

DH-HAC-HDW1231TMQ-Z-A

2MP Starlight Quick-to-install IR Eyeball Camera



- Max. 30 fps@1080P
- \cdot Starlight, 130dB true WDR, 3D NR
- · Auto focus, 2.7 mm–12 mm motorized lens
- · Quick-to-install eyeball saves installation time
- · CVI/CVBS/AHD/TVI switchable
- \cdot Super Adapt
- \cdot 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 comes 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 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-HDW1231TMQ-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)	4.76 m (15.6 ft)
	12 mm	132.1 m (433.4 ft)	52.9 m (173.6 ft)	26.4 m (86.6 ft)	13.2 m (43.3 ft)
Video					

3D NR	
EN 62368- 3.4-2014) 1)	
by one	
on-	
n-	
e ring	

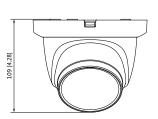
Video

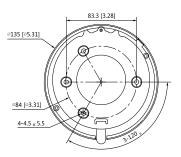
Video Frame Rate	CVI: PAL: 1080P@25fps; NTSC: 1080P@30fps; AHD: PAL: 1080P@25fps; NTSC: 1080P@30fps; TVI: PAL: 1080P@25fps; NTSC: 1080P@30fps; CVBS: PAL: 960×576H; NTSC: 960×480H;	
Resolution	1080P (1920 × 1080); 960H (960 × 576/960 × 480)	
Day/Night	Auto (ICR)	
BLC	BLC/WDR/HLC	
WDR	130 dB	

Lite Series | DH-HAC-HDW1231TMQ-Z-A

Ordering Information					
Туре	Part Number	Description			
	DH-HAC- HDW1231TMQP-Z-A 2.7-12mm	2MP Starlight Quick-to-install IR Eyeball Camera, PAL			
2M Camera	DH-HAC- HDW1231TMQN-Z-A 2.7-12mm	2MP Starlight Quick-to-install IR Eyeball Camera, NTSC			
Accessories	PFA13F	Junction Box			
	PFB211W	Wall Mount Bracket			
	PFA152-E	Pole Mount Bracket			
	PFM800-E	Passive HDCVI Balun			
	PFM321D	12V 1A Power Adapter			
	PFM820	UTC Controller			
	PFM904	Integrated Mount Tester			

Dimensions (mm[inch])





Accessories

Optional:



PFA13F Junction Box



PFB211W Wall Mount Bracket



PFA152-E Pole Mount Bracket



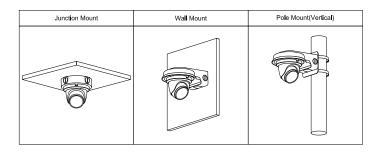
PFM800-E Passive HDCVI Balun



PFM820

UTC Controller





Rev 001.001 © 2021 Dahua. All rights reserved. Design and specifications are subject to change without notice Pictures in the document are for reference only, and the actual product shall prevail.