

# DH-HAC-HDW1231TLM(-A)

2MP Starlight HDCVI IR Eyeball Camera



- · Max 30 fps@1080P
- $\cdot\,$  Starlight, 130 dB true WDR, 3D NR
- · 3.6 mm fixed lens (2.8mm optional)
- · CVI/CVBS/AHD/TVI switchable
- · Super Adapt
- Built-in mic (-A)
- · Max. IR length 30 m, Smart IR
- IP67, DC12V



#### 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

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white bal3DNR 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.

#### 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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Image Sensor		2M CMOS			
Max. Resolution		1920 (H) × 1080 (V)			
Pixel		2MP			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s			
S/N Ratio		> 65 dB			
Min. Illumination		0.002 Lux/F1.6, 30 IRE, 0 Lux IR on			
Illumination Distance		> 65 dB			
Illuminator On/Off Control		30 m (98.4 ft)			
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		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			
Close Focus Distance		2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.1 m (3.6 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	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)

Noise Reduction	3D NR				
Smart IR	Yes				
Mirror	Off/On				
Privacy Masking	Off/On (8 area, rectangle)				
Certifications					
Certifications	CE (EN55032, EN55024, EN50130-4, EN62368-1) 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	12V ±30% DC				
Power Consumption	Max 3.1W (12V DC, IR on)				
Environment					
Operating Temperature	-40°C to +60°C (-40°F to 140°F); < 95% (non- condensation)				
Storage Temperature	$-40^\circ\text{C}$ to $+60^\circ\text{C}$ (– $40^\circ\text{F}$ to $140^\circ\text{F}$ ); < 95% (non-condensation)				
Protection Grade	IP67				
Structure					
Casing	Metal throughout the whole casing				
Camera Dimensions	φ94.0 mm × 85.7 mm (φ3.70" × 3.37")				
Net Weight	0.33 kg (0.73 lb)				
Gross Weight	0.47 kg (1.04 lb)				

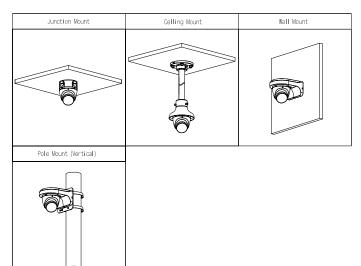
# Video

Frame Rate	CVI: PAL:1080P@25fps; NTSC:1080P@30fps; AHD: PAL:1080P@25fps; NTSC:1080P@30fps; TVI: PAL:1080P@25fps; NTSC:1080P@30fps; CVBS: PAL:960×576H; NTSC:960×480H;
Resolution	1080Р (1920×1080) 960Н (960× 576/960×480)
Day/Night	Auto switch by ICR
BLC	BLC/HLC/WDR
WDR	130dB
White Balance	Auto; Area WB
Gain Control	Auto/Manual

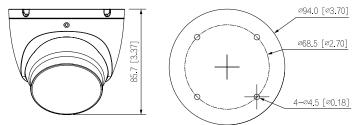
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# **Ordering Information**

Туре	Part Number	Description	
2MP Camera	DH-HAC- HDW1231TLMP	2MP Starlight HDCVI IR Eyeball Camera, PAL	
	DH-HAC- HDW1231TLMN	2MP Starlight HDCVI IR Eyeball Camera, NTSC	
	DH-HAC- HDW1231TLMP-A	2MP Starlight HDCVI IR Eyeball Camera, PAL	
	DH-HAC- HDW1231TLMN-A	2MP Starlight HDCVI IR Eyeball Camera, NTSC	
Accessories	PFA13A-E	Junction box	
	PFB205W	Wall Mount Bracket	
	PFA152-E	Pole Mount Bracket	
	PFA106	Adapter plate	
	PFB220C	Ceiling Mount Bracket	
	PFM800-E	Passive HDCVI Balun	
	PFM321	12V 1A Power Adapter	
	PFM904	Integrated Mount Tester	



## Dimensions (mm[inch])



## Accessories

### **Optional:**



PFA13A-E Junction box



PFB205W Wall Mount Bracket

PFB220C

Ceiling Mount Bracket

PFA152-E Pole Mount Bracket



PFA106 Mount Adapter

PFM321

12V 1A Power Adapter



PFM904 Integrated Mount Tester



PFM800-E Passive HDCVI Balun

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