

DH-HAC-HDW1509T(-A)-LED

5MP Full-color HDCVI Eyeball Camera

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System Overview

Lite Series is suitable for users who requires high quality monitoring products at a reasonable price. It is cost effective and offers high performance, which makes it an ideal choice for residential and small-medium business applications. This series offers an option of a wide range of technologies such as Full-color and Starlight, providing various solutions for different scenarios.

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.

- * The parameters and datasheets below can only be applied to1509-S2 series.
 *In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.000001.0.R.200908 or later version.
- \cdot Max 25 fps@5MP (16:9 video output)
- \cdot 120 dB true WDR, 3D NR
- \cdot 24/7 color imaging
- \cdot 40 m illumination distance
- · CVI/CVBS/AHD/TVI switchable
- · Built-in mic (-A)
- · 3.6 mm fixed lens (2.8 mm optional)
- IP67, 12 V DC



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



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Technical Specification

5MP CMOS			
2880 (H) × 1620 (V)			
5MP			
Progressive			
PAL:1/3 s-1/100,000 s NTSC:1/4 s-1/100,000 s			
> 65 dB	> 65 dB		
0.001 Lux/F1.0, 0 Lux warm light on			
40 m (131.2 ft)			
Auto; manual			
2			
Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Fixed lens			
M12			
2.8 mm; 3.6 i	2.8 mm; 3.6 mm		
F1.0			
	2.8 mm: H: 112°; V: 57°; D: 132° 3.6 mm: H: 88; V: 46°; D: 104°		
Fixed iris	Fixed iris		
	2.8 mm: 1.6 m (5.25 ft); 3.6 mm: 2.3 m (7.5 ft)		
Detect	Observe	Recognize	Identify
67.4 m (212.3 ft)	27.0 m (88.6 ft)	13.5 m (44.3 ft)	6.7 m (22.0 ft)
80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)
	2880 (H) × 16 5MP Progressive PAL:1/3 s-1/ NTSC:1/4 s-1 > 65 dB > 65 dB > 0.001 Lux/F1 40 m (131.2 m) Auto; manual 2 Pan: 0°-360° Tilt: 0°-78° Rotation: 0°-78° Fixed lens M12 2.8 mm; 3.6 m F1.0 2.8 mm; 1.6 m 3.6 mm: 1.8 m Fixed iris 2.8 mm; 1.6 m 3.6 mm; 2.3 m) Detect 67.4 m (212.3 ft) 80.0 m	2880 (H) × 1620 (V) 5MP Progressive Progressive. PAL:1/3 s−1/100,000 s NTSC:1/4 s−1/100,000 s > 65 dB 0.001 Lux/F1.0, 0 Lux warm 40 m (131.2 ft) Auto; manual 2 Pan: 0°-360° Tilt: 0°-78° Rotation: 0°-360° Fixed lens K12 2.8 mm; 3.6 mm; 4: 12°; V: 57°; D: 3.6 mm; H: 8±; V: 46°; D: 100 Fixed iris Fixed iris 2.8 mm; 1.6 mm; 1.6 mm; 5.25 ft); 3.6 mm; 2.3 mm; 5.7 mm	2880 (H) × 1620 (V) 5MP Progressive Progressive PAL:1/3 s-1/100,000 s NTSC:1/4 s-1/100,000 s NTSC:1/4 s-1/100,000 s > 65 dB 0.001 Lux/F1.0, 0 Lux warm light on 40 m (131.2 ft) Auto; manual 2 Pan: 0°-360° Tilt: 0°-78° Rotation: 0°-360° Fixed lens Fixed lens F1.0 2.8 mm; 3.6 minic 1.5 v: 57°; D: 1.5 vinic 1.5 vin

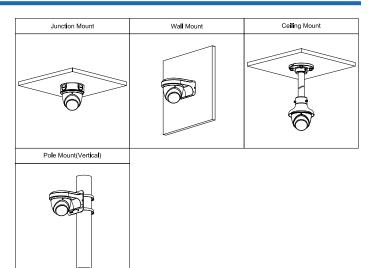
Gain Control	Auto; manual	
Noise Reduction	3D NR	
Smart Light	Yes	
Mirror	Off/On	
Privacy Masking	Off/On (8 areas, rectangle)	
Certifications		
Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)	
Port		
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Audio Input	One channel built-in mic (-A)	
Power		
Power Supply	12 V ±30% DC	
Power Consumption	Max 6.4 W (12 V DC, warm light on)	
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	0.48 Kg (1.06 lb)	
Gross Weight	0.67 Kg (1.48 lb)	

Video

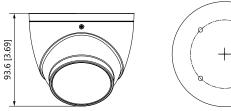
Frame Rate	CVI: PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H;	
Resolution	NTSC: 960H 5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)	
BLC	BLC/HLC/WDR/HLC-Pro	
WDR	120 dB	
White Balance	Auto; Area WB	

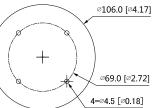
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Ordering Information				
Туре	Model	Description		
5MP Camera	DH-HAC-HDW1509TP- LED	5MP Full-color HDCVI Eyeball Camera, PAL		
	DH-HAC-HDW1509TN- LED	5MP Full-color HDCVI Eyeball Camera, NTSC		
	DH-HAC-HDW1509TP- A-LED	5MP Full-color HDCVI Eyeball Camera, PAL		
	DH-HAC-HDW1509TN- A-LED	5MP Full-color HDCVI 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

Optional:



PFA139 Junction box



PFA130-E Water-proof Junction Box



PFA106+PFB220C Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera



PFM321D 12 V 1A Power Adapter



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



PFM904 Integrated Mount Tester



PFB205W

Wall Mount Bracket

PFM800-4K Passive HDCVI Balun

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