

# 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.

st 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.

Resolution

BLC

WDR

Technical Specification						White Balance	nce Auto; Are		ea white balance	
Camera					Gain Control	ontrol Auto; m		anual		
Image Sensor		2MP CMOS				Noise Reductio	on 3D NR			
Max. Resolution		1920 (H) × 1080 (V)				Smart Light	Yes			
Pixel		2MP				Mirror	Off/On			
Scanning Syst	tem	Progressive				Privacy Maskin	off/On (8 area, rectangle)			
Electronic Sh	utter Speed	PAL: 1/3 s-1/100,000 s NTSC: 1/4 s-1/100,000 s				Certificatio	Certifications			
S/N Ratio		> 65 dB				Certifications		CE (EN55032, EN55024, EN50130-4, EN62368-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-20		
Min. Illumination		0.0002 Lux/F1.0, 0 Lux White Light on							UL (UL60950-1+CAN/CSA C22.2 No.60950-1)	
Illumination Distance		60 m (196.9 ft)				Port	Port			
Illuminator On/Off Control		Auto; manual				Video Output			ideo output choices of CVI/TVI/AHD/CVBS by one NC port (DIP Switch)	
Illuminator Number		4				Audio Input	Audio Input One cha		nnel built-in mic	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°				Power	Power			
Long		Rotation: 0°–360°"			Power Supply	12V ±30		% DC		
Lens		Fixed long				Power Consum	Power Consumption Max 10		2W (12V DC, warm light on)	
Lens Type		Fixed lens M12				Environmer	Environment			
Mount Type Focal Length		2.8 mm; 3.6 mm; 6 mm				Operating Tem	Operating Temperature -40°C to +60°C (-40°F to 140°F); <95% (non- condensation)			
Max. Aperture		F1.0				Storage Tempe			-40°C to +60°C (-40°F to 140°F) ;<95% (non- condensation)	
Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 84°; V: 44°; D: 99°				Protection Gra	Protection Grade IP6			
		6 mm: H: 57°; V: 31°; D: 65°				Structure				
Iris Type		Fixed iris  2.8 mm: 1 m (3.3 ft)				Casing	Casing		Metal throughout the whole casing	
Close Focus Distance		3.6 mm: 1.7 m (5.6 ft) 6 mm: 4.3m (14.1 ft)				Camera Dimen	( amera Dimensions		244.1 mm × 90.4 mm × 90.4 mm (9.61" × 3.56" × 3.56")	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Net Weight		0.76 kg (1.68 lb)		
	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)	Gross Weight	s Weight		1.02 kg (2.25 lb)	
	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)					
	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)	Ordering Ir	ering Information			
Video		(271.711)	(100.010)	(54.511)	(27.211)	Туре	Part Number		Description	
Frame Rate		CVI: PAL: 1080P@25fps				2MP Camera	DH-HAC- HFW2249TUP	-A-LED	2MP Full-color HDCVI Bullet Camera, P	
		AHD: PAL: 1080P@	PAL: 1080P@25fps NTSC: 1080P@30fps				DH-HAC- HFW2249TUN	-A-LED	2MP Full-color HDCVI Bullet Camera, NTSC	
		TVI: PAL: 1080P@25fps					PFA130-E		Junction Mount	
		CVBS:					PFA130-E+PFA	A152-E	Pole Mount Bracket	
		PAL: 960H NTSC: 960H			Accessories	PFM800-4k		Passive HDCVI Balun		

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

BLC/HLC/WDR/HLC-Pro

120dB

Туре	Part Number	Description			
2140 G	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



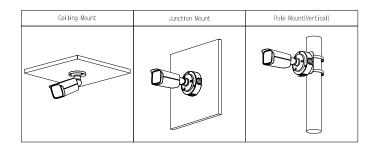
PFA152-E+PFA130-E Pole Mount Bracket + Water-proof Junction Box



PFM321 12V 1A Power Adapter



PFM904 Integrated Mount Tester



# Dimensions (mm[inch])

