

# DH-HAC-HFW1239TU-Z-A-LED

2MP Full-color HDCVI Motorized Vari-Focal Bullet 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.

### 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-S3 series.

- Max. 30 fps@1080p.
- 130 dB true WDR, 3D NR.
- 24/7 color imaging
- Smart Warm Light Illumination.
- 60 m illumination distance.
- Super Adapt.
- Built-in Mic.
- Auto focus, 2.7 mm–13.5 mm motorized lens.
- CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.



### 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.

### 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.

### 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	60 m (196.85 ft)
Illuminator On/Off Control	Auto;Manual
Illuminator Number	4 (Warm light)
Angle Adjustment	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°

#### Lens

Lens Type	Motorized vari-focal
Auto Focus	Yes
Lens Mount	φ16
Focal Length	2.7 mm–13.5 mm
Max. Aperture	F1.0
Field of View	H: 103°–33°; V: 54°–18°; D: 124°–38°
Iris Control	Fixed
Close Focus Distance	1.5 m (4.92 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	46.6 m (152.89 ft)	18.6 m (61.02 ft)	9.3 m (30.51 ft)	4.7 m (15.42 ft)
	T	133.3 m (437.34 ft)	53.3 m (174.87 ft)	26.7 m (87.60 ft)	13.3 m (43.64 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;
----------------	--

#### 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 8.4 W (12 VDC,LED on)

#### Environment

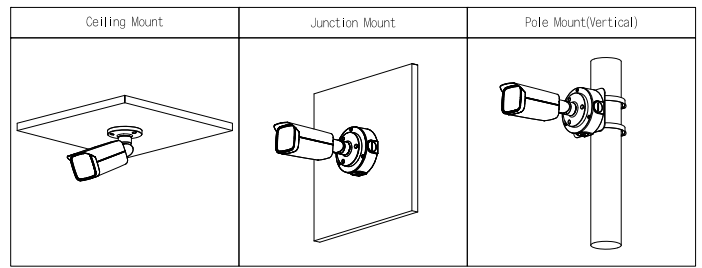
Operating Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Operating Humidity	<95% (RH), non-condensing
Storage Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Storage Humidity	<95% (RH), non-condensing
Protection	IP67
Anti-corrosion Level	Basic Protection

#### Structure

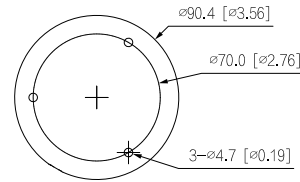
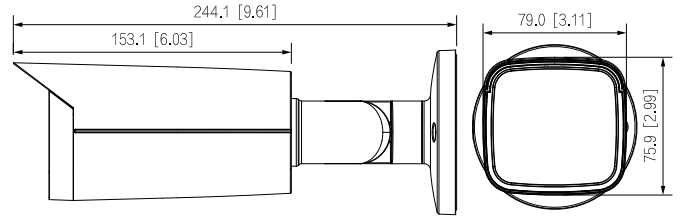
Casing Material	Metal
Product Dimensions	244.1 mm × 90.4 mm × 90.4 mm (9.61" × 3.56" × 3.56")
Net Weight	0.77 kg (1.70 lb)
Gross Weight	1.05 kg (2.31 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

**Ordering Information**

Type	Model	Description
HDCVI CAMERA	DH-HAC-HFW1239TUP-Z-A-LED	2MP Full-color HDCVI Motorized Vari-Focal Bullet Camera, PAL
	DH-HAC-HFW1239TUN-Z-A-LED	2MP Full-color HDCVI Motorized Vari-Focal Bullet Camera, NTSC
Accessories (Optional)	DH-PFA151	Corner Mount Bracket
	DH-PFA130-E	Water-proof Junction Box
	DH-PFA152-E	Pole Mount Bracket
	DH-PFA135	Junction Box
	DH-PFM800-E	1 Channel Passive HDCVI Balun
	DH-PFM321-EN	DC12V1A Power Adapter
	DH-PFM321D-EN	DC12V 1A Power Adapter
	DH-PFM320D-EN	DC12V2A Power Adapter
PFM904	Integrated Mount Tester	



**Dimensions (mm[inch])**



**Accessories**

Optional:



DH-PFA151  
Corner Mount Bracket



DH-PFA130-E  
Water-proof Junction Box



DH-PFA152-E  
Pole Mount Bracket



DH-PFA135  
Junction Box



DH-PFM800-E  
1 Channel Passive HDCVI  
Balun



DH-PFM321-EN  
DC12V 1A Power  
Adapter



DH-PFM321D-EN  
12V 1A Power  
Adapter



DH-PFM320D-EN  
DC12V 2A Power  
Adapter



PFM904  
Integrated Mount Tester