

# DH-HAC-HDW1239TLQ-LED

## 2MP 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 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.

#### 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 1239-S3 series.

- 24/7 color imaging, Max. 30 fps@1080p.
- Smart Light+.
- 30 m illumination distance.
- Super Adapt, 130 dB true WDR, 3D NR.
- Quick-to-install eyeball saves installation time.
- 3.6 mm fixed lens (2.8 mm optional).
- CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.



### Easy Installation

HDCVI eyeball comes with a quick-to-install pedestal, which makes it easier to install than conventional eyeballs and reduces cost on time and labor.

### 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.

### 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.

### Technical Specification

#### Camera

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@F1.0 (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
Lens Mount	M12
Focal Length	3.6 mm; 2.8 mm
Max. Aperture	F1.0
Field of View	2.8 mm: H: 101°; V: 53.4°; D: 119.5° 3.6 mm: H: 81.5°; V: 44.3°; D: 95.7°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (5.58 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	47.1 m (154.53 ft)	18.9 m (62.01 ft)	9.4 m (30.84 ft)	4.7 m (15.42 ft)
	3.6 mm	55.7 m (182.74 ft)	22.3 m (73.16 ft)	11.1 m (36.42 ft)	5.6 m (18.37 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.

#### 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; WDR
WDR	130 dB
White Balance	Auto;Area white balance
Gain Control	Manual;Auto
Noise Reduction	3D NR

Illumination Mode	Smart Light
Mirror	Yes
Privacy Masking	Off/On (8 areas, rectangle)

#### Certification

Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;
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#### Port

Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
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#### Power

Power Supply	12 VDC ± 30%
Power Consumption	Max 5.94 W (12 VDC, LED on)

#### Environment

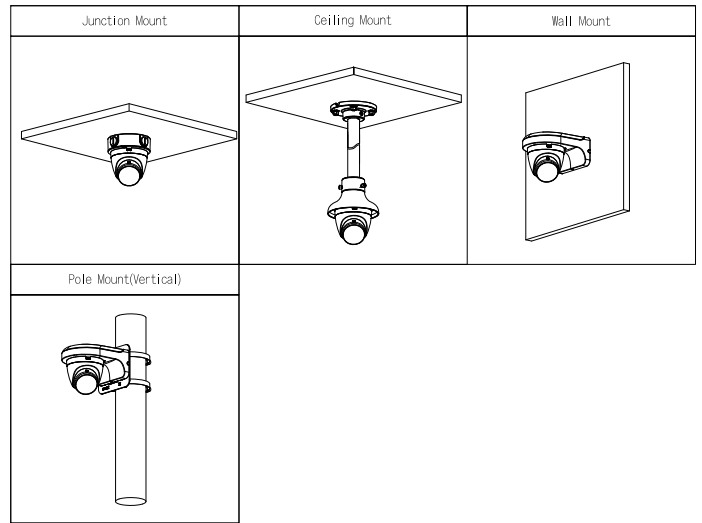
Operating Temperature	–40 °C to +60 °C (–40 °F to +140 °F)
Operating Humidity	<95% (RH), non-condensing
Storage Temperature	–40 °C to +60 °C (–40 °F to +140 °F)
Storage Humidity	<95% (RH), non-condensing
Protection	IP67
Anti-corrosion Level	Basic Protection

#### Structure

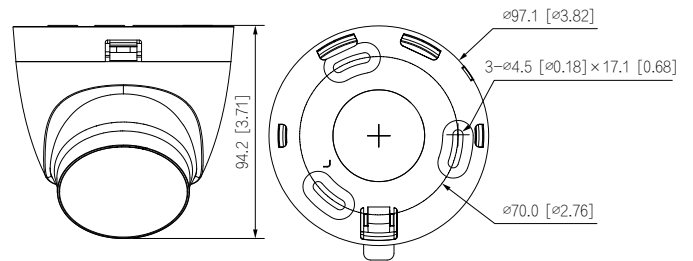
Casing Material	Dome (metal + plastic) + plastic enclosure
Product Dimensions	Φ97.1 mm × 94.2 mm (Φ3.82" × 3.71")
Net Weight	0.22 kg (0.49 lb)
Gross Weight	0.31 kg (0.68 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

**Ordering Information**

Type	Model	Description
HDCVI CAMERA	DH-HAC-HDW1239TLQP-LED	2MP Full-color HDCVI Fixed-focal Eyeball Camera, PAL
	DH-HAC-HDW1239TLQN-LED	2MP Full-color HDCVI Fixed-focal Eyeball Camera, NTSC
Accessories (Optional)	DH-PFA106	Mount Adapter
	DH-PFB220C	Ceiling Mount Bracket
	DH-PFB305W	Wall Mount Bracket
	DH-PFA151	Corner Mount Bracket
	DH-PFA150	Pole Mount Bracket
	DH-PFB205W-E	Wall Mount Bracket
	DH-PFA152-E	Pole Mount Bracket
	DH-PFA13G	Junction Box
	DH-PFM800-E	1 Channel Passive HDCVI Balun
	DH-PFM321-EN	DC12V 1A Power Adapter
	DH-PFM321D-EN	DC12V 1A Power Adapter
	DH-PFM320D-EN	DC12V 2A Power Adapter
	PFM904	Integrated Mount Tester



**Dimensions (mm[inch])**



**Accessories**

Optional:



DH-PFA106  
Mount Adapter



DH-PFB220C  
Ceiling Mount Bracket



DH-PFB305W  
Wall Mount Bracket



DH-PFA151  
Corner Mount Bracket



DH-PFA150  
Pole Mount Bracket



DH-PFB205W-E  
Wall Mount Bracket



DH-PFA152-E  
Pole Mount Bracket



DH-PFA13G  
Junction Box



DH-PFM800-E  
1 Channel Passive HDCVI  
Balun



DH-PFM321-EN  
DC12V 1A Power  
Adapter



DH-PFM321D-EN  
DC12V 1A Power  
Adapter



DH-PFM320D-EN  
DC12V 2A Power  
Adapter



PFM904  
Integrated Mount Tester