

# DH-HAC-HFW2249T-A-LED

2MP Full-color HDCVI Bullet Camera



#### 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.

- \* 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
- $\cdot$  Built-in mic
- · 3.6 mm fixed lens (2.8 mm optional)
- · CVI/CVBS/AHD/TVI switchable
- · IP67, DC 12 V

Full- (olor



#### 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  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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# **Technical Specification**

## Camera

Camera					
Image Sensor		2MP CMOS			
Max. Resolution		1920 (H) × 1080 (V)			
Pixel		2MP			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/3 s-1/100,000 s NTSC: 1/4 s-1/100,000 s			
S/N Ratio		< 65 dB			
Min. Illumination		0.0002 Lux/F1.0, 0 Lux White Light on			
Illumination Distance		20 m (65.6 ft)			
Illuminator On/Off Control		Auto; manual			
Illuminator Number		1			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed lens			
Mount Type		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture		F1.0			
Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 84°; V: 44°; D: 99°			
Iris Type		Fixed iris			
Close Focus Distance		2.8 mm: 1 m (3.3 ft) 3.6 mm: 1.7 m (5.6 ft)			
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)

Noise Reduction 3D NR Smart Light Yes Mirror Off/On Off/On (8 area, rectangle) Privacy Masking Certifications CE (EN55032, EN55024, EN50130-4, EN62368-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) Certifications UL (UL60950-1+CAN/CSA C22.2 No.60950-1) Port Video output choices of CVI/TVI/AHD/CVBS by one Video Output BNC port (DIP Switch) Audio Input One channel built-in mic Power Power Supply 12V ±30% DC Power Consumption Max 4.2W (12V DC, warm light on) Environment -40°C to +60°C (-40°F to 140°F) ; < 95% (non-Operating Temperature condensation) -40°C to +60°C (-40°F to 140°F) ; < 95% (non-Storage Temperature condensation) Protection Grade IP67 Structure Casing Metal throughout the whole casing Camera Dimensions 205 mm × 91 mm × 91 mm (8.1" × 3.6" × 3.6") Net Weight 0.36 kg (0.79 lb) Gross Weight 0.48 kg (1.06 lb)

#### Video

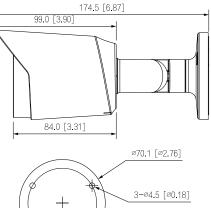
Frame Rate	CVI: PAL: 1080P@25fps NTSC: 1080P@30fps AHD: PAL: 1080P@25fps NTSC: 1080P@30fps TVI: PAL: 1080P@25fps NTSC: 1080P@30fps CVBS: PAL: 960H NTSC: 960H	
Resolution	1080P (1920×1080); (960H×960× 576/960×480)	
BLC	BLC/HLC/WDR/HLC-Pro	
WDR	120dB	
White Balance	Auto; Area white balance	
Gain Control	Auto; manual	

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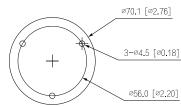
# **Ordering Information**

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

## Dimensions (mm[inch])







#### 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

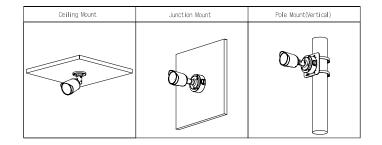


PFM904 Integrated Mount Tester





PFM321 12V 1A Power Adapter



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