

DH-HAC-HFW1801RM-IL-T

4K Smart Dual Light HDCVI Two-way Talk 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

Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

Smart Light+

Equipped with advanced LEDs and beam processing technology, the camera effectively reduces interference of stray light, ensuring concentrated illumination within the lens's field of view. This allows the camera to easily produce clear images that reveal the fine details of targets even in low light conditions.

Smart Dual Light

With its smart dual light mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in the rule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR light to significantly reduce light pollution.

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-IL-T series.
- * In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.000004.1.R.220323 or later version.
- Max. 15 fps@4K.
- · Two-way Talk.
- · Smart Dual Light.
- · Smart Light+
- · 30 m illumination distance.
- · Super Adapt.
- · 3.6 mm fixed lens (2.8 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.

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: 960H

4K (3840 × 2160); 960H (960 × 576/960 × 480)

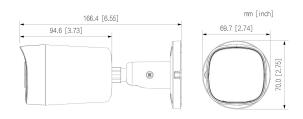
Resolution

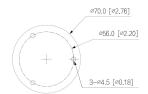
Technical Specification						Day/Night	Auto(ICR)/Color/B/W
Camera						BLC	BLC; HLC; WDR
Image Sensor		4K CMOS				WDR	WDR
Max. Resolution		3840 (H) × 2160 (V)				White Balance	Auto
Scanning System		Progressive				Gain Control	Auto
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s				Noise Reduction	3D NR
		NTSC: 1/30 s-1/100,000 s 0.01 lux@F2.0 (Color, 30 IRE)				Illumination Mode	Smart IR&WL (CVI, TVI); WL Mode; IR Mode
Min. Illumination		0.01 lux@F2.0 (Colol, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				Mirror	Yes
S/N Ratio		>65 dB				Certification	CE IVD. EN 62269 1
Illumination Distance		IR: 30 m (98.43 ft);Warm light: 30 m (98.43 ft)				Certifications	CE-LVD: EN 62368-1 CE-EMC: EN 55032; EN 55035
Illuminator On/Off Control		Auto/Manual				Audio	
Illuminator Number		2 (Multi-core light)				Built-in Mic	Yes
Angle Adjustment		Pan: 0°-360°				Camera Audio	CVI
		Tilt: 0°–90° Rotation: 0°–360°				Pick-up Distance	8 m (26.25 ft)
Lens						Two-way Talk	Yes
Lens Type		Fixed-focal				Speaker	Yes
Lens Mount		M12				Speaker Distance	8 m (26.25 ft)
Focal Length		2.8 mm; 3.6 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°				Power	
Iris Control		Fixed				Power Supply	12 VDC (±30%)
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft)				Power Consumption	Max 6.5 W (12 VDC, IR on)
Close Focus Distance		3.6 mm: 2.1 m (6.89 ft)				Environment	
	Lens	Detect	Observe	Recognize	Identify	Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	2.8 mm	88.0 m (288.71 ft)	35.2 m (115.49 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)	Operating Humidity	<95% (RH), non-condensing
	2.6 ****	113.6 m	45.4 m	22.7 m	11.4 m	Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
DORI	3.6 mm	(372.70 ft) (148.95 f		(74.48 ft)	(37.40 ft)	Storage Humidity	<95% (RH), non-condensing
Distance	*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 distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.					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.
Video						Structure	
Video Frame Rate		CVI: PAL: 4K@15 fps NTSC: 4K@15 fps AHD: PAL: 4K@15 fps TSC: 4K@15 fps TVI: PAL: 4K@15 fps NTSC: 4K@15 fps CVBS: PAL: 960H				Casing Material	Metal
						Product Dimensions	166.4 mm × 69.7 mm × 70.0 mm (6.55" × 2.74" × 2.76") (L × W × H)
						Net Weight	0.35 kg (0.77 lb)
						Gross Weight	0.45 kg (0.99 lb)
						Installation	Wall mount; ceiling mount; vertical pole mount

Ordering Information								
Туре	Model	Description						
HDCVI CAMFRA	DH-HAC-HFW1801RMN-IL- T	4K Smart Dual Light HDCVI Two-way Talk Fixed-focal Bullet Camera,NTSC						
TIDEVI CAIVIENA	DH-HAC-HFW1801RMP-IL-T	4K Smart Dual Light HDCVI Two-way Talk Fixed-focal Bullet Camera,PAL						
	DH-PFA151	Corner Mount Bracket						
	DH-PFA130-E	Water-proof Junction Box						
	G3416GW	G3/4" Water Joint						
	DH-PFA157	Pole Mount Bracket						
Accessories (Optional)	DH-PFA134	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-PFA134 Junction Box



DH-PFA151 Corner Mount Bracket



DH-PFA157 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