

1080P (1920×1080); 960 H (960×576/960×480)

Video Frame Rate

Resolution

Day/Night

White Balance

BLC

WDR

Ordering Information						
Туре	Part Number	Description				
ENAD Compare	DH-HAC- HDW2501TLMP-A-POC	5MP Starlight HDCVI POC IR Eyeball Camera, PAL				
5MP Camera	DH-HAC- 5MP Star HDW2501TLMN-A-POC NTSC	5MP Starlight HDCVI POC IR Eyeball Camera, NTSC				
	PFA13A-E	Junction box				
	PFB205W	Wall Mount Bracket				
	PFA152-E	Pole Mount Bracket				
A	PFA106	Adapter plate				
Accessories	PFB220C	Ceiling Mount Bracket				
	PFM800-4K	Passive HDCVI Balun				
	PFM321	12V 1A Power Adapter				
	PFM904	Integrated Mount Tester				

Junction Mount	Ceiling Mount	Wall Mount
Pole Mount (Vertical)		

# Dimensions (mm[inch])

# **Accessories**

## Optional:



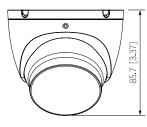
PFA13A-E Junction box

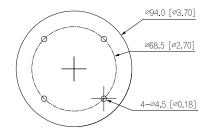


PFB205W Wall Mount Bracket



PFA152-E Pole Mount Bracket







PFA106 Mount Adapter



PFB220C Ceiling Mount Bracket



PFM800-4K Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester