

DH-HAC-HDW1409T(-A)-LED

4MP Full-color Starlight HDCVI Eyeball Camera



- · Full-color starlight
- · 40 m LED distance
- · Max. 25fps@4MP
- $\cdot \, \text{CVI/CVBS/AHD/TVI} \, \text{switchable} \\$
- · Built-in mic (-A)
- · 3.6 mm fixed lens
- · IP67, 12V±30% DC











System Overview

Experience 4MP full HD color video and the simplicity of reusing existing coaxial infrastructure with HDCVI. The full-color starlight HDCVI camera presents a high quality color image with rich details even in total darkness conditions. It offers various fixed lens models with a multi-language OSD and HD/SD switchable output. It adopts two powerful warm white LED illuminators, covering an effective range up to 40 m (131.23 ft). The LEDs switch on automatically in darkness to capture detail-packed full-color images 24/7, ensuring anthentic identification of objects. It is an ideal choice for applications such as schools, retail centers and parking lots

Functions

Full-color Starlight

The camera adopts F1.2 large aperture lens and 1/2.7" high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera presents an impressive lowlight performance with an exceptional balance between noise reduction and the blur of moving object.

Warm Supplemental lights

With two warm supplemental LED lights, the camera is able to provide a coloful and vivid image even in total dark. By default, the camera is set to smart light mode, in which the camera can automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposureing of the objects in the image center. Also, the sensitivity and intensity of the LED lights can be remotely controlled by OSD menu.

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.

*This function is available for select models

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm.

*Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees long-distance and real-time transmission without any loss. It supports up to 700 m for 4MP HD video via coaxial cable, and up to 300 m via UTP cable.*

*Actual results verified by real-scene testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Multiple-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with most end users' existing HD/SD DVRs.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of-40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the mostunstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Lite Plus Series | DH-HAC-HDW1409T(-A)-LED

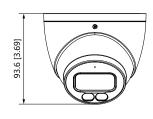
Technical Specification						Privacy Masking	Off/On (8 area, rectangle)
Camera					Certifications		
Image Sensor		1/2.7 inch Cf	MOS			Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-20
Effective Pixels		2560 (H) × 1440 (V), 4MP					UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Scanning System		Progressive				Port	
Electronic Shutter Speed		PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s				Video Output	Video output choices of CVI/TVI/AHD/CVBS by or BNC port
S/N Ratio		>65dB				Audio Interface	
Minimum Illum	nination	0.005Lux/F1.2, 0Lux White Light on				Audio Input	Built-in mic(-A)
Fill Light (White	e Light) Distance	Distance up to 40 m (131.23 ft)				Power	
Fill Light On/Off Control		Auto; manual				Power Supply	12V ±30% DC
Fill Light Number		2				Power Consumption	Max 5.0W (12V DC, white light on)
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Environment	
						Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (noncondensation)
Lens						Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non- condensation)
Lens Type		Fixed-focal				Protection Grade	IP67
Mount Type		M12				Structure	
Focal Length		3.6 mm				Casing	Metal throughout the whole casing
Max. Aperture		F1.2				Camera Dimensions	φ106.0 mm × 93.6 mm (φ4.17" × 3.69")
Field of View		3.6 mm: $97^{\circ} \times 81^{\circ} \times 43^{\circ}$ (diagonal × horizontal × vertical)					
Iris Type		Fixed iris				Net Weight	0.46 Kg (1.01 lb)
Close Focus Distance		3.6 mm: 2.1 m (6.89 ft)				Gross Weight	0.61 Kg (1.34 lb)
DORI Distance	Lens	Detect	Observe	Recognize	Identify		
	3.6 mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)		

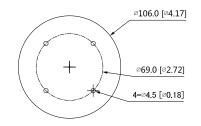
Frame Rate	CVI: PAL: 4M@25fps,1080P@25fps; NTSC: 4M@30fps,1080P@30fps AHD: PAL: 4M@25fps; NTSC: 4M@30fps TVI: PAL: 4M@25fps; NTSC: 4M@30fps CVBS: PAL: 960H; NTSC: 960H	
Resolution	4M (2560 × 1440); 1080P (1920 × 1080); 960H (704 × 576/704 × 480);	
BLC	BLC/HLC/WDR	
WDR	DWDR	
White Balance	Auto; manual	
Gain Control	Auto; manual	
Noise Reduction	2D NR	
Smart Light	Yes	
Mirror	Off/On	

Ordering Information							
Туре	Part Number	Description					
	DH-HAC-HDW1409TP- A-LED 0360B						
4MP Camera	DH-HAC-HDW1409TN- A-LED 0360B	4MP Full-color Starlight HDCVI Eyeball Camera					
4IVIP Camera	DH-HAC-HDW1409TP- LED 0360B						
	DH-HAC-HDW1409TN- LED 0360B						
	PFA130-E	Water-proof Junction Box					
	PFB204W	Water-proof Wall Mount Bracket					
	PFA106 + PFB220C	Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera					
	PFA152-E + PFB204W	Pole Mount Bracket + Water-proof Wall Mount Bracket					
Accessories	PFA152-E + PFA130-E	Pole Mount Bracket + Water-proof Junction Box					
	PFM820 (Only 1080P and below are available)	UTC Controller					
	PFM800-E	Passive HDCVI Balun					
	PFM800-4K	Passive Video Balun					
	PFM907	Integrated Mount Tester					
	PFM320D	12V 2A DC power adapter					

Ceiling Mount	Junction Mount	Wall Mount
	PFA130-E	PFB204W
6		
Ceiling Mount	Pole Mount	Horizontal Pole Mount
PFA106+PFB220C	PFA152-E+PFB204W	PFA152-E+PFA130-E

Dimensions (mm[inch])





Accessories

Optional:







PFB204W Bracket



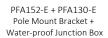
PFA106 + PFB220C Water-proof Wall Mount Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera













PFM820 UTC Controller



Water-proof Wall Mount

Bracket

PFM800-E



PFM800-4K Passive Video Balun



PFM907 Integrated Mount Tester



PFM320D 12V 2A DC power adapter

