

DH-HAC-HFW1501CM(-A)

5MP Starlight HDCVI IR Bullet Camera



* The parameters and datasheets below can only be applied to 1501-S2 series.
* In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000001.0.R.200908 or later version.

- Max 25 fps@5MP (16:9 video output)
- CVI/CVBS/AHD/TVI switchable
- 3.6 mm fixed lens (2.8 mm optional)
- Max. IR length 30m, Smart IR
- Built-in mic(-A)
- 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 ±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.

Technical Specification							WDR	DWDR
Camera								
Image Sensor		1/2.7 inch CMOS						
Max. Resolution		2880 (H) × 1620 (V)						
Pixel		5MP						
Scanning System		Progressive						
Electronic Shutter Speed		PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s						
S/N Ratio		>65 dB						
Min. Illumination		0.01 Lux/F1.6, 30IRE, 0 Lux IR on						
Illumination Distance		30 m (98.4 ft)						
Illuminator On/Off Control		Auto; manual						
Illuminator Number		3						
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°						
Lens								
Lens Type		Fixed-focal						
Mount Type		M12						
Focal Length		2.8 mm; 3.6 mm						
Max. Aperture		F1.6						
Field of View		2.8 mm: 132° × 111° × 58° (diagonal × horizontal × vertical) 3.6 mm: 109° × 92° × 48° (diagonal × horizontal × vertical)						
Iris Type		Fixed iris						
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.2 ft)						
DORI Distance	Lens	Detect	Observe	Recognize	Identify			
	2.8 mm	63.6 m (208.7 ft)	25.4 m (83.3 ft)	12.7 m (41.7 ft)	6.4 m (21.0ft)			
	3.6 mm	80 m (262.5 ft)	32 m (105.0 ft)	16 m (52.5 ft)	8 m (26.2 ft)			
Video								
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						
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								
Audio Interface		One channel built-in mic (-A)						
Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port						
Power								
Power Supply		12V ±30% DC						
Power Consumption		Max 3.7W (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		166.6mm×69.7mm×70.0mm (6.56"x2.75"x2.75")						
Net Weight		0.33 kg (0.73 lb)						
Gross Weight		0.43 kg (0.95 lb)						

Ordering Information

Type	Part Number	Description
5MP Camera	DH-HAC-HFW1501CMP 2.8mm	5MP HDCVI IR Bullet Camera
	DH-HAC-HFW1501CMN 2.8mm	
	DH-HAC-HFW1501CMP-A 2.8mm	
	DH-HAC-HFW1501CMN-A 2.8mm	
	DH-HAC-HFW1501CMP 3.6mm	
	DH-HAC-HFW1501CMN 3.6mm	
	DH-HAC-HFW1501CMP-A 3.6mm	
	DH-HAC-HFW1501CMN-A 3.6mm	
Accessories	PFA134	Junction Box
	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

Accessories

Optional:



PFA134
Junction box



PFA130-E
IP66 Junction Box
(For use alone or with
PFA152-E pole mount)



PFA152-E
Pole Mount Bracket
(For use with PFB204W)



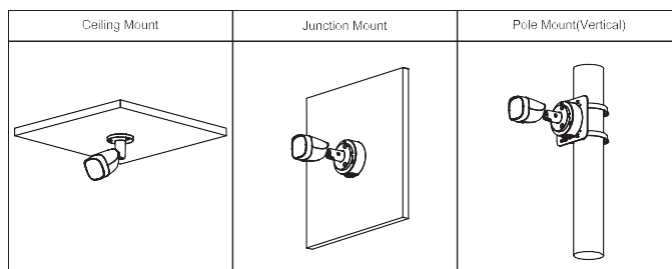
PFM800-4K
Passive HDCVI Balun



PFM321D
12V 1A Power Adapter



PFM904
Integrated Mount Tester



Dimensions (mm[inch])

