

DH-HAC-HDW1231TLMQ(-A)

2MP Starlight HDCVI IR Quick-to-install Eyeball Camera



- Max 30 fps@1080p
- Starlight, 130 dB true WDR, 3D NR
- 3.6 mm fixed lens (2.8 mm optional)
- CVI/CVBS/AHD/TVI switchable
- Super Adapt
- Built-in mic(-A)
- Max. IR length 30m, Smart IR
- IP67, DC 12 V
- Quick-to-install saves installation time



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

Starlight

With the adoption of large sized high performance sensor and large aperture lens, the camera is able to provide incomparable performance even under extreme lowlight environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

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.

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

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.

Smart Illumination

The camera is designed with IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

Easy Installation

HDCVI quick-to-install eyeball adopts quick-to-install pedestal, which can achieve easier installation than conventional eyeball. Quick-to-install camera reduces time and labor costs.

Protection (IP67, wide voltage)

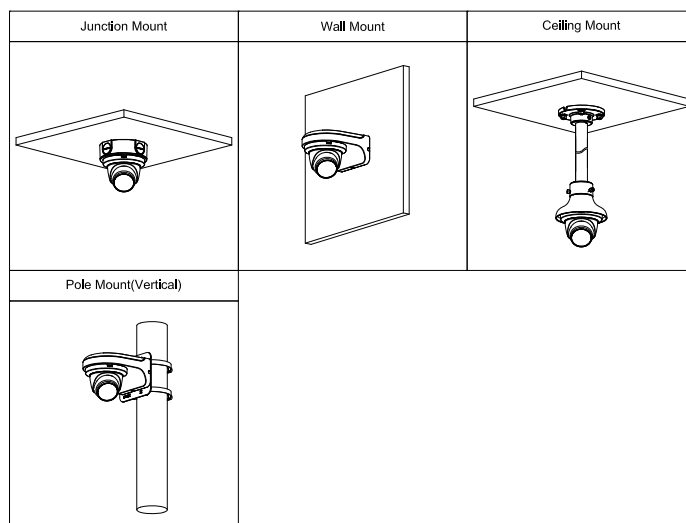
IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

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.

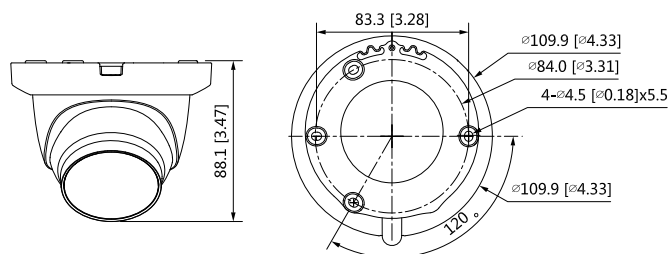
Technical Specification						White Balance		Auto; Area WB	
Camera						Gain Control		Auto; manual	
Image Sensor		1/2.8" CMOS				Noise Reduction		3D NR	
Max. Resolution		1920 (H) × 1080 (V)				Smart IR		Yes	
Pixel		2MP				Mirror		Off/On	
Scanning System		Progressive				Privacy Masking		Off/On (8 area, rectangle)	
Electronic Shutter Speed		PAL: 1/25 s–1/100,000 s NTSC: 1/30 s–1/100,000 s				Certifications			
S/N Ratio		> 65 dB				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)	
Min. Illumination		0.002 Lux/F1.6, 30 IRE, 0 Lux IR on				Port			
Illumination Distance		30 m (98.4 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 (IR light)				Power			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Power Supply		12 V ±30% DC	
Lens						Power Consumption		Max 3.1 W (12 V DC, IR on)	
Lens Type		Fixed lens				Environment			
Mount Type		M12				Operating Temperature		–40 °C to +60 °C (–40 °F to 140 °F); < 95% (non-condensation)	
Focal Length		2.8 mm; 3.6 mm				Storage Temperature		–40 °C to +60 °C (–40 °F to 140 °F); < 95% (non-condensation)	
Max. Aperture		F1.6				Protection Grade		IP67	
Field of View		2.8 mm: H: 107°; V: 56°; D: 127° 3.6 mm: H: 86°; V: 46°; D: 101°				Structure			
Iris Type		Fixed iris				Casing		Metal dome+metal cover+plastic decorative ring	
Close Focus Distance		2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.1 m (3.6 ft)				Camera Dimensions		Φ109.9 mm × 88.1 mm (Φ4.33" × 3.47")	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Net Weight		0.28 kg (0.62 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)	Gross Weight		0.45 kg (0.99 lb)	
	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									
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)							
Day/Night		Auto switch by ICR							
BLC		BLC/WDR/HLC							
WDR		130 dB							

Ordering Information

Type	Model	Description
2M Camera	DH-HAC-HDW1231TLMQP-A	2MP Starlight HDCVI IR Quick-to-install Eyeball Camera, PAL
	DH-HAC-HDW1231TLMQN-A	2MP Starlight HDCVI IR Quick-to-install Eyeball Camera, NTSC
	DH-HAC-HDW1231TLMQP	2MP Starlight HDCVI IR Quick-to-install Eyeball Camera, PAL
	DH-HAC-HDW1231TLMQN	2MP Starlight HDCVI IR Quick-to-install Eyeball Camera, NTSC
Accessories (Optional)	PFA13G	Junction box
	PFA130-E	IP66 Junction box
	PFB205W	Wall Mount Bracket (For use alone or with PFA152-E)
	PFA152-E	Pole Mount Bracket (For use with PFB205W)
	PFM800-E	Passive HDCVI Balun
	PFM321	12V 1A Power Adapter
	PFM820	UTC Controller
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])



Accessories

Optional:



PFA13G
Junction box



PFA130-E
IP66 Junction box



PFB205W
Wall Mount Bracket
(For use alone or with
PFA152-E)



PFA152-E
Pole Mount Bracket
(For use with PFB205W)



PFM800-E
Passive HDCVI Balun



PFM321
12 V 1A Power Adapter



PFM820
UTC Controller



PFM904
Integrated Mount Tester