

DH-HAC-HFW1801R-Z-A

4K Starlight HDCVI Motorized Vari-focal IR Bullet Camera



- * The parameters and datasheets below can only be applied to 1801-S2 series.
- · Max. 15 fps@4K.
- 120 dB true WDR, 3D NR.
- · Smart IR Illumination.
- 80 m illumination distance.
- · Super Adapt.
- · Built-in MIC.
- · Auto focus, 2.7 mm-13.5 mm motorized lens.
- · CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.

System 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

Wide Dynamic Range

With its advanced Wide Dynamic Range technology (WDR), the camera captures highly detailed images and produces high-definition recordings in high-contrast lighting conditions, and in scenes with backlighting or shadows.

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.

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.













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.

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.

Broadcast-quality Audio

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.

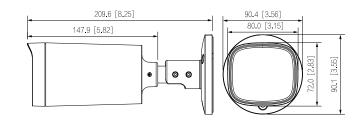
Technical	Specification	on					BLC	BLC; HLC; WDR; HLC-Pro
Camera							WDR	120 dB
Pixel		8 MP					White Balance	Auto;Area white balance
Image Sensor		4K CMOS					Gain Control	Auto/Manual
Max. Resolution		3840 (H) × 2160 (V)					Noise Reduction	3D NR
Scanning System		Progressive					Motion Detection	Yes
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s					Illumination Mode	Smart IR
Min. Illumination		0.01 lux@F1.5 (Color, 30 IRE)					Defog	Electronic defog
		0.001 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)					Digital Zoom	4×
S/N Ratio		>65 dB					Mirror	Yes
Illumination Distance		80 m (262.47 ft)					Privacy Masking	Off/On (8 areas, rectangle)
Illuminator On/Off Control		Auto/Manual					Certification	
Illuminator N	Illuminator Number		4 (IR light)				CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°						FCC: 47 CFR FCC Part 15, Subpart B;
Lens							Port	
Lens Type		Motorized Vari-focal					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Auto Focus		Yes					Audio Input	One channel built-in MIC (-A)
Lens Mount		ф14					Power	
Focal Length		2.7 mm-13.5 mm					Power Supply	12 VDC ± 30% (It is recommended to use a power adapter to supply the power for one camera)
Max. Aperture		F1.5					Power Consumption	Max 10.6W (12 VDC, IR on)
Field of View		Horizontal: 114°–32° Vertical: 58°–17°					Environment	
Iris Control		Diagonal: 138°–36° Fixed					Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Close Focus Distance		0.8m					Operating Humidity	<95% (RH), non-condensing
	Lens	Detect	Observe	Recognize	Identify		Storage Temperature	−30 °C to +60 °C (−22 °F to +140 °F)
DORI	W	85.3 m	34.1 m	17.1 m	8.5 m		Protection	IP67
Distance	Т	(279.86 ft) 280.0 m	(111.88 ft) 112.0 m	(56.10 ft) 56.0 m	(27.89 ft) 28.0 m		Structure	
Video	ı	(918.64 ft)	(367.45 ft)	(183.73 ft)	(91.87 ft)		Casing Material	Metal
Video		CVI					Product Dimensions	90.4 mm × 90.1mm ×209.6 mm (3.56" × 3.55" × 8.25")
Video Frame Rate		CVI: PAL: 4K@15 fps; 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 4K@15 fps; 5M@25 fps; 4M@30 fps; 1080p@30 fps TVI: PAL: 4K@15 fps NTSC: 4K@15 fps AHD: PAL: 4K@15 fps NTSC: 4K@15 fps CVBS: PAL: 960H NTSC: 960H					Net Weight	0.55 kg (1.21 lb)
							Gross Weight	0.72 kg (1.59 lb)
							Installation	Wall mount; ceiling mount; vertical pole mount
Resolution		4K (3840 x 2160); 5M (2880 x 1620); 4M (2560 x 1440); 1080p (1920 x 1080); 960H (960 x 576/960 x 480)						
Day/Night		Auto(ICR)/Color/B/W						

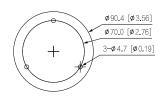
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Ordering Information							
Туре	Part Number	Description					
4K Camera	DH-HAC-HFW1801RP- Z-A	4K HDCVI IR Bullet Camera, PAL					
4K Calliela	DH-HAC-HFW1801RN- Z-A	4K HDCVI IR Bullet Camera, NTSC					
	PFA130-E	Water-proof Junction Box					
	PFA152-E	Pole Mount Bracket					
Accessories (Optional)	PFM800-4K	1-CH Passive Video Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					

Ceiling Mount Wall Mount Pole Mount(Vertical)

Dimensions (mm[inch])





Accessories

Optional:



PFA130-E Water-proof Junction Box



PFA152-E Pole Mount Bracket



PFM800-4K 1-CH Passive Video Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester