

# DH-HAC-HFW1231R-Z-A

2MP Starlight HDCVI IR Bullet Camera



- · Max. 30 fps@1080P
- · Starlight, 130dB true WDR, 3D NR
- · Auto focus, 2.7 mm-12 mm motorized lens
- · CVI/CVBS/AHD/TVI switchable
- · Super Adapt
- · Built-in mic
- · Max. IR length 80 m, Smart IR
- · IP67, 12V DC















#### **System Overview**

Lite Series is suitable for users who requires high quality monitoring products at areasonable price. It is cost effective and offers high performance, which makes it an ideal choice for residential and small-medium business applications. This series offers an option of a wide range of technologies such as Full-color and Starlight, providing various solutions for different scenarios.

#### **Functions**

#### Starlight

With the adoption of large sized high performance sensor and large aperture lens, the camera is able to provide incomparable performance even under extreme lowlight environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

#### **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.

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

#### **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.

#### **Super Adapt**

Embedded with intelligent algorithm, for changing external environment, camera can automatically adjust parameters to present the optimal image, and it solves the trouble of configuration.

#### Advanced 3D NR

3D NR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3D NR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3D NR effectively decreases the band width and saves the storage space.

#### **Smart Illumination**

The camera is designed with IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object comes closer to the camera.

#### 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 mins.

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.

# Lite Series | DH-HAC-HFW1231R-Z-A

Technical Specification					White Balance	Auto/Area WB			
Camera					Gain Control	Auto/Manual			
Pixel		2MP				Noise Reduction	3D NR		
Image Sensor		1/2.8"CMOS				Smart Illumination	Yes		
Max. Resolution	on	1920 (H) × 1080 (V)				Mirror	Yes		
Scanning Syste	em	Progressive				Privacy Masking	Off/On (8 areas, rectangle)		
Electronic Shu	tter Speed	PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				Certifications			
Min. Illuminati	ion	0.002lux/F1.5, 30IRE, 0Lux IR on				Certifications	CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017, EN50130-4:2011+A1:2014, EN 62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)		
Illumination D	istance	80 m (262.5 ft)							
Illuminator On	/Off Control	Auto				Port			
Illuminator Nu	ımber	4 (IR light)				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port		
Pan/Tilt/Rotat	tion Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Audio Input	One channel built-in mic		
Lens						Power	Power		
Lens Type		Motorized vari-focal				Power Supply	12V DC±30%;		
Auto Focus		Yes				Power Consumption	Max. 9.4W (12V DC, IR on)		
Lens Mount		ф14				Environment			
Focal Length		2.7 mm-12 mm				Operating Temperature	$-30^{\circ}$ C to +60°C ( $-22^{\circ}$ F to +140°F); < 95% (noncondensation)		
Max. Aperture		F1.5				Storage Temperature	$-30^{\circ}\text{C}$ to +60°C (–22°F to +140°F); < 95% (noncondensation)		
Field of View		Diagonal: 38°–123° Horizontal: 33°–102° Vertical: 19°–53°				Protection	IP67		
Iris Control		Fixed				Structure			
Close Focus Distance		0.5 m (1.6ft )				Casing	Metal throughout the whole casing		
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Camera Dimensions	209.6 mm × 90.4 mm × 90.4 mm (8.30" × 3.56" × 3.56")		
	2.7 mm	47.6 m (156.2 ft)	19.0 m (62.3 ft)	9.5 m (31.2 ft)	76 m (15.6 ft)	Net Weight	0.55 kg (1.2 lb)		
	12 mm	132.1 m (433.4 ft)	52.9 m (173.6 ft)	26.4 m (86.6 ft)	3.2 m (43.3 ft)	Gross Weight	0.76 kg (1.7 lb)		
Video									
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PAL: 1080P@25fps; NTSC: 1080P@30fps; AHD:

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

TVI:

CVBS: PAL: 960×576H; NTSC: 960×480H;

Auto (ICR)

Video Frame Rate

Resolution

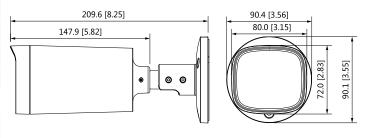
Day/Night

# Lite Series | DH-HAC-HFW1231R-Z-A

Ordering Information								
Туре	Part Number	Description						
2M Camera	DH-HAC-HFW1231RP- Z-A 2.7-12mm	2MP Starlight HDCVI IR Bullet Camera, PAL						
ZIVI Calliera	DH-HAC-HFW1231RN- Z-A 2.7-12mm	2MP Starlight HDCVI IR Bullet Camera, NTSC						
	PFA13G	Junction box						
	PFA130-E	IP66 Junction box						
	PFA152-E	Pole Mount Bracket						
Accessories	PFM800-E	Passive HDCVI Balun						
	PFM321	12V 1A Power Adapter						
	PFM820	UTC Controller						
	PFM904	Integrated Mount Tester						

Celling Mount	Wall Mount	Pole Mount(Vertical)

## Dimensions (mm[inch])



### **Accessories**

## **Optional:**







PFA130-E IP66 Junction box



PFA152-E Pole Mount Bracket



PFM800-E Passive HDCVI Balun



PFM321 12V 1A Power Adapter



PFM820 UTC Controller

