

DH-HAC-HDW1209TLM-IL-A

2MP Smart Dual Light 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 full-color and starlight, providing various solutions for different scenarios.

Functions

Smart Dual Light

With its smart dual light mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in the rule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR light to significantly reduce light pollution.

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.

- * The parameters and datasheets below can only be applied to 1209-IL-S3 series
- * In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.000004.1.R.220323 or later version.
- Max. 30 fps@1080p.
- 3D NR.
- Smart Dual Light.
- · 20 m illumination distance.
- · Super Adapt.
- · Built-in Mic.
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.













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.

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					
Camera					
Image Sensor		2 MP CMOS			
Max. Resolution		1920 (H) x 1080 (V)			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s			
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		20 m (65.62 ft)			
Illuminator On/Off Control		Auto;Manual			
Illuminator Number		1 (Multi-core light)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture		F1.6			
Field of View		2.8 mm: H: 108°; V: 58°; D: 127° 3.6 mm: H: 86°; V: 47°; D: 100°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.0 m (3.28 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	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	53.7 m (176.18 ft)	21.5 m (70.54 ft)	10.7 m (35.10 ft)	5.4 m (17.72 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.				

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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 x 1080); 960H (960 x 576/960 x 480)	
Day/Night	Auto(ICR)/Color/B/W	

BLC	BLC; HLC; WDR	
WDR	DWDR	
White Balance	Auto;Area white balance	
Gain Control	Manual;Auto	
Noise Reduction	3D NR	
Illumination Mode	Smart IR&WL WL Mode; IR Mode	
Mirror	Yes	
Privacy Masking	Off/On (8 areas, rectangle)	
Certification		
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;	
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 VDC ± 30%	
Power Consumption	Max 2.4 W (12 VDC, LED on)	
Environment		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	<95% (RH), non-condensing	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Storage Humidity	<95% (RH), non-condensing	
Protection	IP67	
Anti-corrosion Level	Basic Protection	
Structure		
Casing Material	Metal	
Product Dimensions	Ф94.0 mm х 85.7 mm (Ф3.70" х 3.37")	
Net Weight	0.31 kg (0.68 lb)	
Gross Weight	0.43 kg (0.95 lb)	
Installation	Wall mount; ceiling mount; vertical pole mount	

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Ordering Information					
Туре	Model	Description			
HDCVI CAMERA	DH-HAC-HDW1209TLMP-IL-A	2MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera, PAL			
HDCVI CAIVIERA	DH-HAC-HDW1209TLMN-IL-A	2MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera, NTSC			
	DH-PFB220C	Ceiling Mount Bracket			
	DH-PFA106	Mount Adapter			
	DH-PFB305W	Wall mount bracket			
	DH-PFA151	Corner mount bracket			
	DH-PFA150	Pole Mount Bracket			
	DH-PFA152-E	Pole Mount Bracket			
Accessories (Optional)	DH-PFB204W	Wall mount bracket			
	DH-PFA13A-E	Anti-corrosion Junction box			
	DH-PFM321-EN	DC12V1A power adapter			
	DH-PFM321D-EN	DC12V 1A power adapter			
	DH-PFM320D-EN	DC12V2A power adapter			
	DH-PFM800-E	1 Channel Passive HDCVI Balun			
	PFM904	Integrated Mount Tester			

Accessories

Optional:



DH-PFB220C Ceiling Mount Bracket







DH-PFA106

DH-PFA150 Pole Mount Bracket





DH-PFB305W Wall mount bracket





DH-PFA152-E Pole Mount Bracket



DH-PFA13A-E



DH-PFM800-E

Wall mount bracket Anti-corrosion Junction box 1 Channel Passive HDCVI Balun



DH-PFB204W

DH-PFM321-EN DC12V1A power adapter



DH-PFM321D-EN DC12V 1A power adapter DC12V2A power adapter



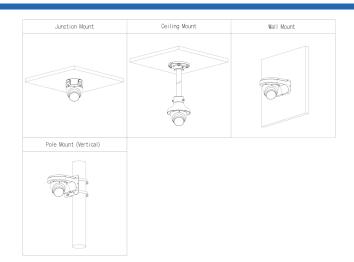
DH-PFM320D-EN



PFM904

Integrated Mount Tester

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Dimensions (mm[inch])

mm [inch]

