

DH-HAC-HFW1801TH-I8-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.
- · 80 m illumination distance.
- · Super Adapt.
- · Built-in MIC.
- · 3.6 mm fixed lens (2.8 mm, 6 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.

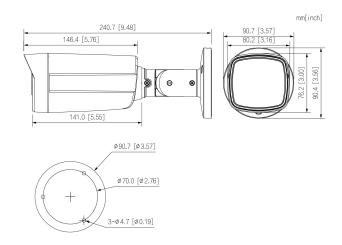
NTSC: 4K@15 fps;

Technical Specification								CVBS:
Camera							Video Frame Rate	PAL: 960H NTSC: 960H
Image Sensor		4K CMOS					Resolution	4K (3840 × 2160); 960H (960 × 576/960 × 480)
Max. Resolution		3840 (H) × 2160 (V)					Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive					BLC	BLC; HLC; WDR
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s					WDR	WDR
·		NTSC: 1/30 s-1/100,000 s 0.01 lux@F2.0 (Color, 30 IRE)					White Balance	Auto
Min. Illumination		0.01 lux@F2.0 (E0101, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Gain Control Noise Reduction	Auto 3D NR
S/N Ratio		>65 dB						
Illumination Distance		IR: 80 m (262.47 ft)					Illumination Mode	Smart IR
Illuminator On/Off Control		Auto/Manual					Mirror	Yes
Illuminator Number		2 (IR light)					Certification	
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90°					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;
Angle Aujustment		Rotation: 0°–360°					Audio	
Lens							Built-in Mic	Yes
Lens Type		Fixed-focal					Camera Audio	CVI
Lens Mount		M12					Pick-up Distance	8 m (26.25 ft)
Focal Length		2.8 mm; 3.6 mm; 6 mm					Port	
Max. Aperture		F2.0					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)
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° 6 mm: H: 54.5°; V: 31.3°; D: 62.3°					Power	
							Power Supply	12 VDC (±30%)
Iris Control		Fixed					Power Consumption	Max 4.9 W (12 VDC, IR on)
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 2.1 m (6.89 ft) 6 mm: 3.5 m (11.48 ft)					Environment	1000 0000 1000
	Lens	Detect	Observe	Pecognize	Identify		Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	Lens			Recognize			Operating Humidity	<95% (RH), non-condensing
	2.8 mm		35.2 m (115.49 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)		Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	3.6 mm	113.6 m	45.4 m	22.7 m	11.4 m		Storage Humidity	<95% (RH), non-condensing
	0.0	(372.70 ft)	(148.95 ft)	(74.48 ft)	(37.40 ft)		Protection	IP67
DORI Distance	6 mm *DORI (Detec	154.7 m 61.9 m 30.9 m 15.5 m (507.55 ft) (203.08 ft) (101.38 ft) (50.85 ft) ct, 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) 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					Structure	
	The numbers						Casing Material	Metal front cover + plastic rear barrel + metal bracket
and commiss		r intelligent function distances, refer to installation ioning manual/project design tool.					Product Dimensions	240.7 mm × 90.7 mm × 90.4 mm (9.48" × 3.57" × 3.56") (L × W × H)
Video		04					Net Weight	0.41 kg (0.9 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;					Gross Weight	0.64 kg (1.41 lb)
							Installation	Wall mount; ceiling mount; vertical pole mount
							Sanatori	The mount of the mount of the mount

Ordering Information								
Туре	Model	Description						
HDCVI CAMERA	DH-HAC-HFW1801THN-I8- A	4K IR HDCVI Fixed-focal Bullet Camera,NTSC						
TIDEVI CAWENA	DH-HAC-HFW1801THP-I8-A	4K IR HDCVI Fixed-focal Bullet Camera,PAL						
	G3416GW	G3/4" Water Joint						
	DH-PFA151	Corner Mount Bracket						
	DH-PFA130-E	Water-proof Junction Box						
	DH-PFA152-E	Pole Mount Bracket						
Accessories (Optional)	DH-PFA135	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 Wall Mount Pole Mount(Vertical)

Dimensions (mm[inch])



Accessories

Optional:



DH-PFA130-E Water-proof Junction Box



DH-PFA135 Junction Box



DH-PFA151 Corner Mount Bracket



DH-PFA152-E 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