

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)
- \cdot CVI/CVBS/AHD/TVI switchable
- \cdot 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.

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Technical Specification

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Camera					
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		0.002 Lux/F1.6, 30 IRE, 0 Lux IR on			
Illumination Distance		30 m (98.4 ft)			
Illuminator On/Off Control		Auto; manual			
Illuminator Number		1 (IR light)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Fixed lens			
Mount Type		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture	Max. Aperture		F1.6		
Field of View		2.8 mm: H: 107°; V: 56°; D: 127° 3.6 mm: H: 86°; V: 46°; D: 101°			
Iris Type		Fixed iris			
Close Focus Distance		2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.1 m (3.6 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	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					

White Balance	Auto; Area WB		
Gain Control	Auto; manual		
Noise Reduction	3D NR		
Smart IR	Yes		
Mirror	Off/On		
Privacy Masking	Off/On (8 area, rectangle)		
Certifications			
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)		
Port			
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port		
Audio Input	One channel built-in mic (-A)		
Power			
Power Supply	12 V ±30% DC		
Power Consumption	Max 3.1 W (12 V DC, IR on)		
Environment			
Operating Temperature	–40 °C to +60 °C (–40 °F to 140 °F); < 95% (non-condensation)		
Storage Temperature	–40 °C to +60 °C (–40 °F to 140 °F); < 95% (non-condensation)		
Protection Grade	IP67		
Structure			
Casing	Metal dome+metal cover+plastic decorative ring		
Camera Dimensions	Φ109.9 mm × 88.1 mm (Φ4.33" × 3.47")		
Net Weight	0.28 kg (0.62 lb)		
Gross Weight	0.45 kg (0.99 lb)		

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	

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Ordering Information

Туре	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

PFA152-E

Pole Mount Bracket

(For use with PFB205W)

PFM820

UTC Controller





PFM800-E Passive HDCVI Balun





PFM904 Integrated Mount Tester

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



PFM321 12 V 1A Power Adapter

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