

DH-HAC-HFW1801C-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.

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.

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.

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.

- * The parameters and datasheets below can only be applied to 1801-IL 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.
- · 120 dB true WDR. 3D NR.
- · Smart Dual Light.
- · 20 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.













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.

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.

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Technical Specification							
Camera							
Image Sensor		4K CMOS					
Max. Resolution		3840 (H) x 2160 (V)					
Scanning System		Progressive					
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s					
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					
S/N Ratio		>65 dB					
Illumination Distance		IR: 20 m (65.62 ft) Warm light: 20 m (65.62 ft)					
Illuminator On/Off Control		Auto;Manual					
Illuminator Number		1 (Warm light);1 (IR light)					
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					
Lens							
Lens Type		Fixed-focal					
Auto Focus		No					
Lens Mount		M12					
Focal Length		2.8 mm; 3.6 mm					
Max. Aperture		F2.0					
Field of View		2.8 mm: H: 106°; V: 56°; D: 125° 3.6 mm: H: 88°; V: 46°; D: 105°					
Iris Control		Fixed					
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 1.9 m (6.23 ft)					
	Lens	Detect	Observe	Recognize	Identify		
DORI Distance	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)		
	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)		
Video							
Video Frame Rate		CVI: PAL: 4K@15 fps; 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 4K@15 fps; 5M@25 fps; 4M@30 fps; 1080p@30 fps TVI: PAL: 4K@15 fps NTSC: 4K@15 fps AHD: PAL: 4K@15 fps NTSC: 960H					
Resolution		4K (3840 × 2160); 5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)					
Day/Night		Auto(ICR)/Color/B/W					
BLC		BLC; HLC; WDR; HLC-Pro					

WDR	120 dB		
White Balance	Auto;Area white balance		
Gain Control	Manual;Auto		
Noise Reduction	3D NR		
Illumination Mode	Smart IR&WL WL Mode; IR Mode		
Defog	Electronic defog		
Mirror	Yes		
Privacy Masking	Off/On (8 areas, rectangle)		
Certification			
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;		
Port			
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port		
Audio Input	One channel built-in Mic (-A)		
Power			
Power Supply	12 VDC ± 30%		
Power Consumption	Max 4.2 W (12 VDC, LED on)		
Environment			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	<95% (RH), non-condensing		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Storage Humidity	<95% (RH), non-condensing		
Protection	IP67		
Anti-corrosion Level	Basic Protection		
Structure			
Casing Material	Metal front cover + plastic		
Product Dimensions	161.3 mm x 69.7 mm x 70.0 mm (6.35" x 2.75" x 2.75")		
Net Weight	0.22 kg (0.49 lb)		
Gross Weight	0.32 kg (0.71 lb)		
Installation	Wall mount; ceiling mount; vertical pole mount		

Lite Series | DH-HAC-HFW1801C-IL-A

Ordering Information						
Туре	Model	Description				
	DH-HAC-HFW1801CP-IL-A	4K Smart Dual Light HDCVI Fixed-focal Bullet Camera, PAL				
HDCVI CAMERA	DH-HAC-HFW1801CN-IL-A	4K Smart Dual Light HDCVI Fixed-focal Bullet Camera , NTSC				
	DH-PFA130-E	Water-proof Junction Box				
	DH-PFA151	Corner mount bracket				
	G3416GW	G3/4" Water Joint				
	DH-PFA152-E	Pole Mount Bracket				
	DH-PFA134	Junction box				
Accessories (Optional)	DH-PFM321-EN	DC12V1A power adapter				
	DH-PFM321D-EN	DC12V 1A power adapter				
	DH-PFM320D-EN	DC12V2A power adapter				
	DH-PFM800-4K	1 Channel Passive HDCVI Balun				
	PFM904	Integrated Mount Tester				

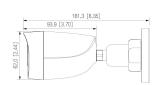
Junction Mount

Dimensions (mm[inch])

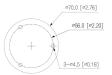
Ceiling Mount

mm [inch]

Pole Mount(Vertical)







Accessories

Optional:



DH-PFA130-E Water-proof Junction Box



DH-PFA151 Corner mount bracket



DH-PFA152-E Pole Mount Bracket



DH-PFA134 Junction box



DH-PFM321-EN
DC12V1A power adapter



DH-PFM321D-EN
DC12V 1A power adapter



DH-PFM320D-EN DC12V2A power adapter



DH-PFM800-4K 1 Channel Passive HDCVI Balun



PFM904 Integrated Mount Tester