

# DH-HAC-HDW1231TQ-A

2MP Starlight HDCVI Quick-to-install IR Eyeball Camera



- · Max 30 fps@1080P
- · Starlight, 130 dB true WDR, 3D NR
- · 3.6 mm fixed lens (2.8 mm, 6 mm optional)
- · CVI/CVBS/AHD/TVI switchable
- · Super Adapt
- · Built-in mic
- $\cdot$  Max. IR length 40 m, Smart IR
- · IP67, DC12V
- · Quick-to-install saves installation time















# **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**

#### Starligh

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 surveil-lance 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.

### **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 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.

Auto switch by ICR

BLC/WDR/HLC

130 dB

Resolution

Day/Night

BLC

WDR

PAL: 960 × 576H; NTSC: 960 × 480H

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

Lite Serie	es   DH-H	AC-HDW	/1231T(	Q-A						
Technical Specification					White Balance	lance A		Auto; manual		
Camera						Gain Control	Gain Control Au		uto; manual	
Image Sensor		1/2.8" CMOS				Noise Reducti	luction 3D NR			
Max. Resolution		1920 (H) × 1080 (V)				Smart IR	Yes			
Pixel		2MP				Mirror	Mirror Off/C			
Scanning System		Progressive				Privacy Maski	Privacy Masking (		Off/On (8 area, rectangle)	
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				Certifications				
S/N Ratio		> 65 dB				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)	
Min. Illumination		0.002 Lux/F1.6, 30 IRE, 0 Lux IR on								
Illumination D	istance	40 m (131.2 ft)				Port				
Illuminator On/Off Control		Auto; manual				Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port		
Illuminator Number		1 (IR light)				Audio Input	Audio Input Or		One channel built-in mic	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Power				
						Power Supply		12V ±30% DC		
Lens						Power Consumption Max		Max 3.1	ax 3.1 W (12V DC, IR on)	
Lens Type		Fixed lens				Environment				
Mount Type		M12				Operating Ter	Operating Temperature		-40°C to $+60$ °C ( $-40$ °F to $140$ °F); < 95% (non-condensation)	
Focal Length		2.8 mm; 3.6 mm; 6 mm				Storage Temp	Storage Temperature		-40°C to $+60$ °C ( $-40$ °F to $140$ °F); < 95% (non-condensation)	
Max. Aperture		F1.6 2.8 mm: H: 107°; V: 56°; D: 127°						IP67	•	
Field of View		3.6 mm: H: 86°; V: 46°; D: 101° 6 mm: H: 54°; V: 29°; D: 63°				Structure				
Iris Type		Fixed iris				Casing	Casing		Metal inner core+plastic cover+plastic pedestal	
Close Focus Distance		2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.1 m (3.6 ft) 6 mm: 2.5 m (8.2 ft)				Camera Dime	Camera Dimensions		Φ109.9 mm × 100.9 mm (Φ4.33" × 3.97")	
						Net Weight	Net Weight		0.32 kg (0.71 lb)	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Gross Weight		0.49 Kg (1.08 lb)		
	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)	Ordering I	lering Information			
	6 mm	82.8 m	33.1 m	16.6 m	8.3 m	Туре	Part Number		Description	
Video		(271.7ft) (108.6 ft) (54.5 ft) (27.2 ft)			2M Camera	DH-HAC- HDW1231TQP-	Д	2MP Starlight HDCVI Quick-to-install IR Eyeball Camera		
Frame Rate		CVI: PAL: 1080P@25 fps; NTSC: 1080P@30 fps; AHD: PAL: 1080P@25 fps; NTSC: 1080P@30 fps; TVI:					DH-HAC- HDW1231TQN-	A	2MP Starlight HDCVI Quick-to-install IR Eyeball Camera	
							PFA13G		Junction box	
							PFA130-E		IP66 Junction box	
		PAL: 1080P@25 fps; NTSC: 1080P@30 fps; CVBS:					PFB205W		Wall Mount Bracket (For use alone or with PFA152-E)	

PFA152-E

PFM800-E

PFM321

PFM820

PFM904

Accessories (Optional)

Pole Mount Bracket (For use with PFB205W)

Passive HDCVI Balun

12V 1A Power Adapter

Integrated Mount Tester

UTC Controller

# **Accessories**

# **Optional:**



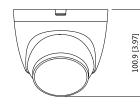
PFA13G Junction Box



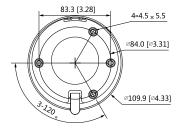
PFA130-E IP66 Junction box



PFB205W Wall Mount Bracket (For use alone or with PFA152-E)



Dimensions (mm [inch])



PFA152-E Pole Mount Bracket (For use with PFB205W)



PFM800-E Passive HDCVI Balun



PFM321 12V 1A Power Adapter



PFM820 UTC Controller



PFM904 Integrated Mount Tester

