

DH-HAC-HFW2501CM-A

5MP Starlight HDCVI IR Bullet Camera



System Overview

Experience 5MP full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Pro 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 120 dB true WDR and a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance make 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.

Starlight

With the adoption of large sized high performance sensor, the camera is able to provide incomparable performance even under extreme lowlight environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

- * * The parameters and datasheets below can only be applied to 2501-S2 series.
- Max 25 fps@5MP (16:9 video output)
- · Starlight, 120 dB true WDR, 3D NR
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (2.8 mm optional)
- \cdot Built-in mic
- · Max. IR length 30 m, Smart IR
- · IP67, DC12V±30%



Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise,

guaranteeing the quality and effectiveness of collected audio information.

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 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 comes closer to the camera.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology,vivid pictures are achieved even in the most intense contrast lighting conditions. True WDR (120dB) optimizes both the bright and dark areas of ascene at the same time to provide usable video.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness,especially under limited lighting condition. Besides, the advanced 3DNR

effectively decreases the band width and saves the storage space.

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 4 KV lightning rating provides protection against the camera and its structure from the effects of lightning.

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Technical Specification

Camera

Camera					
Image Sensor		1/2.7 inch CMOS			
Max. Resolution		2880 (H) × 1620 (V)			
Pixel		5 MP			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/3 s-1/100,000 s NTSC: 1/4 s-1/100,000 s			
S/N Ratio		> 65 dB			
Min. Illumination		0.001 Lux/F1.6, 30IRE, 0Lux 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° x 111°x 58° (diagonal x horizontal x vertical) 3.6 mm: 109° x 92°x 48° (diagonal x horizontal x 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 (21.0 ft)
	3.6 mm	80 m (262.5 ft)	32 m (105.0 ft)	16 m (52.5 ft)	8 m (26.2 ft)

White Balance	Auto / Manual		
Gain Control	Auto / Manual		
Noise Reduction	2D NR/3D NR		
Smart IR	Yes		
Mirror	Off/On		
Privacy Masking	Off/On (8 areas, rectangle)		
Certifications			
Certifications	CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017, EN50130-4:2011+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		
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)		
Power			
Power Supply	DC 12V ±30%		
Power Consumption	Max 4.7W (12V DC, IR on)		
Environment			
Operating Temperature	-40°C to $+60^\circ\text{C}$ (– 40°F to $+140^\circ\text{F}$); < 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	166.6 mm × 69.7 mm × 70.0 mm (6.56" × 2.75" × 2.75")		
Net Weight	0.35 kg (0.77 lb)		
Gross Weight	0.45 kg (0.99 lb)		

Video

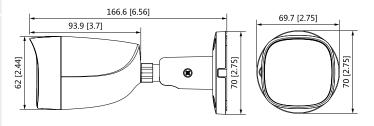
Frame Rate	CVI: PAL: 5M@25 fps; 4M@25 fps; 1080P@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080P@30 fps AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080P (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto switch by ICR
BLC	BLC/HLC/WDR/HLC-Pro
WDR	120 dB

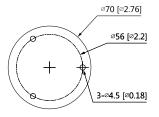
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Ordering Information

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Туре	Part Number	Description				
5MP Camera	DH-HAC-HFW2501CMP-A 2.8 mm					
	DH-HAC-HFW2501CMN-A 2.8 mm	5MP Starlight HDCVI IR Bullet Camera				
	DH-HAC-HFW2501CMP-A 3.6 mm	Sivir Stanight HDEVI in Bullet Camera				
	DH-HAC-HFW2501CMN-A 3.6 mm					
Accessories	PFA130-E	IP66 Junction Box				
	PFA134	Junction box				
	PFA152-E	Pole Mount Bracket				
	PFM800-4K	Passive HDCVI Balun				
	PFM321D	12V 1A Power Adapter				
	PFM904	Integrated Mount Tester				

Dimensions (mm[inch])





Accessories

Optional:



PFA130-E IP66 Junction Box

PFM800-4K

Passive HDCVI Balun



PFA152-E Pole Mount Bracket



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PFM904 Integrated Mount Tester

Celling Mount	Junction Mount	Pole Mount(Vertical)
DI		Obay

PFM321D

12V 1A Power Adapter

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