

DH-HAC-HFW1801TH-IL-A

4K Smart Dual Light 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

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.

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 Area Lighting

Automatically adjusts the intensity of the brightness and exposure for the left and right areas in the video based on the proportion and position of the targets to reveal more details in the image.

- * The parameters and datasheets below can only be applied to 1801-IL-S3 series.
- * In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.
- · Max. 15 fps@4K.
- · Smart Dual Light.
- · 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.















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.

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.

Technical Specification							Video Frame Rate	CVBS: PAL: 960H
Camera							video Franie Nate	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	DWDR
·		NTSC: 1/30 s-1/100,000 s					White Balance	Auto
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE)					Gain Control	Auto
		0 lux (Illuminator on)					Noise Reduction	3D NR
S/N Ratio		>65 dB					Illumination Mode	Smart IR&WL(CVI,TVI); WL Mode; IR Mode
Illumination Distance		IR: 80 m (262.47 ft); Warm Light: 80 m (262.47 ft)					Mirror	Yes
Illuminator On/Off Control		Auto/Manual					Certification	
Illuminator Number		4 (Multi-core light)					Certifications	CE-LVD: EN 62368-1;
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					A di -	CE-EMC: EN 55032; EN 55035;
							Audio	w.
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		3.6 mm; 6 mm; 2.8 mm					Port	
Max. Apertu	re	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	
		6 mm: H: 54.	6 mm: H: 54.5°; V: 31.3°; D: 62.3°				Power Supply	12 VDC (±30%)
Iris Control		Fixed					Power Consumption	Max 7.2 W (12 VDC, IR on)
Close Focus	Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 2.1 m (6.89 ft)				Environment	
		6 mm: 3.5 m (11.48 ft)					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	Lens	Detect	Observe	Recognize	Identify		Operating Humidity	<95% (RH), non-condensing
	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)		Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	2.6	113.6 m	45.4 m	22.7 m	11.4 m		Storage Humidity	<95% (RH), non-condensing
	3.6 mm	(372.70 ft)	(148.95 ft)	(74.48 ft)	(37.40 ft)		Protection	IP67
DORI Distance	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)		Anti-corrosion Level	Basic Protection
	*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.						Structure	
							Casing Material	Metal front cover + plastic rear barrel + metal bracket
							Product Dimensions	240.7 mm \times 90.7 mm \times 90.4 mm (9.48" \times 3.57" \times 3.56") (L \times W \times H))
							Net Weight	0.42 kg (0.93 lb)
Video							Gross Weight	0.59 kg (1.3 lb)
		CVI:					Installation	Wall mount; ceiling mount; vertical pole mount
Video Frame Rate		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;						

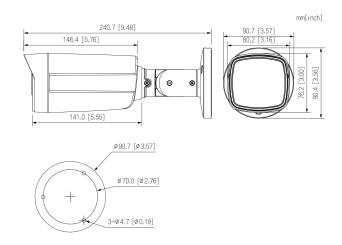
Ordering Information								
Туре	Model	Description						
HDCVI CAMERA	DH-HAC-HFW1801THN-IL-A	4K Smart Dual Light HDCVI Fixed-focal Bullet Camera,NTSC						
IIDOVI CAIVIENA	DH-HAC-HFW1801THP-IL-A	4K Smart Dual Light HDCVI Fixed-focal Bullet Camera,PAL						
	DH-PFA130-E	Water-proof Junction Box						
	G3416GW	G3/4" Water Joint						
	DH-PFA151	Corner Mount Bracket						
	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						

Wall Mount

Pole Mount(Vertical)

Dimensions (mm[inch])

Ceiling Mount



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