

DH-HAC-HDW1239T-IL-A

2MP Smart Dual Light 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 colorful 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.

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.

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.

- * The parameters and datasheets below can only be applied to1239-IL series. * In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to
- In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.
- Smart Dual Light.
- Max. 30 fps@1080p.
- 40 m illumination distance.
- Super Adapt.
- 130 dB true WDR, 3D NR.
- Built-in MIC (-A).
- 3.6 mm fixed lens (2.8 mm optional).
- CVI/CVBS/AHD/TVI switchable.

• IP67, 12 VDC.



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.

Protection

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.

Long Distance Transmission

HDCVI technology provides long distance transmission in real-time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's test laboratory.

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Technical Specification

Camera

Camera					
Pixel		2 MP			
Image Sensor		2 MP CMOS			
Max. Resolution		1920 (H) × 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		0.001 lux@F1.6 (Color, 30 IRE) 0.0001 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		IR: 40 m (131.23 ft) Warm light: 40 m (131.23 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		2 (IR light)			
		2 (Warm light)			
Pan/Tilt/Rotation Range		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: 107°; V: 56°; D: 127°			
		3.6 mm: H: 86°; V: 46°; D: 101°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.7 m (2.29 ft)			
		3.6 mm: 1.1 m (3.61 ft)			
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	53.7 m (176.18 ft)	21.5 m (70.54 ft)	10.7 m (35.10 ft)	5.4 m (17.72 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@25 fps; CVBS:			

CVBS: PAL: 960 × 576H; NTSC: 960 × 480H

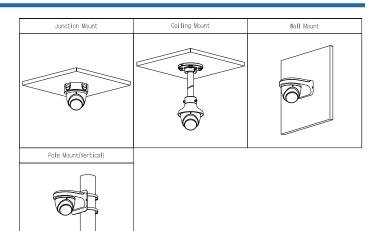
Resolution

1080p (1920 × 1080); 960H (960 × 576/960 × 480)

Day/Night	Auto (ICR)/Color/B/W	
BLC	BLC; HLC; WDR	
WDR	130 dB	
White Balance	Auto; Area white balance	
Gain Control	Auto/Manual	
Noise Reduction	3D NR	
Smart Illumination	Yes	
Mirror	Off/On	
Privacy Masking	Off/On (8 areas, rectangle)	
Illuminator	Smart IR&WL WL Mode; IR Mode	
Certification		
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14	
Port		
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Audio Input	One channel built-in MIC (-A)	
Power		
Power Supply	12 VDC ± 30%	
Power Consumption	Max 4.0 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)	
Protection	IP67	
Structure		
Casing Material	Metal	
Product Dimensions	Φ106.0 mm × 93.6 mm (Φ4.17" × 3.69")	
Packaging Dimensions	148 mm × 139 mm × 137 mm (5.83" × 5.47" × 5.39")	
Net Weight	0.46 kg (1.01 lb)	
Gross Weight	0.64 kg (1.41 lb)	
Installation	Wall mount; ceiling mount; vertical pole mount	

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Ordering Information					
Part Number	Description				
DH-HAC-HDW1239TP- L-A	2MP Smart Dual Light Eyeball Camera, PAL				
DH-HAC-HDW1239TN- L-A	2MP Smart Dual Light Eyeball Camera, NTSC				
PFA130-E	Water-proof Junction Box				
PFB204W	Wall Mount Bracket				
PFA106 + PFB220C	Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera				
PFA152-E + PFB204W	Pole Mount Bracket + Wall Mount Bracket				
PFM800-E	Passive HDCVI Balun				
PFM321D	12V 1A Power Adapter				
PFM904	Integrated Mount Tester				
	art Number H-HAC-HDW1239TPA H-HAC-HDW1239TNA FA130-E FB204W FA106 + PFB220C FA152-E + PFB204W FM800-E FM321D				



Dimensions (mm[inch])

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFA152-E + PFB204W Pole Mount Bracket + Wall Mount Bracket



PFM904 Integrated Mount Tester

PFB204W

Wall Mount

Bracket

PFM800-E

Passive HDCVI

Balun



PFA106 + PFB220C Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera



PFM321D 12V 1A Power Adapter

