

DH-HAC-HFW2249T-A-LED

2MP Full-color HDCVI Bullet Camera





- * The parameters and datasheets below can only be applied to 2249-S2 series.
- · 24/7 color imaging, Max. 30 fps@1080p
- · 20 m illumination distance
- · Super Adapt, 120 dB true WDR, 3D NR
- · Built-in mic
- · 3.6 mm fixed lens (2.8 mm optional)
- · CVI/CVBS/AHD/TVI switchable
- · IP67, DC 12 V













System Overview

Pro Series is a perfect choice for SMB solutions and projects where both high reliability and flexibility are required. All cameras are equipped with Starlight feature, 120dB true WDR and 3DNR, and are able to provide clear images and rich details even under tough lighting conditions.

Functions

Full-color

Full-color camera adopts large aperture lens and high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera provides 24/7 color monitoring that collects clear and vivid information, significantly increasing probability of gathering valid human, vehicle, and event evidence that can be used for further intelligent analysis.

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.

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.

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.

Warm Supplemental lights

With warm supplemental LED lights, the camera is able to provide a coloful and vivid image even in total darkness. 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.

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. Moreover, HDCVI technology supports PoC for construction flexibility.

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

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700m transmission for 2MP/5MP/8MP HD video via coaxial cable, and up to 300m via UTP cable

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

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.

Pro Series | DH-HAC-HFW2249T-A-LED

Video

Frame Rate

Resolution

White Balance

Gain Control

BLC

WDR

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

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

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

BLC/HLC/WDR/HLC-Pro

Auto; Area white balance

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

AHD:

TVI:

CVBS: PAL: 960H NTSC: 960H

120dB

Auto; manual

Technical Specification							Noise Reduction	3D NR
Camera							Smart Light	Yes
Image Sensor		2MP CMOS					Mirror	Off/On
Max. Resolution		1920 (H) × 1080 (V)					Privacy Masking	Off/On (8 area, rectangle)
Pixel		2MP					Certifications	
Scanning System		Progressive				Certifications	CE (EN55032, EN55024, EN50130-4, EN62368-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014 UL (UL60950-1+CAN/CSA C22.2 No.60950-1)	
Electronic Shutter Speed		PAL: 1/3 s-1/100,000 s NTSC: 1/4 s-1/100,000 s						
S/N Ratio		< 65 dB					Port	
Min. Illumination		0.0002 Lux/F1.0, 0 Lux White Light on					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)
Illumination Distance		20 m (65.6 ft)					Audio Input	One channel built-in mic
Illuminator On/Off Control		Auto; manual					Power	
Illuminator Number		1					Power Supply	12V ±30% DC
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°					Power Consumption	Max 4.2W (12V DC, warm light on)
rany mry Notation Name		Rotation: 0°–360°					Environment	
Lens							Operating Temperature	-40°C to +60°C (–40°F to 140°F) ; < 95% (noncondensation)
Lens Type Mount Type		Fixed lens M12					Storage Temperature	-40°C to +60°C (–40°F to 140°F) ; < 95% (noncondensation)
Focal Length		2.8 mm; 3.6 mm					Protection Grade	IP67
Max. Aperture		F1.0					Structure	
Field of View		2.8 mm: H: 106°; V: 55°; D: 125°					Casing	Metal throughout the whole casing
		3.6 mm: H: 84°; V: 44°; D: 99°					Camera Dimensions	205 mm × 91 mm × 91 mm (8.1" × 3.6" × 3.6")
Iris Type		Fixed iris					Net Weight	0.36 kg (0.79 lb)
Close Focus Distance		2.8 mm: 1 m (3.3 ft) 3.6 mm: 1.7 m (5.6 ft)					Gross Weight	0.48 kg (1.06 lb)
DORI Distance	Lens	Detect	Observe	Recognize	Identify			
	2.8 mm	45.5 m (149.3 ft)	18.2 m (59.7 ft)	9.1 m (29.9 ft)	4.6 m (15.1 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)			

Ordering Information								
Туре	Part Number	Description						
2140 Communi	DH-HAC-HFW2249TP- A-LED	2MP Full-color HDCVI Bullet Camera, PAL						
2MP Camera	DH-HAC-HFW2249TN- A-LED	2MP Full-color HDCVI Bullet Camera, NTSC						
	PFA134	Junction box						
	PFA130-E	Junction box						
	PFA134+PFA152-E	Pole Mount Bracket						
Accessories	PFA130-E+PFA152-E	Pole Mount Bracket						
	PFM800-E	Passive HDCVI Balun						
	PFM321	12V 1A Power Adapter						
	PFM904	Integrated Mount Tester						

Accessories

Optional:



PFA134 Junction Box



PFA130-E Junction Box



PFA152-E+PFA134 Pole Mount Bracket + Water-proof Junction Box



PFA152-E+PFA130-E Pole Mount Bracket + Water-proof Junction Box



PFM800-E Passive HDCVI Balun



PFM321 12V 1A Power Adapter



PFM904 Integrated Mount Tester

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

