

DH-HAC-HDW1231T-Z-A 2MP Starlight HDCVI IR Eyeball Camera



- Max. 30 fps@1080P
- Starlight, 130dB true WDR, 3D NR
- Auto focus, 2.7 mm–12 mm motorized lens
- CVI/CVBS/AHD/TVI switchable
- Super Adapt
- Built-in mic
- · Max. IR length 60 m, Smart IR
- IP67, 12V DC



System Overview

Lite Series is suitable for users who requires high quality monitoring products at areasonable 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 3D NR

3D NR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3D NR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3D NR 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 mins.

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-HDW1231T-Z-A

Technical Specification

Camera					
Pixel		2MP			
Image Sensor		1/2.8"CMOS			
Max. Resolution		1920 (H) × 1080 (V)			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s			
Min. Illumination		0.002lux/F1.5, 30IRE, 0Lux IR on			
S/N Ratio		> 65 dB			
Illumination Distance		60 m (196.9 ft)			
Illuminator On/Off Control		Auto			
Illuminator Number		2 (IR light)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Auto Focus		Yes			
Lens Mount		ф14			
Focal Length		2.7 mm–12 mm			
Max. Aperture		F1.5			
Field of View		Diagonal: 38°– 123° Horizontal: 33°–102° Vertical: 19°–53°			
Iris Control		Fixed			
Close Focus Distance		0.5 m (1.6ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.7 mm	47.6 m (156.2 ft)	19.0 m (62.3 ft)	9.5 m (31.2 ft)	76 m (15.6 ft)
	12 mm	132.1 m (433.4 ft)	52.9 m (173.6 ft)	26.4 m (86.6 ft)	3.2 m (43.3 ft)
Video					

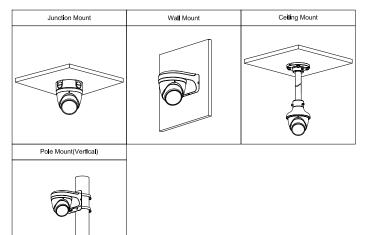
White Balance	Auto/Area WB			
Gain Control	Auto/Manual			
Noise Reduction	3D NR			
Smart Illumination	Yes			
Mirror	Yes			
Privacy Masking	Off/On (8 areas, rectangle)			
Certifications				
Certifications	CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017, EN50130-4:2011+A1:2014, EN 62368- 1:2014+A11:2017) 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			
Power				
Power Supply	12V DC±30%			
Power Consumption	Max. 6.4 W (12V DC, IR on)			
Environment				
Operating Temperature	–30°C to +60°C (–22°F to +140°F); < 95% (non- condensation)			
Storage Temperature	–30°C to +60°C (–22°F to +140°F); < 95% (non- condensation)			
Protection	IP67			
Structure				
Casing	Metal throughout the whole casing			
Camera Dimensions	φ122 mm × 104.8 mm (φ4.80" × 4.13")			
Net Weight	0.58 kg (1.3 lb)			
Gross Weight	0.74 kg (1.6 lb)			

Video

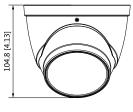
Video Frame Rate	CVI: PAL: 1080P@25fps; NTSC: 1080P@30fps; AHD: PAL: 1080P@25fps; NTSC: 1080P@30fps; TVI: PAL: 1080P@25fps; NTSC: 1080P@25fps; CVBS: PAL: 960×576H; NTSC: 960×480H;
Resolution	1080Р (1920 × 1080); 960Н (960 × 576/960 × 480)
Day/Night	Auto (ICR)
BLC	BLC/WDR/HLC
WDR	130 dB

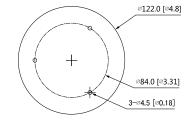
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Ordering Information					
Туре	Part Number	Description			
2M Camera	DH-HAC-HDW1231TP- Z-A 2.7-12mm	2MP Starlight HDCVI IR Eyeball Camera, PAL			
	DH-HAC-HDW1231TN- Z-A 2.7-12mm	2MP Starlight HDCVI IR Eyeball Camera, NTSC			
	PFA137	Junction Box			
	PFA130-E	IP66 Junction box			
	PFB205W	Wall Mount Bracket			
	PFA152-E	Pole Mount Bracket			
Accessories	PFA106	Mount Adapter			
	PFB220C	Ceiling Mount Bracket			
	PFM800-E	Passive HDCVI Balun			
	PFM321D	12V 1A Power Adapter			
	PFM820	UTC Controller			
	PFM904	Integrated Mount Tester			



Dimensions (mm[inch])





Accessories

Optional:



PFA137 Junction Box



PFA130-E IP66 Junction Box



PFB205W Wall Mount Bracket



PFA152-E Pole Mount Bracket









PFM321D 12V 1A Power Adapter

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PFM820 UTC Controller



PFM800-E

Passive HDCVI Balun

Integrated Mount Tester

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