

# DH-HAC-HFW1500D 5MP Starlight HDCVI IR Bullet Camera



- The parameters and datasheets below can only be applied to 1500-52 series.
  In order to use the SMP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000010.R.200908 or later version.
- · Max 25 fps@5MP (16:9 video output)
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (6 mm, 8 mm optional)
- · Max. IR length 80 m, Smart IR
- · IP67, DC12V



#### System Overview

Experience 5MP full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 5MP HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance makes the camera an ideal choice for SMB solutions.

#### Functions

#### 4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio\*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the XVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

\* Audio input is available for some models of HDCVI cameras.

#### Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700 m for 5MP HD video via coaxial cable, and up to 300 m via UTP cable.\*

\*Actual results verified by real-scene testing in Dahua's test laboratory.

#### Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

#### Smart IR

The camera is designed with IR LED illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

#### **Multi-formats**

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu. This feature makes the camera to be compatible with most end users' existing HD/SD DVRs.

#### Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

#### Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting  $\pm$ 30% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

## Lite Series | DH-HAC-HFW1500D

Technical S	pecification					
Camera						
Image Sensor		1/2.7 inch CM	/2.7 inch CMOS			
Max. Resolution		2880 (H) × 1620 (V)				
Pixel		5MP				
Scanning Syste	m	Progressive				
Electronic Shut	ter Speed	PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s				
S/N Ratio		>65 dB				
Min. Illuminatio	on	0.01 Lux/F1.6, 30IRE, 0 Lux IR on				
		80 m (262.5 ft)				
Illumination Or	n/Off Control	Auto; manua	I			
Illuminator Nur	mber	2				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–87° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Mount Type		M12				
Focal Length		3.6 mm; 6 mm; 8 mm				
Max. Aperture		F1.6				
Field of View		6 mm: 65° × 9 (diagonal × h 8 mm: 48° × 9	orizontal × ver 57° × 30° orizontal × ver	tical)		
Iris Type		Fixed iris				
Close Focus Distance		3.6 mm: 1.6 m (5.2 ft) 6 mm: 3.1 m (10.2 ft) 8 mm: 4.9 m (16.1 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	3.6 mm	80 m (262.5 ft)	32 m (105.0 ft)	16 m (52.5 ft)	8 m (26.2 ft)	
	6 mm	120 m (393.7 ft)	48 m (157.5 ft)	24 m (78.7 ft)	12 m (39.4 m)	
	8 mm	150.4m (493.4 ft)	60.2 m (197.5 ft)	30.1 m (98.8 ft)	15 m (49.2 ft)	

Video	Vi	deo	
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Frame Rate	CVI: PAL: 5M@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); 960 H (960 × 576/960 × 480)
Day/Night	Auto switch by ICR

BLC	BLC/HLC/DWDR
WDR	DWDR
White Balance	Auto; manual
Gain Control	Auto; manual
Noise Reduction	2D NR
Smart IR	Yes
Mirror	Off/On
Privacy Masking	Off/On (8 area, rectangle)
Certifications	
Certifications	CE (EN 55032:2015, EN 61000-3-2:2014, EN 61000-3- 3:2013, EN 55024:2010+A1:2015, EN 55035:2017, EN 50130-4:2011+A1:2014, EN 62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Port	
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Power	
Power Supply	12V ±30% DC
Power Consumption	Max 4.9W (12V DC, IR on)
Environment	
Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non- condensation)
Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non- condensation)
Protection Grade	IP67
Structure	
Casing	Metal throughout the whole casing
Camera Dimensions	241.8 mm × 90.4 mm × 90.4 mm ( 9.52" × 3.56" × 3.56" )
Net Weight	0.59 kg (1.30 lb)
Gross Weight	0.87 kg (1.92 lb)

### Lite Series | DH-HAC-HFW1500D

Ordering In	nformation		Ceiling Mount	Junction Mount	Pole Mount(
Туре	Part Number	Description			
	DH-HAC-HFW1500DP 3.6mm	5MP HDCVI IR Bullet Camera			
5MP Camera	DH-HAC-HFW1500DN 3.6mm		Ore		
	DH-HAC-HFW1500DP 6mm				
	DH-HAC-HFW1500DN 6mm			·	
	DH-HAC-HFW1500DP 8mm		Dimensions (mm[i	nch])	
	DH-HAC-HFW1500DN 8mm		4	241.8 [9.52]	-
Accessories	PFA135	Junction Box	163.5 [6.44		
	PFA130-E	IP66 Junction Box (For use alone or with PFA152-E pole mount)			
	PFA152-E	Pole Mount Bracket (For use with PFA130-E junction box)			
	PFM800-4K	Passive HDCVI Balun			
	PFM321D	12V 1A Power Adapter			
	PFM904	Integrated Mount Tester			

90.4 [3.56]

### Accessories

#### **Optional:**



PFA135 Junction Box



PFM800-4K Passive HDCVI Balun





PFM321D 12V 1A Power Adapter



PFA152-E Pole Mount Bracket (For use with PFA130-E junction box)



PFM904 Integrated Mount Tester