

DH-HAC-HDW1209TQ(-A)-LED

2MP Full-color HDCVI Quick-to-install Eyeball Camera





- · 24/7 color imaging
- · 40 m illumination distance
- · Max. 30 fps@1080p
- · Quick-to-install eyeball saves installation time
- · CVI/CVBS/AHD/TVI switchable
- · Fixed lens (2.8 mm; 3.6 mm optional)
- · IP67, 12V±30% DC













System Overview

Experience 2MP 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 dark conditions. It offers various fixed lens models with a multi-language OSD and HD/SD switchable output. It adopts one 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

The camera adopts F1.6 large aperture lens and 1/2.8" high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera can present 24/7 colored image that provides color details to accurately identify people or objects in low light conditions.

Warm Supplemental lights

With one 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 XVR, 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 2MP 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.

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.

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.

Lite Series | DH-HAC-HDW1209TQ(-A)-LED

Technical Specification						Noise Reduction	2D NR
Camera					Smart Light	Yes	
Image Sensor		1/2.8 inch CMOS				Mirror	Off/On
Effective Pixe	ls	1920 (H) × 1080 (V), 2MP				Privacy Masking	Off/On (8 area, rectangle)
Scanning Syst	tem	Progressive				Certifications	
Electronic Shutter Speed		PAL: 1/25 s=1/100000 s NTSC: 1/30 s=1/100000 s				Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
S/N Ratio		>65 dB				Port	
Minimum Illu	mination	0.01 Lux/F1.6, 0 Lux white light on				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illumination Distance		Distance up to 40 m (131.23 ft)					
Illuminator On/Off Control		Auto; manual				Power	
Illuminator Number		2				Power Supply	12V ±30% DC
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°-78° Rotation: 0°–360°				Power Consumption	Max 4.9W (12V DC, white light on)
Lens		Rotation: 0 –560				Environment	
Lens Type		Fixed-focal				Operating Temperature	-40°C to $+60^{\circ}\text{C}$ (-40°F to 140°F); <95% (noncondensation)
Mount Type		M12				Storage Temperature	-40°C to $+60^{\circ}\text{C}$ (-40°F to 140°F); <95% (noncondensation)
Focal Length		2.8 mm; 3.6 mm				Protection Grade	IP67
Max. Aperture		F1.6				Structure	
Field of View		2.8 mm: 126.2° × 106° × 56.5° (diagonal × horizontal × vertical); 3.6 mm: 103.6° × 86.9° × 46.3° (diagonal × horizontal × vertical)				Casing	Inner core: metal Cover: plastic Pedestal: plastic
Iris Type		Fixed iris				Camera Dimensions	φ109.9 mm × 100.9 mm (φ4.33" × 3.97")
Close Focus Distance		2.8 mm: 0.7 m (2.29 ft);				Net Weight	0.32 kg (0.71 lb)
		3.6 mm: 1.2 m (3.94 ft)				Gross Weight	0.49 kg (1.08 lb)
DORI Distance	Lens	Detect	Observe	Recognize	Identify		
	2.8 mm	43.9 m (144.02 ft)	17.5 m (57.41 ft)	8.8 m (28.87 ft)	4.4 m (14.43 ft)		
	3.6 mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)		

Frame Rate	CVI: PAL: 1080p@25 fps; 720p@25 fps; NTSC: 1080p@30 fps; 720p@30 fps; AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps CVBS: PAL: 960H; NTSC: 960H		
Resolution	1080p (1920 × 1080); 720p (1280× 720); 960H (960 × 576/960 × 480)		
BLC	BLC/DWDR		
WDR	DWDR		
White Balance	Auto; manual		
Gain Control	Auto; manual		

Ordering Information Part Number Description Туре DH-HAC-HDW1209TQP-LED 2.8 mm DH-HAC-HDW1209TQN-LED 2.8 mm DH-HAC-HDW1209TQP-LED 3.6 mm DH-HAC-HDW1209TQN-LED 3.6 mm 2MP Full-color HDCVI Quick-to-install 2MP Camera Eyeball Camera DH-HAC-HDW1209TQP-A-LED 2.8 mm DH-HAC-HDW1209TQN-A-LED 2.8 mm DH-HAC-HDW1209TQP-A-LED 3.6 mm DH-HAC-HDW1209TQN-A-LED 3.6 mm PFA13G Junction Box IP66 Junction Box PFA130-E PFB205W Wall Mount Bracket Pole Mount Bracket PFA152-E Accessories 12V 1A Power Adapter PFM321D PFM904 Integrated Mount Tester UTC controller (Only 1080p and below are PFM820 available) Passive HDCVI Balun PFM800-E

Accessories

Optional:









PFA13G Junction Box

PFA130-E IP66 Junction Box

PFB205W Wall Mount Bracket



Pole Mount Bracket



PFM904 Integrated Mount Tester



PFM820 UTC controller (Only 1080p and below are available)



12V 1A Power Adapter

PFM800-E Passive HDCVI Balun

Junction Mount	Wall Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

