

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 coloful 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 overexposureing 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.

Lite Series | DH-HAC-HDW1239T(-A)-LED

Technical Specification					Gain Control	Auto; manual	
Camera						Noise Reduction	3D NR
Image Sensor		1/2.8" CMOS				Smart Light	Yes
Max. Resolution		1920 (H) × 1080 (V)				Mirror	Off/On
Pixel		2MP				Privacy Masking	Off/On (8 area, rectangle)
Scanning System		Progressive				Certifications	
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
S/N Ratio		> 65 dB				Doub	UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Min. Illumination		0.001 Lux/F1.6, 30IRE, 0 Lux LED on				Port Video output choices of CVI/TVI/AHD/CVBS by one	
Illumination Distance		40 m (131.2 ft)				Video Output	BNC port
Illuminator On/Off Control		Auto; manual				Audio Input	One channel built-in mic (-A)
Illuminator Number		2				Power	
Dan/Tilt/Data	tion Dange	Pan: 0°-360°				Power Supply	12 V ±30% DC
Pan/Tilt/Rota	tion Kange	Tilt: 0°–78° Rotation: 0°–360°				Power Consumption	Max 5.1 W (12 V DC, LED on)
Lens						Environment	
Lens Type		Fixed lens				Operating Temperature	-40°C to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}$); < 95% (noncondensation)
Mount Type		M12 2.8 mm; 3.6 mm				Storage Temperature	-40°C to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}$); < 95% (noncondensation)
Focal Length		F1.6				Protection Grade	IP67
Max. Aperture		2.8 mm: H: 107°; V: 56°; D: 127°				Structure	
Field of View		3.6 mm: H: 86°; V: 46°; D: 101°				Casing	Metal throughout the whole casing
Iris Type		Fixed iris				Camera Dimensions	ф106.0 mm × 93.6 mm (ф4.17" × 3.69")
Close Focus Distance		2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.1 m (3.6 ft)				Net Weight	0.46 kg (1.01 lb)
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Gross Weight	0.58kg (1.28 lb)
	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)		
	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)		

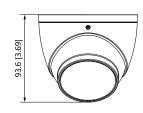
Video

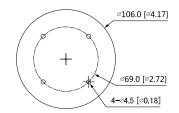
	CVI:		
	PAL: 1080p@25 fps;		
	NTSC: 1080p@30 fps;		
	AHD:		
	PAL: 1080p@25 fps;		
Frame Rate	NTSC: 1080p@30 fps;		
riallie Rate	TVI:		
	PAL: 1080p@25 fps;		
	NTSC: 1080p@30 fps;		
	CVBS:		
	PAL: 960 × 576H;		
	NTSC: 960 × 480H		
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)		
BLC	BLC/WDR/HLC		
WDR	130 dB		
White Balance	Auto; Area WB		

Ordering Information							
Туре	Model	Description					
	DH-HAC-HDW1239TP- LED	2MP Full-color HDCVI Eyeball Camera, PAL					
2MP Camera	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					
	PFA139	Junction box					
	PFA130-E	Water-proof Junction Box					
	PFB205W	Wall Mount Bracket					
Accessories	PFA106+PFB220C	Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera					
(Optional)	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					

Junction Mount	Wa ll Mount	Ceiling Mount
Pole Mount(Vertical)		

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