

DH-HAC-HDW1239TL(-A)-LED

2M Full-color Starlight HDCVI Eyeball Camera



- Full-color starlight
- 20m LED distance
- Max. 30fps@1080P
- CVI/CVBS/AHD/TVI switchable
- Built-in mic(-A)
- 3.6mm fixed lens(2.8mm Optional)
- IP67, 12V±30% DC



System Overview

Experience 1080P 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 20m(65.61ft). The LEDs switch on automatically in darkness to capture detail-packed full-color images 24/7, ensuring authentic 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 F1.6 large aperture lens and 1/2.8" 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 one warm supplemental LED lights, the camera is able to provide a colorful and vivid image even in total darkness. It also provides visible 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.

*Broadcast-quality audio is available for some models of HDCVI cameras.

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. Moreover, HDCVI technology

*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 800m for 1080P Full HD video via coaxial cable, and up to 300m 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

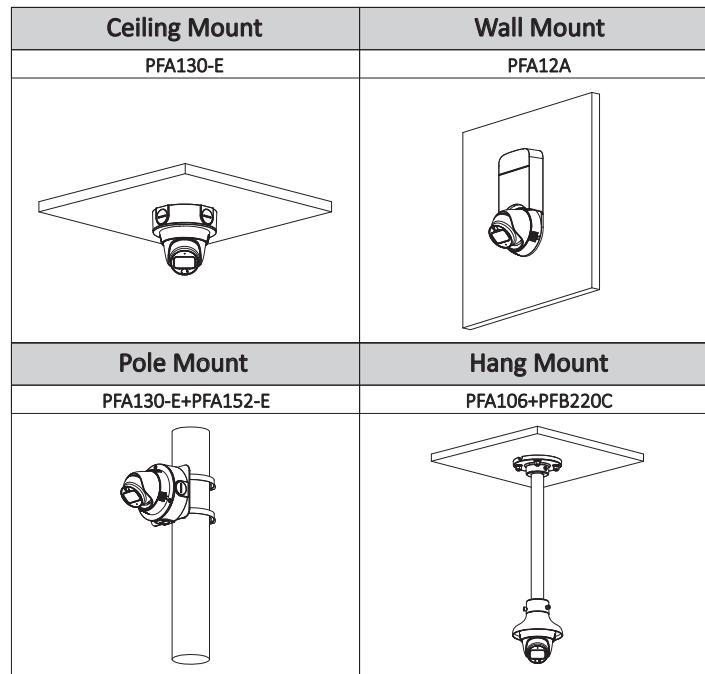
The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with most end users' existing HD/SD DVRs.

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.

Technical Specification										
Camera										
Image Sensor		1/2.8 inch 2.16 Mega Pixels CMOS								
Effective Pixels		1920 (H)×1080 (V), 2MP								
Electronic Shutter Speed		PAL:1/25s~1/100000s NTSC:1/30s~1/100000s								
Minimum Illumination		0.005Lux/F1.6, 30IRE, 0Lux white Light on								
Fill Light (White Light) Distance		Distance up to 20m (65.61ft)								
Fill Light On/Off Control		Auto; Manual								
Fill Light Number		1								
Pan/Tilt/Rotation Range		Pan: 0°~360° Tilt: 0°~78° Rotation: 0°~360°								
Lens										
Lens Type		Fixed-focal								
Mount Type		M12								
Focal Length		2.8m/3.6mm								
Max. Aperture		F1.6								
Angle of View		2.8mm: 126.2°×106.0°×56.5° (diagonal×horizontal×vertical) 3.6mm: 103.6°×86.9°×46.3° (diagonal×horizontal×vertical)								
Iris Type		Fixed iris								
Close Focus Distance		2.8mm: 0.6m (1.97ft) 3.6mm: 1.2m (3.94ft)								
DORI Distance	Lens	Detect	Observe	Recognize	Identify					
	2.8mm	38.6m (126.6ft)	15.4m (50.5ft)	7.7m (25.3ft)	3.9m (12.8ft)					
	3.6mm	55.2m (181.1ft)	22.1m (72.5ft)	11.0m (36.0ft)	5.5m (18.0ft)					
Video										
Video Frame Rate		CVI: PAL: 1080@25fps, 720@25fps, 720@50fps; NTSC: 1080@30fps, 720@30fps, 720@60fps AHD: PAL: 1080@25fps, 720@25fps; NTSC: 1080@30fps, 720@30fps TVI: PAL: 1080@25fps, 720@25fps, 720@50fps; NTSC: 1080@30fps, 720@30fps, 720@60fps CVBS: PAL: 960×576H; NTSC: 960×480H								
BLC		BLC/HLC/WDR								
WDR		DWDR								
White Balance		Auto; Manual								
Gain Control		Auto; Manual								
Noise Reduction		2D NR								
Smart Light		Yes								
Electronic Defog		Yes								
Digital Zoom										
16X										
Mirror										
Off/On										
Privacy Masking										
Off/On (4 area, rectangle)										
Certification										
Certifications		CE (EN55032, EN55024, EN50130-4, EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)								
Interface										
Audio Interface		Built-in mic(-A)								
Port										
Video Port		Video output choices of CVI/TVI/AHD/CVBS by one BNC port								
Power										
Power Supply		12V ±30% DC								
Power Consumption		Max 3W (12V DC, white light on)								
Environment										
Operating Temperature		-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)								
Storage Temperature		-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)								
Protection Grade		IP67								
Structure										
Casing		Inner core: metal+plastic; cover: plastic; pedestal: plastic								
Dimensions		φ97mm×85.8mm (φ3.82"×3.38")								
Net Weight		0.22Kg (0.49lb)								
Gross Weight		0.28Kg (0.62lb)								
Ordering Information										
Type										
Part Number										
Description										
2M Camera	DH-HAC-HDW1239TLP-A-LED-0360B		2M Full-color Starlight HDCVI Eyeball Camera, PAL							
	DH-HAC-HDW1239TLP-LED-0360B									
	DH-HAC-HDW1239TLP-A-LED-0280B									
	DH-HAC-HDW1239TLP-LED-0280B									
	DH-HAC-HDW1239TLN-A-LED-0360B		2M Full-color Starlight HDCVI Eyeball Camera, NTSC							
	DH-HAC-HDW1239TLN-LED-0360B									
	DH-HAC-HDW1239TLN-A-LED-0280B									
DH-HAC-HDW1239TLN-LED-0280B										

Accessories	PFA130-E	Water-proof Junction Box
	PFA12A	Plastic Junction Box
	PFA130-E+PFA152-E	Water-proof Junction Box+Pole Mount Bracket
	PFA106+PFB220C	Adapter Plate of Mini Dome & Eyeball Camera+Ceiling Mount Bracket of Mini Dome & Eyeball Camera
	PFM820	UTC Controller
	PFM800-E	Passive HDCVI Balun
	PFM800-4K	Passive Video Balun
	PFM800B-4K	Passive Video Balun
	PFM321	12V 1A Power Adapter
	PFM300	12V 2A Power Adapter
	PFM320D-015	12V 1.5A Power Adapter



Accessories

Optional:

		
PFA130-E Water-proof Junction Box	PFA12A Plastic Junction Box	PFA130-E+PFA152-E Water-proof Junction Box+Pole Mount Bracket
		
PFA106+PFB220C Adapter Plate of Mini Dome & Eyeball Camera+Ceiling Mount Bracket of Mini Dome & Eyeball Camera	PFM820 UTC Controller	PFM800-E Passive HDCVI Balun
		
PFM800-4K Passive Video Balun	PFM800B-4K Passive Video Balun	PFM321 12V 1A Power Adapter
		
PFM300 12V 2A Power Adapter	PFM320D-015 12V 1.5A Power Adapter	

Dimensions (mm[inch])

