

DH-HAC-HDW1509T-Z-A-LED

5MP Full-Color HDCVI Motorized Vari-focal Eyeball Camera





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 oftechnologies 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 processingand 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 e nvironment, 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 SMP 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, 3DNR
- \cdot 24/7 color imaging
- \cdot 40 m illumination distance
- · CVI/CVBS/AHD/TVI switchable
- \cdot Built-in mic
- · Auto focus, 2.7 mm–13.5 mm motorized lens
- · IP67, 12 V±30% DC



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.

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 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.

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

Can	nora	
Car	nera	

Camera	Camera				
Image Sensor		5MP CMOS			
Max. Resolutio	on	2880 (H) × 16	520 (V)		
Pixel		5MP	5MP		
Scanning Syste	em	Progressive			
Electronic Shu	tter Speed	PAL: 1/3 s-1/100,000 s NTSC: 1/4 s-1/100,000 s			
S/N Ratio		> 65 dB			
Min. Illuminat	ion	0.001 Lux/F1.2, 0 Lux White Light on			
Illumination D	istance	40 m (132.1 ft)			
Illuminator On	/Off Control	Auto; manual			
Illuminator Nu	ımber	2			
Pan/Tilt/Rotat	tion Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Motorized Vari-focal			
Mount Type		ф14			
Focal Length		2.7 mm-13.5 mm			
Max. Aperture	2	F1.2			
Field of View		H: 35°–112°; V: 19°–58°; D: 40–137°			
Iris Type		Fixed iris			
Close Focus Distance 1.5 m		1.5 m (4.9 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.7 mm	65.2 m (213.9 ft)	26 m (85.3 ft)	13 m (42.7 ft)	6.5 m (21.3 ft)
Distance		(215.510)			

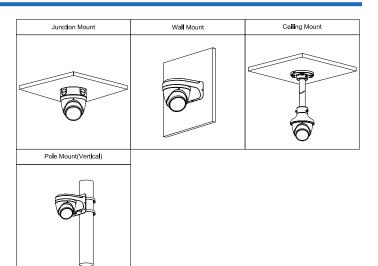
Auto; Area WB
Auto; manual
3D NR
Yes
Off/On
Off/On (8 area, rectangle)
CE (EN55032, EN55024, EN50130-4,EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Video output choices of CVI/TVI/AHD/CVBS by one BNC port
One channel built-in mic
12 V ±30% DC
Max 7.92 W (12 V DC, warm light on)
–30 °C to +60 °C (–22 °F to 140 °F); < 95% (noncondensation)
-30 °C to +60 °C (–22 °F to 140 °F); < 95% (noncondensation)
IP67
Metal throughout the whole casing
φ122 mm × 104.8 mm (φ4.8" × 4.13")
0.58 kg (1.28 lb)

Video

	CVI:
Frame Rate	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;
	NTSC: 960H
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080P (1920 ×
	1080); 960H (960 × 576/960 × 480)
BLC	BLC/HLC/WDR/HLC-Pro
WDR	120 dB

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Ordering Information				
Туре	Model	Description		
5MP Camera	DH-HAC-HDW1509TP- Z-A-LED	5MP Full-Color HDCVI Motorized Vari-focal Eyeball Camera, PAL		
	DH-HAC-HDW1509TN- Z-A-LED	5MP Full-Color HDCVI Motorized Vari-focal Eyeball Camera, NTSC		
Accessories (Optional)	PFA137	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:



PFA137 Junction box



PFA130-E Water-proof Junction Box



PFA106+PFB220C

Eyeball Camera + Ceiling Mount

Bracket of Mini Dome & Eyeball Camera

PFM321D

12 V 1A Power Adapter

Adapter Plate of Mini Dome &





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



PFM904 Integrated Mount Tester

PFM800-4K Passive HDCVI Balun



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