

DH-HAC-HFW2249TU-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.
- · 60 m illumination distance.
- · Super Adapt, 120 dB true WDR, 3D NR.
- · Built-in mic.
- \cdot 3.6 mm fixed lens (2.8 mm, 6 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 work 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.

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

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AHD:

TVI:

CVBS: PAL: 960H NTSC: 960H

Frame Rate

Pro Serie	S DH-HA	AC-HFW	224910	J-A-LED						
Technical Specification						Resolution	1080P (1920 × 1080) ; 960		920 × 1080) ; 960H (960× 576/960 × 480) ;	
Camera						BLC	BLC/H		/WDR/HLC-Pro	
Image Sensor		2MP CMOS				WDR	120dB			
Max. Resolution		1920 (H) × 1080 (V)				White Balance	Auto; Area white balance		ea white balance	
Pixel		2MP				Gain Control	Auto; manual		nual	
Scanning System		Progressive				Noise Reducti	on 3D NR			
Electronic Shu	tter Speed	PAL: 1/3 s-1/100,000 s NTSC: 1/4 s-1/100,000 s				Smart Light	Yes			
S/N Ratio		> 65 dB				Mirror	Off/On			
Min. Illumination		0.0002 Lux/F1.0, 0 Lux White Light on				Privacy Maski	Off/On (8 area, rectangle)			
Illumination Distance		60 m (196.9 ft)				Certificatio	Certifications			
Illuminator On/Off Control		Auto; manua	al			Certifications	s FCC (CF		032, EN55024, EN50130-4, EN62368-1) 47 FCC Part 15 subpartB, ANSI C63.4-2014) 950-1+CAN/CSA C22.2 No.60950-1)	
Illuminator Number		4				Port	Port			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°"				Video Output) ()IIITDIIT		tput choices of CVI/TVI/AHD/CVBS by one (DIP Switch)	
Lens						Audio Input	io Input One channel built-in mic		nnel built-in mic	
Lens Type		Fixed lens				Power	Power			
Mount Type		M12				Power Supply	Power Supply		% DC	
Focal Length		2.8 mm; 3.6 mm; 6 mm				Power Consur	Power Consumption Max 10.2W (12V DC, warm light on)			
Max. Aperture		F1.0				Environme	Environment			
Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 84°; V: 44°; D: 99° 6 mm: H: 57°; V: 31°; D: 65°				Operating Ten	Operating Temperature $-40^{\circ}\text{C to } +60^{\circ}\text{C (}-40^{\circ}\text{F to } 140^{\circ}\text{F) }$; <95% (non-condensation)			
Iris Type		Fixed iris				Storage Temp	erature	-40°C to $+60$ °C (-40 °F to 140 °F) ;<95% (non-condensation)		
Close Focus Distance		2.8 mm: 1 m (3.3 ft) 3.6 mm: 1.7 m (5.6 ft) 6 mm: 4.3m (14.1 ft)				Protection Gra	ade	IP67		
						Structure	Structure			
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Casing	Metal ti		roughout the whole casing	
	2.8 mm	44.9 m (147.3 ft)	17.9 m (58.7 ft)	8.9 m (29.2 ft)	4.6 m (15.1 ft)	Camera Dime	nsions	244.1 mm \times 90.4 mm \times 90.4 mm (9.61" \times 3.56" \times 3.56")		
	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)	Net Weight		0.76 kg (1.68 lb)		
	6 mm	82.8 m (271.7 ft)	33.1 m (108.6 ft)	16.6 m (54.5 ft)	8.3 m (27.2 ft)	Gross Weight		1.02 kg (2.25 lb)		
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.					Ordering I	Ordering Information			
						Туре	Part Number		Description	
							DH-HAC- HFW2249TUP-A-LED		2MP Full-color HDCVI Bullet Camera, PAL	
Video						2MP Camera				

Ordering Information									
Туре	Part Number	Description							
2MD Company	DH-HAC- HFW2249TUP-A-LED	2MP Full-color HDCVI Bullet Camera, PAL							
2MP Camera	DH-HAC- HFW2249TUN-A-LED	2MP Full-color HDCVI Bullet Camera, NTSC							
	PFA130-E	Junction Mount							
	PFA130-E+PFA152-E	Pole Mount Bracket							
Accessories	PFM800-4k	Passive HDCVI Balun							
	PFM321	12V 1A Power Adapter							
	PFM904	Integrated Mount Tester							

Accessories

Optional:



PFA130-E Junction Box



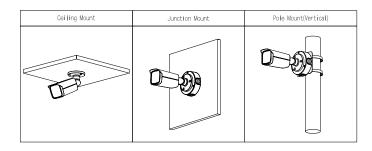
PFA152-E+PFA130-E Pole Mount Bracket + Water-proof Junction Box



PFM321 12V 1A Power Adapter



PFM904 Integrated Mount Tester



Dimensions (mm[inch])

