

DH-HAC-HFW1801R-Z-A

4K IR HDCVI Motorized Vari-Focal Bullet Camera



- * The parameters and datasheets below can only be applied to 1801-S3 series.
- Max. 15fps@4K.
 - 3D NR.
 - 80 m illumination distance.
 - Built-in Mic.
 - Super Adapt.
 - 2.7-13.5 mm motorized lens.
 - CVI/CVBS/AHD/TVI switchable.
 - IP67, 12 VDC.



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.

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.

Long Distance Transmission

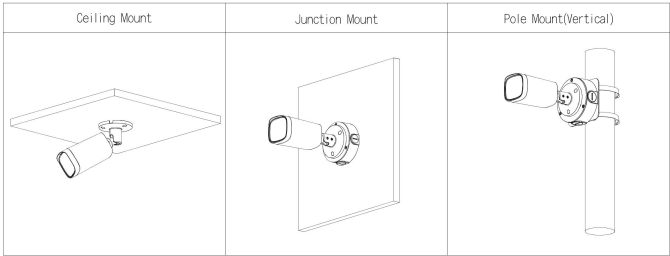
HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's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

Technical Specification					
Camera					
Image Sensor		4K CMOS			
Max. Resolution		3840 (H) × 2160 (V)			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s–1/100,000 s NTSC: 1/30 s–1/100,000 s			
Min. Illumination		0.01 lux@F1.6 (Color, 30 IRE) 0.001 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		IR: 80 m (262.47 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		4 (IR light)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Auto Focus		No			
Lens Mount		ϕ14			
Focal Length		2.7 mm–13.5 mm			
Max. Aperture		F1.6			
Field of View		H: 32.7°–111.8°; V: 18.4°–58.3°; D: 37.5°–135.2°			
Iris Control		Fixed			
Close Focus Distance		1.2 m (3.94 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	87.2 m (286.09 ft)	34.9 m (114.50 ft)	17.4 m (57.09 ft)	8.7 m (28.54 ft)
	T	269.3 m (883.53 ft)	107.7 m (353.35 ft)	53.9 m (176.84 ft)	26.9 m (88.25 ft)
	*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				
Video					
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@50 fps NTSC: 960H@60 fps			
Resolution		4K (3840 × 2160); 960H (960 × 576/960 × 480)			
Day/Night		Auto(ICR)/Color/B/W			

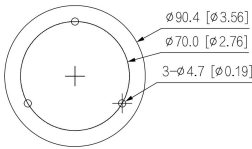
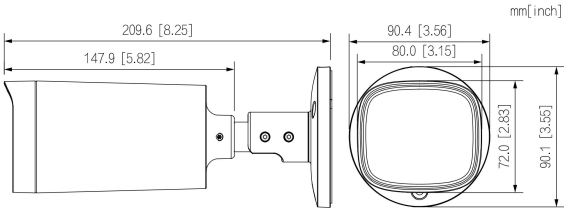
BLC	BLC; HLC; WDR
WDR	WDR
White Balance	Auto
Gain Control	Auto/Manual
Noise Reduction	3D NR
Illumination Mode	Smart IR
Mirror	Yes
Certification	
Certifications	CE-LVD: EN 62368-1 CE-EMC: EN 55032; EN 55035
Audio	
Built-in Mic	Yes
Camera Audio	CVI; TVI
Pick-up Distance	8 m (26.25 ft)
Port	
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)
Power	
Power Supply	12 VDC (±30%)
Power Consumption	Max 7.4 W (12 VDC, IR on)
Environment	
Operating Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Operating Humidity	<95% (RH), non-condensing
Storage Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Storage Humidity	<95% (RH), non-condensing
Protection	IP67
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.
Structure	
Casing Material	Metal
Product Dimensions	209.9 mm × 90.4 mm × 90.4 mm (8.26" × 3.56" × 3.56") (L × W × H)
Net Weight	0.54 kg (1.19 lb)
Gross Weight	0.70 kg (1.54 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

Ordering Information

Type	Model	Description
HDCVI CAMERA	DH-HAC-HFW1801RN-Z-A	4K IR HDCVI Motorized Vari-Focal Bullet Camera,NTSC
	DH-HAC-HFW1801RP-Z-A	4K IR HDCVI Motorized Vari-Focal Bullet Camera,PAL
Accessories (Optional)	DH-PFA151	Corner Mount Bracket
	DH-PFA130-E	Water-proof Junction Box
	G3416GW	G3/4" Water Joint
	DH-PFA152-E	Pole Mount Bracket
	DH-PFA135	Junction Box
	DH-PFM800-4K	1 Channel Passive HDCVI Balun
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM325D-1210EN	DC12V 1A Power Adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])



Accessories

Optional:



DH-PFA151
Corner Mount Bracket



DH-PFA130-E
Water-proof Junction Box



G3416GW
G3/4" Water Joint



DH-PFA152-E
Pole Mount Bracket



DH-PFA135
Junction Box



DH-PFM800-4K
1 Channel Passive HDCVI
Balun



DH-PFM321-EN
DC12V1A power adapter



DH-PFM325D-1210EN
DC12V 1A Power Adapter



DH-PFM320D-EN
DC12V2A power adapter



PFM904
Integrated Mount Tester