

DH-HAC-HDW1239T(-A)-LED

2MP Full-color HDCVI Eyeball Camera



* The parameters and datasheets below can only be applied to 1239-S2 series.

- 24/7 color imaging, 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, DC 12 V



System Overview

Lite Series is suitable for users who requires high quality monitoring products at a reasonable price. It is cost effective and offers high performance, which makes it an ideal choice for residential and small-medium business applications. This series offers an option of a wide range of technologies such as Full-color and Starlight, providing various solutions for different scenarios.

Functions

Full-color

Full-color camera adopts large aperture lens and high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera provides 24/7 color monitoring that collects clear and vivid information, significantly increasing probability of gathering valid human, vehicle, and event evidence that can be used for further intelligent analysis.

Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

Wide Dynamic Range

With advanced Wide Dynamic Range (WDR) technology, Dahua HDCVI camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Super Adapt

Embedded with intelligent algorithm, for changing external environment, camera can automatically adjust parameters to present the optimal image, and it solves the trouble of configuration.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

Warm Supplemental lights

With warm supplemental LED lights, the camera is able to provide a colorful and vivid image even in total darkness. By default, the camera is set to smart light mode, in which the camera can automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposure of the objects in the image center.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the XVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700m transmission for 2MP/5MP/8MP HD video via coaxial cable, and up to 300m via UTP cable.

*Actual results verified by real-scene testing in Dahua's test laboratory.

Protection (IP67, wide voltage)

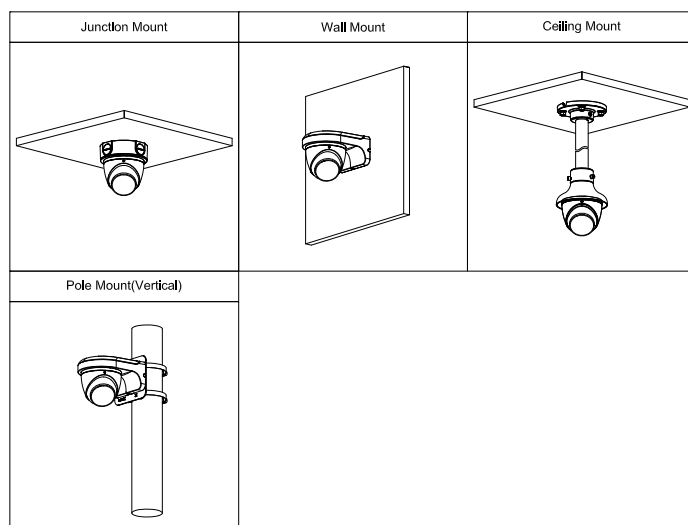
IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

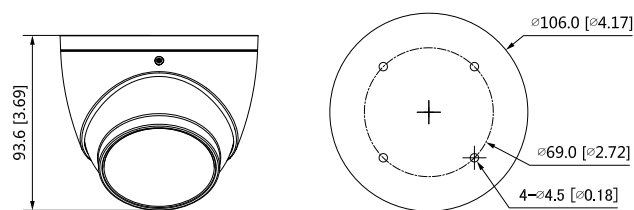
Technical Specification						Gain Control		Auto; manual							
Camera								Noise Reduction		3D NR					
Image Sensor		1/2.8" CMOS													
Max. Resolution		1920 (H) × 1080 (V)													
Pixel		2MP													
Scanning System		Progressive													
Electronic Shutter Speed		PAL: 1/25 s–1/100,000 s NTSC: 1/30 s–1/100,000 s													
S/N Ratio		> 65 dB													
Min. Illumination		0.001 Lux/F1.6, 30IRE, 0 Lux LED on													
Illumination Distance		40 m (131.2 ft)													
Illuminator On/Off Control		Auto; manual													
Illuminator Number		2													
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°													
Lens												Port			
Lens Type		Fixed lens										Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Mount Type		M12										Audio Input		One channel built-in mic (-A)	
Focal Length		2.8 mm; 3.6 mm										Power			
Max. Aperture		F1.6										Power Supply		12 V ±30% DC	
Field of View		2.8 mm: H: 107°; V: 56°; D: 127° 3.6 mm: H: 86°; V: 46°; D: 101°										Power Consumption		Max 5.1 W (12 V DC, LED on)	
Iris Type		Fixed iris										Environment			
Close Focus Distance		2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.1 m (3.6 ft)										Operating Temperature		–40 °C to +60 °C (–40 °F to 140 °F); < 95% (non-condensation)	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Storage Temperature		–40 °C to +60 °C (–40 °F to 140 °F); < 95% (non-condensation)		Protection Grade		IP67			
	2.8 mm	43.9 m (144 ft)	17.5 m (57.4 ft)	8.8 m (28.9 ft)	4.4 m (14.4 ft)	Structure				Casing		Metal throughout the whole casing			
	3.6 mm	53.7 m (176.2 ft)	21.5 m (70.5 ft)	10.7 m (35.1 ft)	5.4 m (17.7 ft)	Camera Dimensions		φ106.0 mm × 93.6 mm (φ4.17" × 3.69")		Net Weight		0.46 kg (1.01 lb)			
						Gross Weight		0.58kg (1.28 lb)							
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: 960 × 576H; NTSC: 960 × 480H													
Resolution		1080p (1920 × 1080); 960H (960 × 576/960 × 480)													
BLC		BLC/WDR/HLC													
WDR		130 dB													
White Balance		Auto; Area WB													

Ordering Information

Type	Model	Description
2MP Camera	DH-HAC-HDW1239TP-LED	2MP Full-color HDCVI Eyeball Camera, PAL
	DH-HAC-HDW1239TN-LED	2MP Full-color HDCVI Eyeball Camera, NTSC
	DH-HAC-HDW1239TP-A-LED	2MP Full-color HDCVI Eyeball Camera, PAL
	DH-HAC-HDW1239TN-A-LED	2MP Full-color HDCVI Eyeball Camera, NTSC
Accessories (Optional)	PFA139	Junction box
	PFA130-E	Water-proof Junction Box
	PFB205W	Wall Mount Bracket
	PFA106+PFB220C	Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera
	PFA152-E+PFB205W	Pole Mount Bracket + Wall Mount Bracket
	PFM800-E	Passive HDCVI Balun
	PFM321D	12 V 1A Power Adapter
	PFM820	UTC Controller
	PFM904	Integrated Mount Tester



Dimensions (mm [inch])



Accessories

Optional:



PFA139
Junction box



PFA130-E
Water-proof Junction Box



PFB205W
Wall Mount Bracket



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



PFA152-E+PFB205W
Pole Mount Bracket + Wall
Mount Bracket



PFM800-E
Passive HDCVI Balun



PFM321D
12V 1A Power Adapter



PFM820
UTC Controller



PFM904
Integrated Mount Tester