

DH-HAC-HDW2501TLM-A

5MP Starlight HDCVI IR Eyeball Camera



- * The parameters and datasheets below can only be applied to 2501-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
- · 3.6 mm fixed lens (2.8 mm optional)
- · Built-in mic
- · Max. IR length 30 m, Smart IR
- · IP67, DC12V















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, 120dB true WDR and 3DNR, 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.

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.

* Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700m transmission for 2MP/5MP/8MP HD video via coaxial cable, and up to 300m 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.

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 S	pecificatio	n				
Camera						
Image Sensor		5MP CMOS				
Max. Resolution		2880(H)×1620(V)				
Pixel		5MP				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/3 s-1/100,000 s NTSC: 1/4 s-1/100,000 s				
S/N Ratio		>65 dB				
Min. Illumination		0.001 Lux/F1.6, 30IRE, 0Lux IR on				
Illumination Distance		30 m (98.4 ft)				
Illuminator On/Off Control		Auto; manual				
Illuminator Number			1 (IR light)			
Pan/Tilt/Rotation Range		Tilt: 0°-78°	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
_ens						
Lens Type		Fixed lens	Fixed lens			
Mount Type		M12	M12			
Focal Length		2.8 mm; 3.6 mm;				
Max. Aperture		F1.6 2.8 mm:H:111° V:58° D:132°				
Field of View		3.6 mm: H:9	3.6 mm: H:92° V:48° D:109°			
Iris Type		Fixed				
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.2 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	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)	
	3.6 mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)	
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NTSC: 5M@25 fps; 4M@30 fps; 1080P@30 fps

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

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

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

Auto switch by ICR BLC/HLC/WDR/HLC-Pro

120dB

Auto; Area WB

Video Frame Rate

Resolution

Day/Night

White Balance

BLC WDR

Noise Reduction	3D NR		
Smart Illumination	Yes		
Defog	Electronic defog		
Digital Zoom	4x		
Mirror	Off/On		
Privacy Masking	Off/On (8area,rectangle)		
Certifications			
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)		
Port			
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)		
Audio Input	One channel built-in mic		
Power			
Power Supply	12V ±30% DC		
Power Consumption	Max 4.3W (12V DC, IR on)		
Environment			
Operating Temperature	-40°C to +60°C (–40°F to 140°F); $<$ 95% (noncondensation)		
Storage Temperature	-40°C to +60°C (–40°F to 140°F); < 95% (noncondensation)		
Protection Grade	IP67		
Structure			
Casing	Metal throughout the whole casing		
Camera Dimensions	φ94.0 mm × 85.7 mm (φ3.70" × 3.37")		
Net Weight	0.33 kg (0.73 lb)		
Gross Weight	0.47 kg (1.04 lb)		

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

Junction Mount	Celling Mount	Wall Mount
Pole Mount (Vertical)		

Dimensions (mm[inch])

Accessories

Optional:



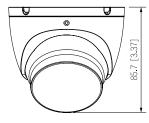
PFA13A-E Junction box

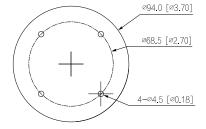


PFB205W Wall Mount Bracket



PFA152-E Pole Mount Bracket







PFA106 Mount Adapter



PFB220C Ceiling Mount Bracket



PFM800-4K Passive HDCVI Balun



PFM321 12V 1A Power Adapter



PFM904 Integrated Mount Tester