

# DH-HAC-HDW1231G-A

2MP Starlight HDCVI IR Eyeball Camera



- · Max 30 fps@1080P
- · Starlight, 130dB true WDR, 3D NR
- · 3.6mm fixed lens (2.8mm optional)
- · CVI/CVBS/AHD/TVI switchable
- · Super Adapt
- · Built-in mic
- · Max. IR length 20m, Smart IR
- · IP67, DC 12 V













#### **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.

# 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.

#### 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 ±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-HDW1231G-A

Technical S	pecification				
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		20 m (65.6 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	:	F1.6			
Field of View		2.8 mm: H: 102°; V: 54°; D: 120° 3.6 mm: H: 86°; V: 46°; D: 101°			
Iris Type		Fixed iris			
Close Focus Distance		2.8 mm: 0.5 m (1.6 ft) 3.6 mm: 1.1 m (3.6 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 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)

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	

130 dB

Video

WDR

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	
Power		
Power Supply	12 V ±30% DC	
Power Consumption	Max 2.38 W (12 V DC, IR on)	

#### Environment -40 °C to +60 °C (-40 °F to 140 °F);< 95% (non-con-Operating Temperature densation) $-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}$ );< 95% (non-con-Storage Temperature densation) IP67 **Protection Grade** Structure

#### Casing Metal throughout the whole casing Camera Dimensions $\Phi$ 62.0 mm × 61.7 mm ( $\Phi$ 2.44" × 2.43") 0.17Kg (0.40 lb) Net Weight **Gross Weight** 0.22Kg (0.50 lb)

Ordering Information					
Туре	Model	Description			
2M Camera	DH-HAC-HDW1231GP-A	2MP Starlight HDCVI IR Eyeball Camera, PAL			
	DH-HAC-HDW1231GN-A	2MP Starlight HDCVI IR Eyeball Camera, NTSC			
Accessories (Optional)	PFM800-E	Passive HDCVI Balun			
	PFM321	12V 1A Power Adapter			
	PFM820	UTC Controller			
	PFM904	Integrated Mount Tester			

## Accessories

## **Optional:**



PFM800-E Passive HDCVI Balun

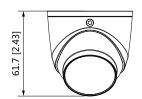


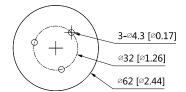
PFM321 12V 1A Power Adapter



PFM820 UTC Controller

# Dimensions (mm[inch])







PFM904 Integrated Mount Tester

