

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.

TVI:

AHD:

CVBS: PAL: 960H NTSC: 960H

Video Frame Rate

PAL: 4K@15 fps NTSC: 4K@15 fps

PAL: 4K@15 fps NTSC: 4K@15 fps

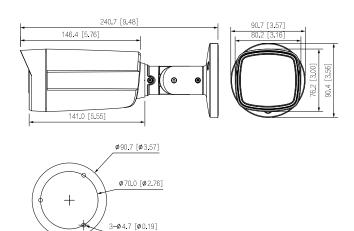
Technical Specification							Resolution	4K (3840 x 2160); 5M (2880 x 1620); 4M (2560 x 1440), 1080p (1920 x 1080); 960H (960 x 576/960 x 480)
Camera							Day/Night	Auto(ICR)/Color/B/W
Pixel		8 MP					BLC	BLC; HLC; WDR; HLC-Pro
Image Sensor		4K CMOS					WDR	120 dB
Max. Resolution		3840 (H) × 2160 (V)					White Balance	Auto;Area white balance
Scanning System		Progressive					Gain Control	Auto/Manual
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s					Noise Reduction	3D NR
		0.01 lux@F2.0 (Color, 30 IRE)					Smart Illumination	Smart IR
Min. Illumination		0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Defog	Electronic defog
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	on, on to areas, rectangle)
Illuminator Number		2 (IR light)					Certification	CF IVID FN C22C0 1
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					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
Lens							Port	
Lens Type		Fixed-focal					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNo port
Lens Mount		M12					Power	
Focal Length		2.8 mm; 3.6 mm; 6 mm					Power Supply	12 VDC ± 30%
Max. Aperture		F2.0					Power Consumption	Max 6.4 W (12 VDC, IR on)
Field of View		2.8 mm: H: 106°; V: 56°; D: 125° 3.6 mm: H: 88°; V: 46°; D: 105° 6 mm H: 55°; V: 31°; D: 62°					Environment	
Iris Control		Fixed					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
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)					Operating Humidity	<95% (RH), non-condensing
							Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Protection	IP67
	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)		Structure	
	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)		Casing Material	Metal front cover + plastic rear barrel + metal bracket
	6 mm	154.7 m	61.9 m	30.9 m	15.5 m		Product Dimensions	240.7 mm × 90.7 mm × 90.4 mm (9.48" × 3.57" × 3.56
	*DORI (Detec	*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					Packaging Dimensions	299 mm × 119 mm × 111 mm (11.77" × 4.69" × 4.37")
	(EN-62676-4)						Net Weight	0.41 kg (0.90 lb)
	this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/						Gross Weight	0.62 kg (1.36 lb)
project des		,					Installation	Wall mount; ceiling mount; vertical pole mount
Video								
			ps; 5M@25 fps fps; 5M@25 f					

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Ordering Information							
Туре	Part Number	Description					
4K Camera	DH-HAC-HFW1801THP- 18	4K HDCVI Fixed IR Bullet Camera, PAL					
4K Camera	DH-HAC-HFW1801THN- 18	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					

Celling 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