

DH-HAC-HFW1801TH-I8

4K Starlight HDCVI Fixed IR Bullet Camera



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.

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.

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.

- * 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.
- · 3.6 mm fixed lens (2.8/6 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.













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.

Lite Series | DH-HAC-HFW1801TH-I8

CVBS: PAL: 960H NTSC: 960H

Auto(ICR)/Color/B/W

Resolution

Day/Night

4K (3840 x 2160); 5M (2880 x 1620); 4M (2560 x 1440); 1080p (1920 x 1080); 960H (960 x 576/960 x 480)

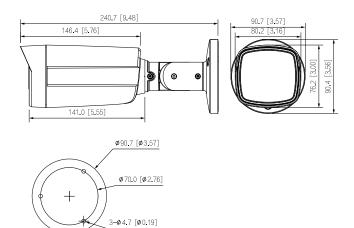
	C5 B11							
Technical Specification							BLC	BLC; HLC; WDR; HLC-Pro
Camera							WDR	120 dB
Pixel		8 MP					White Balance	Auto;Area white balance
Image Sensor		4K CMOS					Gain Control	Auto/Manual
Max. Resolution		3840 (H) × 2160 (V)					Noise Reduction	3D NR
Scanning System		Progressive					Smart Illumination	Smart IR
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s					Defog	Electronic defog
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Mirror Privacy Masking	Yes Off/On (8 areas, rectangle)
S/N Ratio		>65 dB					Certification	
Illumination Distance		80 m (262.47 ft)					Certifications	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
Illuminator On/Off Control		Auto/Manual						
Illuminator Number		2 (IR light)					Port	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens							Power	
Lens Type		Fixed-focal					Power Supply	12 VDC ± 30%
Lens Mount		M12					Power Consumption	Max 6.4 W (12 VDC, IR on)
Focal Length		2.8 mm; 3.6 mm; 6 mm					Environment	
Max. Aperture		F2.0					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
		2.8 mm: H: 106°; V: 56°; D: 125°					Operating Humidity	<95% (RH), non-condensing
Field of View		3.6 mm: H: 88°; V: 46°; D: 105° 6 mm H: 55°; V: 31°; D: 62°					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Iris Control		Fixed					Protection	IP67
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 1.9 m (6.23 ft) 6 mm: 3.5 m (11.48 ft)					Structure	
							Casing Material	Metal front cover + plastic rear barrel + metal bracket
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Product Dimensions	240.7 mm × 90.7 mm × 90.4 mm (9.48" × 3.57" × 3.56")
	2.8 mm	88 m (288.71 ft)	35.2 m (115.49 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)		Packaging Dimensions	299 mm × 119 mm × 111 mm (11.77" × 4.69" × 4.37")
	3.6 mm	106.7 m (350.07 ft)	42.7 m (140.09 ft)	21.3 m (69.88 ft)	10.7 m (35.10 ft)		Net Weight	0.41 kg (0.90 lb)
	6 mm	154.7 m (507.55 ft)	61.9 m (203.08 ft)	30.9 m (101.38 ft)	15.5 m (50.85 ft)		Gross Weight	0.62 kg (1.36 lb)
Video		,	,	,	,		Installation	Wall mount; ceiling mount; vertical pole mount
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 NTSC: 4K@15 fps CVBS:						

Lite Series | DH-HAC-HFW1801TH-I8

Ordering Information							
Туре	Part Number	Description					
4K Camera	DH-HAC-HFW1801THP- I8	4K HDCVI Fixed IR Bullet Camera, PAL					
4K Calliela	DH-HAC-HFW1801THN- I8	4K HDCVI Fixed IR Bullet Camera, NTSC					
	PFA130-E	Junction Box					
	PFA152-E	Pole Mount Bracket					
Accessories (Optional)	PFM800-4K	Passive HDCVI Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					

Ceiling Mount Wall Mount Pole Mount(Vertical)

Dimensions (mm[inch])



Accessories

Optional:



PFA130-E Junction Box



PFA152-E Pole Mount Bracket



PFM800-4K Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester