

# 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

PAL: 1080P@25fps; NTSC: 1080P@30fps; AHD:

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1080P (1920 × 1080); 960H (960 × 576/960 × 480)

TVI:

CVBS: PAL: 960×576H; NTSC: 960×480H;

Auto (ICR)

130 dB

BLC/WDR/HLC

Video Frame Rate

Resolution

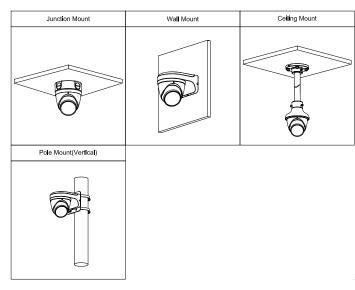
Day/Night

BLC

WDR

Technical Specification						White Balance	Auto/Area WB	
Camera						Gain Control	Auto/Manual	
Pixel		2MP				Noise Reduction	3D NR	
Image Sensor		1/2.8"CMOS				Smart Illumination	Yes	
Max. Resolution	on	1920 (H) × 1080 (V)				Mirror	Yes	
Scanning Syste	em	Progressive				Privacy Masking	Off/On (8 areas,rectangle)	
Electronic Shu	tter Speed	PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				Certifications		
Min. Illuminati	on	0.002lux/F1.5, 30IRE, 0Lux IR on				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)	
Illumination Distance		60 m (196.9 ft)					FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)	
Illuminator On	/Off Control	Auto				Port		
Illuminator Nu	mber	2 (IR light)				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Pan/Tilt/Rotat	ion Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Audio Input	One channel built-in mic	
Lens					Power			
Lens Type		Motorized vari-focal				Power Supply	12V DC±30%	
Auto Focus		Yes				Power Consumption	Max. 6.4 W (12V DC, IR on)	
Lens Mount		ф14				Environment		
Focal Length		2.7 mm-12 mm				Operating Temperature	$-30^{\circ}\text{C}$ to +60°C (–22°F to +140°F); < 95% (noncondensation)	
Max. Aperture		F1.5				Storage Temperature	$-30^{\circ}\text{C}$ to +60°C (–22°F to +140°F); < 95% (noncondensation)	
Field of View		Diagonal: 38°–123° Horizontal: 33°–102° Vertical: 19°–53°				Protection	IP67	
Iris Control		Fixed				Structure		
Close Focus Distance		0.5 m (1.6ft)				Casing	Metal throughout the whole casing	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Camera Dimensions	φ122 mm × 104.8 mm (φ4.80" × 4.13")	
	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)	Net Weight	0.58 kg (1.3 lb)	
	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)	Gross Weight	0.74 kg (1.6 lb)	
Video								

Ordering Information						
Туре	Part Number	Description				
2M Camera	DH-HAC-HDW1231TP- Z-A 2.7-12mm	2MP Starlight HDCVI IR Eyeball Camera, PAL				
ZIVI Carriera	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				



# Accessories

# **Optional:**



PFA137 Junction Box



PFA130-E IP66 Junction Box



PFB205W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA106 Mount Adapter



PFB220C Ceiling Mount Bracket



PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM820 UTC Controller



