

DH-HAC-HDW1239TLQ-IL-A

2MP Smart Dual Light HDCVI Fixed-focal 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

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 therule 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 illuminator to significantly reduce light pollution.

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.

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.

- * The parameters and datasheets below can only be applied to 1239-IL series.
 * In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.202323 or later version.
- Max. 30 fps@1080p.
- · 130 dB true WDR, 3D NR.
- · Smart Dual Light.
- 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 ±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.

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.

^{*} Audio input is available for select HDCVI camera models.

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PAL: 1080p@25 fps; NTSC: 1080p@30 fps;

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Auto(ICR)/Color/B/W

Auto; Area white balance

BLC; HLC; WDR

130 dB

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

AHD:

TVI:

CVBS: PAL: 960H; NTSC: 960H;

Video Frame Rate

Resolution

Day/Night BLC

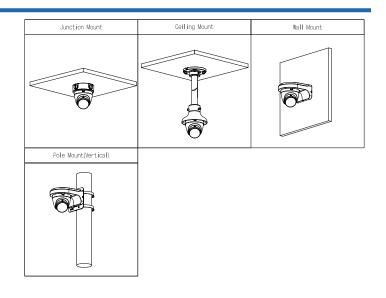
WDR

White Balance

Technical Specification							Gain Control	Auto/Manual	
Camera							Noise Reduction	3D NR	
Image Sensor		2 MP CMOS					Illumination Mode	Smart IR&WL WL Mode; IR Mode	
Max. Resolution		1920 (H) × 1080 (V)					Mirror	Yes	
Scanning System		Progressive					Privacy Masking	Off/On (8 areas, rectangle)	
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s					Certification		
Min. Illumination		0.001 lux@F1.6 (Color, 30IRE) 0.0001 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)	
S/N Ratio		>65 dB					Port		
Illumination Distance		IR: 20 m (65.62 ft) Warm light: 20 m (65.62 ft)					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Illuminator On/Off Control		Auto/Manual					Audio Input	One channel built-in MIC (-A)	
Illuminator Number		1 (Warm light); 1 (IR light)					Power		
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Power Supply	12 VDC ± 30%	
							Power Consumption	Max 2.7 W (12 VDC, IR on)	
Lens							Environment		
Lens Type		Fixed-focal					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Auto Focus		No					Operating Humidity	< 95% (RH), non-condensing	
Lens Mount		M12					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Focal Length		2.8 mm; 3.6 mm					Storage Humidity	< 95% (RH), non-condensing	
Max. Aperture		F1.6					Protection	IP67	
Field of View		2.8 mm: H: 108°; V: 58°; D: 127° 3.6 mm: H: 86°; V: 46°; D: 101°					Structure		
Iris Control		Fixed					Casing Material	Dome (metal + plastic) + plastic enclosure	
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft)					Product Dimensions	Ф97.1 mm × 92.9 mm (Ф3.82" × 3.66")	
DORI Distance		3.6 mm: 1.1 r					Net Weight	0.23 kg (0.51 lb)	
	Lens	Detect 42.2 m	Observe 16.9 m	Recognize 8.4 m	Identify 4.2 m		Gross Weight	0.34 kg (0.75 lb)	
	2.8 mm	(138.45 ft)	(55.45 ft)	(27.56 ft)	(13.78 ft)		Installation	Wall mount; ceiling mount; vertical pole mount	
	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									

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Ordering Information							
Туре	Part Number	Description					
2MP Camera	DH-HAC-HD- W1239TLQP-IL-A	2MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera, PAL					
ZIVIP Calliela	DH-HAC-HD- W1239TLQN-IL-A	2MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera, NTSC					
	PFA13G	Junction box					
	PFB205W-E	Wall Mount Bracket					
	PFA152-E	Pole Mount Bracket					
Accessories	PFA109	Mount Adapter					
(Optional)	PFB220C	Ceiling Mount Bracket					
	PFM800-E	1 Channel Passive HDCVI Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					



Dimensions (mm[inch])

Accessories

Optional:



PFA13G Junction Box



PFA109 Mount Adapter



PFM321D 12V 1A Power Adapter



PFB205W-E Wall Mount Bracket



PFB220C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFM800-E 1 Channel Passive HDCVI Balun



PFM904 Integrated Mount Tester

