

DH-HAC-HDW1209CLQ(-A)-LED

2MP Full-color HDCVI Eyeball Camera



System 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 full-color 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.

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.

Smart Warm Light Illumination

In dark environments, the camera produces vivid images in rich color through its warm LED lights. With its smart light mode setting, it automatically adjusts its exposure time and light sensitivity to avoid the overexposure of objects in the center of the image.

- * The parameters and datasheets below can only be applied to 1209-S2 series.
- Max. 30 fps@1080p.
- · 24/7 color imaging.
- 20 m illumination distance.
- · Super Adapt.
- · Built-in MIC (-A).
- Quick-to-install eyeball saves installation time.
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.











Protection (IP67, Wide Voltage)

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes. Wide voltage: The camera has $\pm 30\%$ input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

* Audio input is available for select HDCVI camera models.

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Technical Specification							Privacy Masking	Off/On (8 areas, rectangle)
Camera							Certification	
Pixel		2 MP				Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035	
Image Sensor		2MP CMOS					Certifications	FCC: 47 CFR FCC Part 15, Subpart B
Max. Resolution		1920 (H) × 1080 (V)					Port	
Scanning System		Progressive					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Electronic Sh	Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s				Audio Input	One channel built-in MIC (-A)
Min. Illumination		0.005 lux@F1.6 (Color) 0 lux (Illuminator on)					Power	
S/N Ratio		>65 dB					Power Supply	12 VDC ± 30%
Illumination Distance		20 m (65.62 ft)					Power Consumption	Max 3.3 W (12 V DC, LED on)
Illuminator On/Off Control		Auto/Manual					Environment	
Illuminator N	Illuminator Number		2 (Warm light)				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
D /Til+ /D - +			Pan: 0°–360°				Operating Humidity	<95% (RH), non-condensing
Pan/Tilt/Rot	Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Lens						Protection	IP67	
Lens Type		Fixed-focal					Structure	
Lens Mount		M12					Casing Material	Plastic
Focal Length		2.8 mm; 3.6 mm					Product Dimensions	Φ97.1 mm × 93.8 mm (Φ3.82" × 3.69")
Max. Aperture		F1.6					Packaging Dimensions	121mm × 118mm × 109 mm (4.76" × 4.65" × 4.29")
Field of View		2.8 mm: H: 108°; V: 58°; D: 127° 3.6 mm: H: 84°; V: 43°; D: 102°					Net Weight	0.17 kg (0.37 lb)
Iris Control		Fixed					Gross Weight	0.28 kg (0.62 lb)
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.3 m (4.27 ft)					Installation	Wall mount; ceiling mount; vertical pole mount
DORI Distance	Lens	Detect	Observe	Recognize	Identify			
	2.8 mm	42.2 m (138.45 ft)	16.9 m (55.45 ft)	8.4 m (27.56 ft)	4.2 m (13.78 ft)			
	3.6 mm	59.0 m (193.57 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.36 ft)			

Video

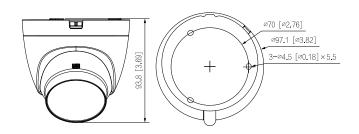
Video Frame Rate	CVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps CVBS: PAL: 960H; NTSC: 960H				
Resolution	1080P (1920 × 1080); 960H (960 × 576/960 × 480)				
Day/Night	Color				
BLC	BLC; HLC; DWDR;				
WDR	DWDR				
White Balance	Auto; Area white balance				
Gain Control	Auto				
Noise Reduction	3D NR				
Illumination Mode	Smart Light				
Mirror	Yes				

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Ordering Information							
Туре	Part Number	Description					
	DH-HAC-HDW- 1209CLQP-LED	2MP Full-color HDCVI Eyeball Camera, PAL					
2MP Camera	DH-HAC-HDW- 1209CLQN-LED	2MP Full-color HDCVI Eyeball Camera, NTSC					
ZIVIP Camera	DH-HAC-HDW- 1209CLQP-A-LED	2MP Full-color HDCVI Eyeball Camera, PAL					
	DH-HAC-HDW- 1209CLQN-A-LED	2MP Full-color HDCVI Eyeball Camera, NTSC					
	PFA13G	Junction Box					
	PFA130-E	Water-proof Junction Box					
	PFB205W-E	Wall Mount Bracket					
	PFA109	Mount Adapter					
Accessories (Optional)	PFB220C	Ceiling Mount Bracket					
	PFA152-E	Pole Mount Bracket					
	PFM800-E	1 Channel Passive HDCVI Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					

Junction Mount Ceiling Mount Wall Mount Pole Mount(Vertical)

Dimensions (mm[inch])



Accessories

Optional:



PFA13G Junction Box



PFA130-E Water-proof Junction Box



PFB205W-E Wall Mount Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFM800-E 1 Channel Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester