

DH-HAC-HFW1509TU-Z-A-LED

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



* 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, 3DNR
- 24/7 color imaging
- 60 m illumination distance
- CVI/CVBS/AHD/TVI switchable
- Built-in mic
- Auto focus, 2.7 mm–13.5 mm motorized lens
- IP67, 12 V±30% DC



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.

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 colorful 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 overexposure 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 work 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/F1.2, 0 Lux White Light on				
Illumination Distance		60 m (196.9 ft)				
Illuminator On/Off Control		Auto; manual				
Illuminator Number		4				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens						
Lens Type		Motorized Vari-focal				
Mount Type		φ14				
Focal Length		2.7 mm–13.5 mm				
Max. Aperture		F1.2				
Field of View		H: 35°–112°; V: 19°–58°; D: 40–137°				
Iris Type		Fixed iris				
Close Focus Distance		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)	
	13.5 mm	186.6 m (612.2 ft)	74.6 m (244.8 ft)	37.3 m (122.4 ft)	18.6 m (61 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; 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
White Balance		Auto; Area WB
Gain Control		Auto; manual
Noise Reduction		3D NR
Smart Light		Yes
Mirror		Off/On
Privacy Masking		Off/On (8 area, 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		12 V ±30% DC
Power Consumption		Max 11.88 W (12 V DC, warm light on)
Environment		
Operating Temperature		–30 °C to +60 °C (–22 °F to 140 °F); < 95% (noncondensation)
Storage Temperature		–30 °C to +60 °C (–22 °F to 140 °F); < 95% (noncondensation)
Protection Grade		IP67
Structure		
Casing		Metal throughout the whole casing
Camera Dimensions		244.1 mm × 90.4 mm × 90.4 mm (9.61" × 3.56" × 3.56")
Net Weight		0.79 kg (1.74 lb)
Gross Weight		1.04 kg (2.29 lb)

Ordering Information		
Type	Model	Description
SMP Camera	DH-HAC-HFW1509TUP-Z-A-LED	5MP Full-Color HDCVI Motorized Vari-focal Bullet Camera, PAL
	DH-HAC-HFW1509TUN-Z-A-LED	5MP Full-Color HDCVI Motorized Vari-focal Bullet Camera NTSC
Accessories (Optional)	PFA135	Junction box
	PFA130-E	Water-proof Junction Box
	PFA152-E	Pole Mount Bracket (For use with PFA130-E Water-proof Junction Box)
	PFM800-4K	Passive HDCVI Balun
	PFM320D	12V 2A Power Adapter
	PFM904	Integrated Mount Tester

Accessories

Optional:



PFA135
Junction box



PFA130-E
Water-proof Junction Box



PFA152-E
Pole Mount Bracket
(For use with PFA130-E Water-proof Junction Box)



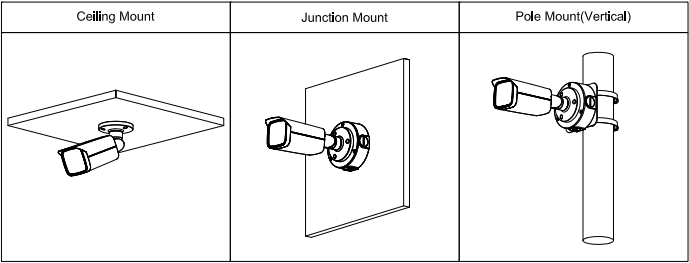
PFM800-4K
Passive HDCVI Balun



PFM320D
12V 2A Power Adapter



PFM904
Integrated Mount Tester



Dimensions (mm[inch])

