

# DH-HAC-HFW1801RM-A

4K IR HDCVI Fixed-focal Bullet Camera



### Series Overview

The Lite Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-color and starlight, providing various solutions for different scenarios.

### **Functions**

### **Built-in Mic**

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

### **Smart IR Illumination**

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

### Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

- \* The parameters and datasheets below can only be applied to 1801-S3 series.
- · Max. 15 fps@4K
- · Smart IR Illumination.
- · 30 m illumination distance.
- · Super Adapt.
- · Built-in MIC.
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67. 12 VDC.













### Advanced 3DNR

Dahua's advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

### Protection (IP67, Wide Voltage)

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes.

Wide voltage: The camera has  $\pm 30\%$  input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

### 4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio\*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

\* Audio input is available for select HDCVI camera models.

### Long Distance Transmission

HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's test laboratory.

Resolution

Technical Specification							Day/Night	Auto(ICR)/Color/B/W
Camera							BLC	BLC; HLC; WDR
Image Sensor		4K CMOS					WDR	WDR
Max. Resolut	Resolution 3840 (H) × 2160 (V)				White Balance	Auto		
Scanning Syst	tem	Progressive					Gain Control	Auto
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s					Noise Reduction	3D NR
son since shared speed		NTSC: 1/30 s=1/100,000 s					Illumination Mode	Smart IR
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Mirror Certification	Yes
S/N Ratio		>65 dB					Certification	CE-LVD: EN 62368-1;
Illumination Distance		IR: 30 m (98.43 ft)					Certifications	CE-EMC: EN 55032; EN 55035;
Illuminator On/Off Control		Auto/Manual					Audio	
Illuminator Number		3 (IR light)					Built-in Mic	Yes
			Pan: 0°–360°				Camera Audio	CVI
Angle Adjustment		Tilt: 0°–90° Rotation: 0°–360°					Pick-up Distance	8 m (26.25 ft)
Lens					Port			
Lens Type		Fixed-focal					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)
Lens Mount		M12					Power	
Focal Length		2.8 mm; 3.6 mm					Power Supply	12 VDC (±30%)
Max. Aperture		F2.0					Power Consumption	Max 4 W (12 VDC, IR on)
Field of View		2.8 mm: H: 105.5°; V: 56.5°; D: 125.3° 3.6 mm: H: 86.8°; V: 44.6°; D: 104.5°					Environment	
Iris Control		Fixed					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Class Facus Distance		2.8 mm: 1.3 m (4.27 ft)					Operating Humidity	<95% (RH), non-condensing
Close Focus Distance		3.6 mm: 2.1 m (6.89 ft)					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	Lens	Detect	Observe	Recognize	Identify		Storage Humidity	<95% (RH), non-condensing
	2.8 mm	88.0 m ( 288.71 ft)	35.2 m ( 115.49 ft)	17.6 m ( 57.74 ft)	8.8 m ( 28.87 ft)		Protection	IP67
DORI Distance	3.6 mm *DORI (Dete	113.6 m 45.4 m 22.7 m 11.4 m (372.70 ft) (148.95 ft) (74.48 ft) (37.40 ft) ect, Observe, Recognize, Identify) is a standard system				Anti-corrosion Level	Basic Protection  *The products are designed for general use and are applicable even in areas with no specific requirements for anti-corrosion protection.	
	(EN-62676-4	(EN-62676-4) for defining the ability of a person viewing the					Structure	
	video to distinguish persons or objects within a covered area.  The numbers in this table do not reflect intelligent function						Casing Material	Metal
	distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.				stallation		Product Dimensions	166.4 mm × 69.7 mm × 70.0 mm (6.55" × 2.74" × 2.76") (L × W × H)
Video							Net Weight	0.35 kg (0.77 lb)
Video Frame Rate		CVI: PAL: 4K@15 fps; NTSC: 4K@15 fps; AHD: PAL: 4K@15 fps; NTSC: 4K@15 fps; TVI: PAL: 4K@15 fps; NTSC: 4K@15 fps; CVBS: PAL: 960H NTSC: 960H					Gross Weight	0.45 kg (0.99 lb)
							Installation	Wall mount; ceiling mount; vertical pole mount

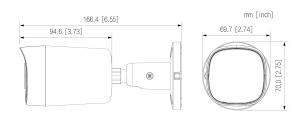
4K (3840 × 2160); 960H (960 × 576/960 × 480)

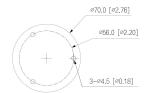
## Lite Series | DH-HAC-HFW1801RM-A

Ordering Information								
Туре	Model	Description						
HDCVI CAMERA	DH-HAC-HFW1801RMN-A	4K IR HDCVI Fixed-focal Bullet Camera,NTSC						
TIDEVI CAWENA	DH-HAC-HFW1801RMP-A	4K IR HDCVI Fixed-focal Bullet Camera,PAL						
	DH-PFA151	Corner Mount Bracket						
	DH-PFA130-E	Water-proof Junction Box						
	G3416GW	G3/4" Water Joint						
	DH-PFA157	Pole Mount Bracket						
Accessories (Optional)	DH-PFA134	Junction Box						
	DH-PFM800-4K	1 Channel Passive HDCVI Balun						
	DH-PFM321-EN	DC12V1A power adapter						
	DH-PFM320D-EN	DC12V2A power adapter						
	PFM904	Integrated Mount Tester						

# Ceiling Mount Junction Mount Pole Mount(Vertical)

### Dimensions (mm[inch])





### Accessories

### Optional:



DH-PFA130-E Water-proof Junction Box



DH-PFA134 Junction Box



DH-PFA151 Corner Mount Bracket



DH-PFA157 Pole Mount Bracket



DH-PFM320D-EN
DC12V2A power adapter



DH-PFM321-EN
DC12V1A power adapter



DH-PFM800-4K 1 Channel Passive HDCVI Balun



G3416GW G3/4" Water Joint



PFM904 Integrated Mount Tester