DH-HAC-HDW1509T-A-LED-POC

5MP Full-Color HDCVI PoC Eyeball Camera

Full-color

* The parameters and datasheets below can only be applied to 1509-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)

· 120 dB true WDR, 3D NR

· 24/7 color imaging

· 40 m illumination distance

· CVI/CVBS/AHD/TVI switchable

· Built-in mic

· 3.6 mm fixed lens (2.8 mm optional)

· IP67, PoC (only CVI)/12 V±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

Full-color

Full-color camera adopts large aperture lens and high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera provides 24/7 color monitoring that collects clear and vivid information,significantly increasing probability of gathering valid human, vehicle, and event evidence that can be used for further intelligent analysis.

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.

*This function is available for select models.

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 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.

Warm Supplemental Lights

With warm supplemental LED lights, the camera is able to provide a coloful and vivid image even in total darkness. By default, the camera is set to smart light mode, in which the camera can automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposureing of the objects in the image center.

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.

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.

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

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/F1.0, 0 Lux warm light on
Illumination Distance	40 m (131.2 ft)
Illuminator On/Off Control	Auto; manual
Illuminator Number	2
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	F1.0
Field of View	2.8 mm: H: 112°; V: 57°; D: 132° 3.6 mm: H: 88; V: 46°; D: 104°
Iris Type	Fixed iris
Close Focus Distance	2.8 mm: 2 m (6.56 ft) 3.6 mm: 2.3 m (7.55 ft)

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	67.4 m (212.3 ft)	27.0 m (88.6 ft)	13.5 m (44.3 ft)	6.7 m (22.0 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)

*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: 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	5M (2880 × 1620); 4M (2560 × 1440); 960H (960 × 576/960 × 480)
BLC	BLC/HLC/WDR/HLC-Pro
WDR	120 dB
White Balance	Auto; Area WB
Gain Control	Auto; manual
Noise Reduction	3D NR
Smart Light	Yes
Mirror	Off/On
Privacy Masking	Off/On (8 areas, rectangle)

Certifications

Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) 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
Audio Input	One channel built-in mic

Power

Power Supply	POC (only CVI)/12 V±30% DC
Power Consumption	Max6.4 W (12 V DC, warm light on) PoC (AF)

Environment

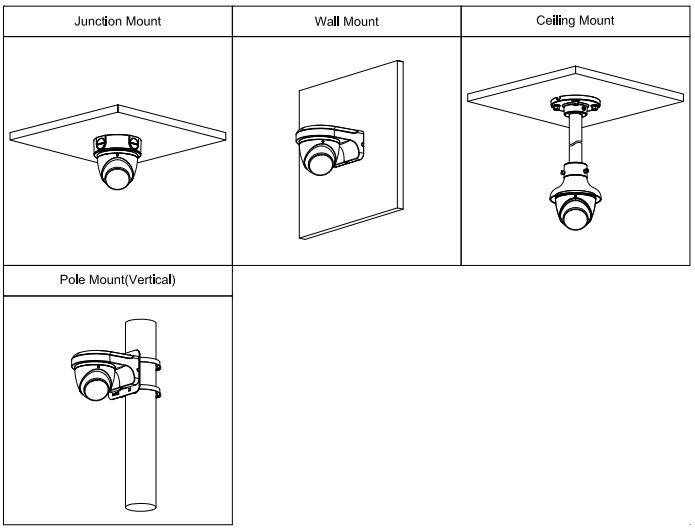
Operating Temperature	–40 °C to +60 °C (–40 °F to +140 °F); < 95% (non-condensation)
Storage Temperature	–40 °C to +60 °C (–40 °F to +140 °F); < 95% (non-condensation)
Protection Grade	IP67

Structure

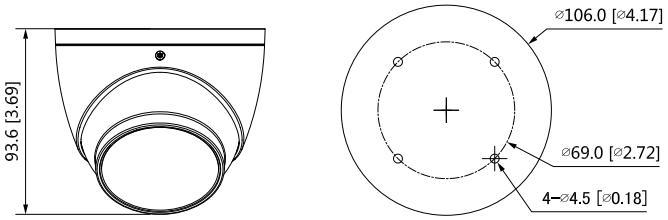
Casing	Metal throughout the whole casing
Camera Dimensions	ϕ106.0 mm × 93.6 mm (ϕ4.17" × 3.69")
Net Weight	0.49 Kg (1.08 lb)
Gross Weight	0.68 Kg (1.50 lb)

Ordering Information

Type	Model	Description
5MP Camera	DH-HAC-HDW1509TP-A-LED-POC	5MP Full-Color HDCVI PoC Eyeball Camera, PAL
	DH-HAC-HDW1509TN-A-LED-POC	5MP Full-Color HDCVI PoC Eyeball Camera, NTSC
Accessories (Optional)	PFA139	Junction box
	PFA130-E	Water-proof Junction Box
	PFB205W	Wall Mount Bracket
	PFA106+PFB220C	Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera
	PFA152-E+PFB205W	Pole Mount Bracket + Wall Mount Bracket
	PFM800-4K	Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])



Accessories

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Junction box

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Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera

PFA152-E+PFB205W
Pole Mount Bracket + Wall Mount Bracket

PFM800-4K
Passive HDCVI Balun

PFM321D
12 V 1A Power Adapter

PFM904
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