

# DH-HAC-HFW1500CM-IL-A 5MP Smart Dual Light HDCVI Fixed-focal Bullet Camera



#### System 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

#### 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.

#### 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.

#### 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 ±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 to1500-IL series.
\* In order to use the 5MP 16:9 and the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.

- · Max 25 fps@5MP (16:9 video output).
- · Smart Dual Light.
- · 20 m illumination distance.
- · Super Adapt.
- $\cdot$  Built-in MIC.
- $\cdot$  3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.

· IP67, 12 VDC.



#### 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.

#### Simplicity

HDCVI technology inherits the simplicity of traditional analog surveillance systems, making it a great mechanism for protecting your valuables. HDCVI can be upgraded from the traditional analog system without replacing the existing coaxial cabling. Its plug and play design enables it to produce high-definition videos during surveillance without the hassle of configuring a network.

#### Multi-language OSD

The OSD offers multiple functions to meet the many requirements of a monitoring scene, such as backlight mode, day/night mode, white balance, privacy mask, and motion detection. 11 languages are available for OSD: Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

## Lite Series | DH-HAC-HFW1500CM-IL-A

**Technical Specification** 

Camera						
Image Sensor		5 MP CMOS				
Max. Resolution		2880 (H) × 1620 (V)				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s				
Min. Illumination		0.05 lux@F1.6 (Color, 30 IRE) 0.005 lux@F1.6 (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				
Lens Mount		M12				
Focal Length		2.8 mm; 3.6 mm				
Max. Aperture		F1.6				
Field of View		2.8 mm: H: 106°; V: 56°; D: 125° 3.6 mm: H: 92°; V: 48°; D: 109°				
Iris Control		Fixed				
Close Focus Distance		2.8 mm: 0.8 m (2.62 ft) 3.6 mm: 1.3 m (4.27 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)	
	3.6 mm	76 m (249.34 ft)	30.4 m (99.74 ft)	15.2 m (49.87 ft)	7.6 m (24.93 ft)	
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to					

(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.

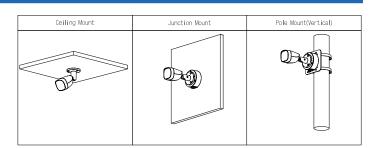
Video

Video Frame Rate	CVI: PAL: SM@25 fps; 4M@25 fps; 1080p@25 fps; NTSC: 5M@25 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H	
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)	
Day/Night	Auto(ICR)/Color/B/W	

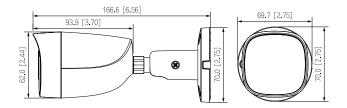
BLC	BLC; HLC; DWDR		
WDR	DWDR		
White Balance	Auto; Area white balance		
Gain Control	Auto/Manual		
Noise Reduction	2D NR		
Illumination Mode	Smart IR&WL WL Mode; IR Mode		
Mirror	Yes		
Privacy Masking	Off/On (8 areas, rectangle)		
Certification			
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14		
Port			
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port		
Audio Input	One channel built-in mic		
Power			
Power Supply	12 VDC ± 30%		
Power Consumption	Max 3.1 W (12 VDC, WLED 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		
Structure			
Casing Material	Metal		
Product Dimensions	166.6 mm × 69.7 mm × 70 mm (6.56" × 2.74" × 2.76")		
Net Weight	0.33 kg (0.73 lb)		
Gross Weight	0.41 kg (0.90 lb)		
Installation	Wall mount; ceiling mount; vertical pole mount		

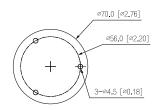
## Lite Series | DH-HAC-HFW1500CM-IL-A

Ordering Information					
Туре	Model	Description			
5M Camera	DH-HAC-HFW1500CMP- IL-A	5MP Smart Dual Light HDCVI Fixed-focal Bullet Camera, PAL			
	DH-HAC-HFW1500CMN- IL-A	5MP Smart Dual Light HDCVI Fixed-focal Bullet Camera, NTSC			
Accessories (Optional)	PFA134	Junction Box			
	PFA130-E	Water-proof Junction Box			
	PFA152-E	Pole Mount Bracket			
	PFM800-4K	1-CH Passive Video Balun			
	PFM321D	12V 1A Power Adapter			
	PFM904	Integrated Mount Tester			



### Dimensions (mm [inch])





#### Accessories

#### Optional:



PFA134 Junction Box



PFM800-4K 1 Channel Passive HDCVI Balun



PFA130-E Water-proof Junction Box



PFM321D 12V 1A Power Adapter



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PFA152-E
Pole Mount
Bracket
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PFM904 Integrated Mount Tester

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