

DH-HAC-HDW1509TLQ-A-LED

5MP Full-color HDCVI Fixed-focal Eyeball Camera





Series Overview

The Lite Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as fullcolor and starlight, providing various solutions for different scenarios.

Functions

Full-color

With its advanced image processing algorithm and capability to absorb large quantities of light, the camera provides 24/7 color monitoring that collects clear and highly detailed information, significantly increasing the reliability of the human and vehicle images that are collected as evidence for intelligent analysis.

Wide Dynamic Range

With its advanced Wide Dynamic Range technology (WDR), the camera captures highly detailed images and produces high-definition recordings in high-contrast lighting conditions, and in scenes with backlighting or shadows.

Smart Light+

Equipped with advanced LEDs and beam processing technology, the camera effectively reduces interference of stray light, ensuring concentrated illumination within the lens's field of view. This allows the camera to easily produce clear images that reveal the fine details of targets even in low light conditions.

- * The parameters and datasheets below can only be applied to 1509-S3 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)
- Super Adapt, 120 dB true WDR, 3D NR
- 24/7 color imaging
- Smart Light+.
- Built-in Mic.
- 30 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



Broadcast-quality Audio

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

Advanced 3DNR

Dahua's advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

Lite Series | DH-HAC-HDW1509TLQ-A-LED

Technical Specification

Camera

Camera					
Image Sensor1		5 MP CMOS			
Max. Resolution		2880 (H) × 1620 (V)			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/3 s-1/100,000 s; NTSC: 1/4 s-1/100,000 s			
Min. Illumination		0.001 lux@F1.0 (Color, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		30 m (98.43 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		2 (Warm light)			
Angle Adjustment		Pan: 0°—360° Tilt: 0°—78° Rotation: 0°—360°			
Lens					
Lens Type		Fixed-focal			
Auto Focus		No			
Lens Mount		M12			
Focal Length		3.6 mm; 2.8 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 Control		Fixed			
Close Focus Distance		2.8 mm: 1.6 m (5.25 ft) 3.6 mm: 2.3 m (7.55 ft)			
DORI	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	67.4 m (221.13 ft)	27.0 m (88.58 ft)	13.5 m (44.29 ft)	6.7 m (21.98 ft)
	3.6 mm	80.0 m (262.47 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)	8.0 m (26.25 ft)
Distance	*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				

(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

Video Frame Rate	CVI: PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@25 fps; 5M@10 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4M@25 fps NTSC: 4M@30 fps TVI: PAL: 5M 16:9@20 fps; 4M@25 fps NTSC: 5M 16:9@20 fps; 4M@30 fps CVBs: PAL: 960H NTSC: 960H
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Pay/NightCelorBLCBLC, HLC; WDR; HLC-ProBLCBLC, HLC; WDR; HLC-ProWDR120 dBWhite BalanceAuto, Area white balanceGain ControlAuto, ManualNoise Reduction3D NRIlumination ModeElectronic defogDigital Zoom4×MirrorVesPrivacy MaskingOff/On (8 areas, rectangle)CertificationElectronic defogPritificationsElectronic Social SciencesPortElectronic Social SciencesAudioVesPortSciences SciencesPowerSciences of Cul/TU/AHD/CVBS by one BAC RotPowerSciences of Cul/TU/AHD/CVBS by one BAC RotPowerSciences of Cul/TU/AHD/CVBS by one BAC RotPowerSciences of Cul/TU/AHD/CVBS by one BAC RotPower SupplySciences of Cul/TU/AHD/CVBS by one BAC RotPower SupplyScience of Cul/Tu/AHD/CVBS by One Supply </th <th>Resolution</th> <th>5M (2880 × 1620); TVI 5M 16:9 (2960 × 1665); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)</th>	Resolution	5M (2880 × 1620); TVI 5M 16:9 (2960 × 1665); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)
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Net Weight 0.24 kg (0.53 lb) Gross Weight 0.37 kg (0.82 lb)	Casing Material	Dome (metal + plastic) + plastic enclosure
Gross Weight 0.37 kg (0.82 lb)	Product Dimensions	Φ 97.1 mm × 94.2 mm (Φ 3.82" × 3.71")
-	Net Weight	0.24 kg (0.53 lb)
Installation Wall mount; ceiling mount; vertical pole mount	Gross Weight	0.37 kg (0.82 lb)
	Installation	Wall mount; ceiling mount; vertical pole mount

Lite Series | DH-HAC-HDW1509TLQ-A-LED

Ordering Information

Туре	Model	Description
HDCVI CAMERA	DH-HAC-HDW1509TLQP-A- LED	5MP Full-color HDCVI Fixed- focal Eyeball Camera, PAL
HDEVI CAMERA	DH-HAC-HDW1509TLQN-A- LED	5MP Full-color HDCVI Fixed- focal Eyeball Camera, NTSC
	DH-PFA106	Mount Adapter
	DH-PFB220C	Ceiling Mount Bracket
	DH-PFA151	Corner mount bracket
	DH-PFB305W	Wall mount bracket
	DH-PFA150	Pole Mount Bracket
	DH-PFB205W-E	Wall Mount Bracket
Accessories (Optional)	DH-PFA152-E	Pole Mount Bracket
	DH-PFA13G	Junction box
	DH-PFM800-4K	1 Channel Passive HDCVI Balun
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM321D-EN	DC12V 1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM904	Integrated Mount Tester

DH-PFB220C

Ceiling Mount Bracket

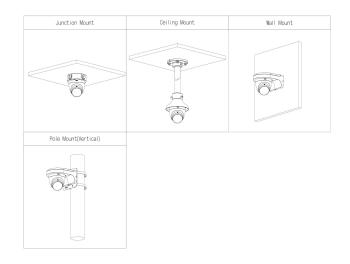
DH-PFA150

Pole Mount Bracket

DH-PFA13G

Junction box

DH-PFM321D-EN



Dimensions (mm[inch])

Accessories

Optional:



DH-PFA106 Mount Adapter



DH-PFB305W Wall mount bracket



DH-PFA152-E Pole Mount Bracket



DH-PFM321-EN



DC12V1A power adapter



PFM904

Integrated Mount Tester

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DH-PFA151 Corner mount bracket



DH-PFB205W-E Wall Mount Bracket



DH-PFM800-4K 1 Channel Passive HDCVI Balun



DH-PFM320D-EN DC12V 1A power adapter DC12V2A power adapter

