

DH-HAC-HDW2241TLM-A-POC

2 MP Starlight HDCVI Fixed IR Eyeball Camera



* The parameters and datasheets below can only be applied to 2241-S2-POC series.

- Max 30 fps@1080p
- Starlight, 130 dB true WDR, 3D NR
- 3.6 mm fixed lens (2.8 mm optional)
- CVI/CVBS/AHD/TVI switchable
- Super Adapt
- 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

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.

Super Adapt

Embedded with intelligent algorithm, for changing external environment, camera can automatically adjust parameters to present the optimal image, and it solves the trouble of configuration.

Advanced 3DNR

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

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.

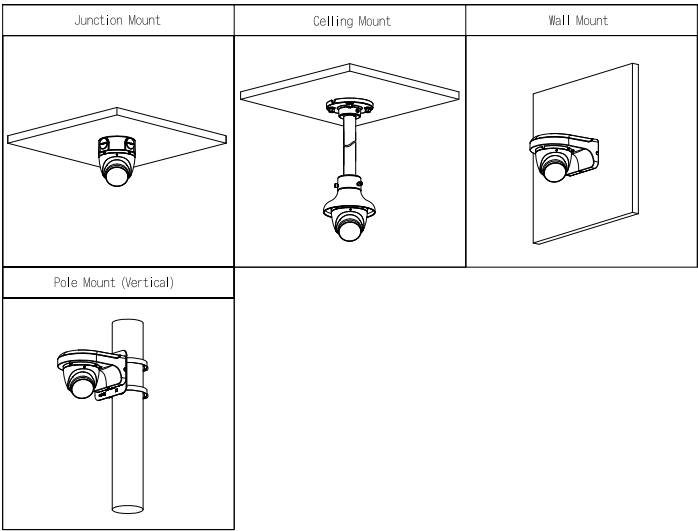
Broadcast-quality Audio

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.

Technical Specification						
Camera						
Image Sensor		2 MP CMOS				
Max. Resolution		1920 (H) × 1080 (V)				
Pixel		2 MP				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25 s–1/100,000 s NTSC: 1/30 s–1/100,000 s				
S/N Ratio		> 65 dB				
Min. Illumination		0.001 Lux/F1.6, 30 IRE, 0 Lux IR on				
Illumination Distance		30 m (98.4 ft)				
Illuminator On/Off Control		Auto; manual				
Illuminator Number		2 (IR light)				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				
Lens						
Lens Type		Fixed lens				
Mount Type		M12				
Focal Length		2.8 mm; 3.6 mm				
Max. Aperture		F1.6				
Field of View		2.8 mm: H: 109°; V:58°; D: 127° 3.6 mm: H: 86°; V:46°; D: 101°				
Iris Type		Fixed iris				
Close Focus Distance		2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.1 m (3.6 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	42.2 m (138.5 ft)	16.9 m (55.4 ft)	8.4 m (27.6 ft)	4.2 m (13.8 ft)	
	3.6 mm	53.7 m (176.2 ft)	21.5 m (70.5 ft)	10.7 m (35.1 ft)	5.4 m (17.7 ft)	
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/ project design tool.					
Video						
Frame Rate		CVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; CVBS: PAL: 960 × 576H; NTSC: 960 × 480H				

Resolution		1080p (1920 × 1080); 960H (960 × 576 / 960 × 480)
Day/Night		Auto switch by ICR
BLC		BLC/WDR/HLC
WDR		130 dB
White Balance		Auto/Area WB
Gain Control		Auto; manual
Noise Reduction		3D NR
Smart IR		Yes
Mirror		Off/On
Privacy Masking		Off/On (8 area, rectangle)
Certifications		
Certifications		CE (EN55032, EN55024, EN50130-4) 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
Audio Input		One channel built-in mic
Power		
Power Supply		POC (only CVI)/12V±30% DC
Power Consumption		Max 3.1W (12V DC, IR on) PoC (AF)
Environment		
Operating Temperature		–40 °C to +60 °C (–40 °F to 140 °F); < 95% (non-condensation)
Storage Temperature		–40 °C to +60 °C (–40 °F to 140 °F); < 95% (non-condensation)
Protection Grade		IP67
Structure		
Casing		Metal throughout the whole casing
Camera Dimensions		Φ94.0 mm × 58.7 mm (Φ3.70" × 3.37")
Net Weight		0.34 kg (0.7 lb)
Gross Weight		0.46 kg (1.0 lb)

Ordering Information		
Type	Model	Description
2 MP Camera	DH-HAC-HDW2241TLMP-A-POC	2 MP Starlight HDCVI Fixed IR Eyeball Camera, PAL
	DH-HAC-HDW2241TLMN-A-POC	2 MP Starlight HDCVI Fixed IR Eyeball Camera, NTSC
Accessories (Optional)	PFA13A-E	Junction Box
	PFB204W	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFA106	Mount Adapter
	PFB220C	Ceiling Mount Bracket of Mini Dome & Eyeball Camera
	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester



Accessories

Optional:



PFA13A-E
Junction Box



PFB204W
Wall Mount Bracket



PFA152-E
Pole Mount Bracket



PFA106
Mount Adapter



PFB220C
Ceiling Mount Bracket of
Mini Dome & Eyeball
Camera



PFM321D
12V 1A Power Adapter



PFM904
Integrated Mount Tester

Dimensions (mm[inch])

