

# DH-HAC-HDW1509TLQ-LED

5MP Full-color HDCVI Quick-to-install 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 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 to 1509-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.
- · Max 25 fps@5MP (16:9 video output)
- · 120dB true WDR, 3D NR
- · 24/7 color imaging
- · 20 m illumination distance
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (2.8 mm optional)
- · IP67, 12 V DC
- · Quick-to-install eyeball saves installation time













#### **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.

#### 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.

### **Easy Installation**

HDCVI quick-to-install eyeball adopts quick-to-install pedestal, which can achieve easier installation than conventional eyeball. Quick-to-install camera reduces time and labor costs.

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Technical Specification					Gain Control	Auto; manual	
Camera					Noise Reduction	3D NR	
Image Sensor		5MP CMOS				Smart Light	Yes
Max. Resolution		2880 (H) × 1620 (V)				Mirror	Off/On
Pixel		5MP				Privacy Masking	Off/On (8 areas, rectangle)
Scanning Syste	em	Progressive				Certifications	
Electronic Shu	tter Speed	PAL:1/3 s-1/100,000 s NTSC:1/4 s-1/100,000 s				Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
S/N Ratio		> 65 dB				UL (UL60950-1+CAN/CSA C22.2 No.60950-1)	
Min. Illuminat	on	0.001 Lux/F1.0, 0 Lux warm light on				Port	
Illumination D	istance	20 m (65.61 ft)				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illuminator On	/Off Control	Auto; manual				Audio Input	None
Illuminator Nu	mber	1				Power	
Pan/Tilt/Rotation Range		Pan: 0°–360°				Power Supply	12 V ±30% DC
		Tilt: 0°-78° Rotation: 0°-360°				Power Consumption	Max 4.4 W (12 V DC, warm light on)
Lens						Environment	
Lens Type		Fixed lens				Operating Temperature	-40 °C to +55 °C ( $-40$ °F to +131 °F); < 95% (noncondensation)
Mount Type  Focal Length		M12 2.8 mm; 3.6 mm				Storage Temperature	-40 °C to +55 °C ( $-40$ °F to +131 °F); < 95% (noncondensation)
-		F1.0				Protection Grade	IP67
Max. Aperture		2.8 mm: H: 112°; V: 57°; D: 132°				Structure	
Field of View		3.6 mm: H: 88; V: 46°; D: 104°				Casing	Metal inner core + plastic cover + plastic pedestal
Iris Type		Fixed iris				Camera Dimensions	ф97.1 mm × 91.4 mm (ф3.82" × 3.6")
Close Focus Distance		2.8 mm: 1.6 m (5.25 ft); 3.6 mm: 2.3 m (7.5 ft)				Net Weight	0.24 Kg (0.53 lb)
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Gross Weight	0.37 Kg (0.82 lb)
	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)		
Video							

PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080p@30 fps

5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 ×

1080); 960H (960 × 576/960 × 480)

BLC/HLC/WDR/HLC-Pro

PAL: 4M@25 fps; NTSC: 4M@30 fps

PAL: 4M@25 fps; NTSC: 4M@30 fps

TVI:

CVBS: PAL: 960H;

120 dB

Auto; Area WB

Frame Rate

Resolution

White Balance

BLC

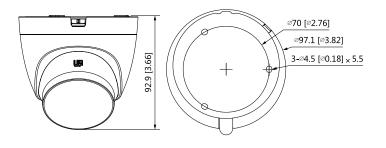
WDR

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Ordering Information								
Туре	Model	Description						
	DH-HAC- HDW1509TLQP-LED	5MP Full-color HDCVI Quick-to-install Eyeball Camera, PAL						
5MP Camera	DH-HAC- HDW1509TLQN-LED	5MP Full-color HDCVI Quick-to-install Eyeball Camera, NTSC						
SIMP Camera								
	PFA13G	Junction Box						
	PFA130-E	Water-proof Junction Box						
	PFB205W	Wall Mount Bracket						
Accessories	PFA109+PFB220C	Mount Adapter + Ceiling Mount Bracket of Mini Dome & Eyeball Camera						
(Optional)	PFA152-E+PFB205W	Pole Mount Bracket + Wall Mount Bracket						
	PFM800-4K	Passive HDCVI Balun						
	PFM321D	12V 1A Power Adapter						
	PFM904	Integrated Mount Tester						

Junction Mount	Wa <b>ll</b> Mount	Ce <b>ili</b> ng Mount
Pole Mount(Vertical)		

## Dimensions (mm[inch])



# Accessories

### **Optional:**



PFA13G Junction box



PFA130-E Water-proof Junction Box



PFB205W Wall Mount Bracket



PFA109+PFB220C Mount Adapter + Ceiling Mount Bracket of Mini Dome & Eyeball Camera



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



PFM800-4K Passive HDCVI Balun





PFM904 Integrated Mount Tester