

DH-HAC-HFW1801RM-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.

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.

- * 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.
- · 30 m illumination distance.
- · Super Adapt.
- · Built-in Mic.
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.













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.

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.

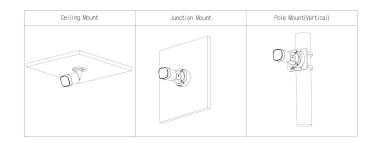
* Audio input is available for select HDCVI camera models.

Resolution

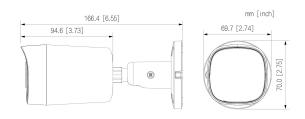
Technical	Specificatio	n				Day/Night	Auto(ICR)/Color/B/W
Camera						BLC	BLC; HLC; WDR
Image Sensor		4K CMOS				WDR	DWDR
Max. Resolution 38		3840 (H) × 2160 (V)				White Balance	Auto
Scanning System		Progressive				Gain Control	Auto
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s				Noise Reduction	3D NR
Electronic Shutter Speed		NTSC: 1/30 s-1/100000 s				Illumination Mode	Smart IR&WL(CVI,TVI); WL Mode; IR Mode
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				Mirror	Yes
S/N Ratio		>65 dB				Certification	25 1/17 51/ 52252 4
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		Motation o				Port	
Lens Type		Fixed-focal				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one E port (DIP Switch)
Lens Mount		M12				Power	
Focal Length		2.8 mm; 3.6 mm				Power Supply	12 VDC (±30%)
Max. Aperture		F2.0				Power Consumption	Max 4.1 W (12 VDC, IR on)
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°				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)				Operating Humidity	<95% (RH), non-condensing
Close Focus L	ristance	3.6 mm: 2.1 m (6.89 ft)				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	Lens	Detect	Observe	Recognize	Identify	Storage 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)	Protection	IP67
		113.6 m	45.4 m	22.7 m	11.4 m	Anti-corrosion Level	Basic Protection
DORI	3.6 mm	mm		5 ft) (74.48 ft)	(37.40 ft)	Structure	
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system					Casing Material	Metal
	(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.				d area.	Product Dimensions	166.4 mm × 69.7 mm × 70.0 mm (6.55" × 2.74" × 2. (L × W × H)
					stallation	Net Weight	0.34 kg (0.75 lb)
Video		J	, , 000/6			Gross Weight	0.44 kg (0.97 lb)
Video		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; VSC: 4K@15 fps; PAL: 960H NTSC: 960H					

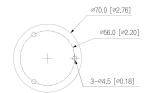
4K (3840 × 2160); 960H (960 × 576/960 × 480)

Ordering Information								
Туре	Model	Description						
HDCVI CAMERA	DH-HAC-HFW1801RMN-IL- A	4K Smart Dual Light HDCVI Fixed-focal Bullet Camera,NTSC						
HDEVI CAIVIENA	DH-HAC-HFW1801RMP-IL- A	4K Smart Dual Light HDCVI Fixed-focal Bullet Camera,PAL						
	G3416GW	G3/4" Water Joint						
	DH-PFA151	Corner Mount Bracket						
	DH-PFA130-E	Water-proof Junction Box						
	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						



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