

DH-HAC-HFW2501S

5MP Starlight HDCVI IR Bullet Camera

HDCVI



- · Starlight, 120dB true WDR, 3DNR
- · Max. 20fps@5MP
- · HD/SD output switchable
- · Audio in interface
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Max. IR length 30m, Smart IR
- · IP67, DC12V±30%















System Overview

Experience 5 megapixel video with the simplicity of reusing existing coaxial infrastructure. The 5MP starlight HDCVI camera presents a high quality image with rich details even under extreme low-light conditions. The camera also features broadcast-quality audio to provide enhanced supplementary evidence collection. It offers various motorized/fixed lens models with 120dB true WDR and HD/SD switchable output. The higher resolution and starlight feature makes the 5MP HDCVI camera an ideal choice for mid to large-size businesses and projects where both highly reliable surveillance and construction flexibility are needed.

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 HCVR, 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 700m transmission for 5MP HD video via coaxial cable, and up to 300m 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 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.

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.

Multi-formats

The camera supports multiple video formats including HDCVI, CVBS, and other two common HD analog formats in the market. A DIP switch located on the cable allows you to quickly toggle formats, further simplifying installation and debugging. This feature makes the camera compatible with not only XVRs, but also most existing HD/SD DVRs.

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 a scene 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.

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.

Pro Series | DH-HAC-HFW2501S

Resolution

Frame Rate

5MP (2592×1944)

20fps@5MP, 25/30fps@4MP, 25/30fps@1080P

Technical Specification	n		Video Output	1-channel BNC high definition video output / video output (DIP switch)	
Camera			Day/Night	Auto (ICR) / Manual	
Image Sensor	1/2.8" CMOS		OSD Menu	Multi-language	
Effective Pixels	2592(H)×1944(V), 5MP		BLC Mode	BLC / HLC / WDR	
Scanning System	Progressive		WDR	120dB	
Electronic Shutter Speed	PAL: 1/4s~1/100000s NTSC: 1/3s~1/100000s		Gain Control	AGC	
Minimum Illumination	0.005Lux/F1.6, 30IRE, 0	DLux IR on			
S/N Ratio	More than 65dB		Noise Reduction	2D/3D	
IR Distance	Up to 30m (98feet)		White Balance	Auto / Manual	
IR On/Off Control	Auto / Manual		Smart IR	Auto / Manual	
IR LEDs	18		Certifications	Certifications	
Lens			Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4	
Lens Type	Fixed lens / Fixed iris		UL (UL60950-1+CAN/CSA C22.2 No.60		
Mount Type	Board-in		Interface		
Focal Length	3.6mm (2.8mm, 6mm (Optional)	Audio Interface	1ch in	
Max Aperture	F1.6		Eelectrical		
Angle of View	H: 79° (98°/49.5°)		Power Supply	12V DC ±30%	
Focus Control	N/A		Power Consumption	Max. 6.4W (12V DC, IR on)	
Close Focus Distance	1300mm (800mm, 300	Omm)	Environmental	Environmental	
51.2" (31.5", 118")		Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 909 * Start up should be done at above-40°C (-40°		
DORI Distance			Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 909	
*Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the		e is calculated based on 76-4 which defines the	Ingress Protection & Vandal Resistance	IP67	
criteria for Detect, Observe, Rec	cognize and Identify respective	vely.	Construction		
	DORI Definition	Distance	Casing	Aluminium	
	Je.iiiitioi.	2.0	Dimensions	164.7mm×70mm×71.6mm (6.48"×2.76"×2.82	
Detect	25px/m (8px/ft)	2.8mm:56m(184ft) 3.6mm:72m(236ft) 6mm:120m(394ft)	Net Weight	0.40kg (0.88lb)	
Observe	63px/m (19px/ft)	2.8mm:22m(72ft) 3.6mm:29m(95ft) 6mm:48m(157ft)	Gross Weight	0.49kg (1.08lb)	
Recognize	125px/m (38px/ft)	2.8mm:11m(36ft) 3.6mm: 14m(46ft) 6mm: 24m(79ft)			
Identify	250px/m (76px/ft)	2.8mm:6m(20ft) 3.6mm:7m(23ft) 6mm:12m(39ft)			
Pan / Tilt / Rotation					
Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotation: 0° ~ 360°				
Video					

Pro Series | DH-HAC-HFW2501S

Ordering Information					
Туре	Part Number	Description			
	DH-HAC-HFW2501SP 2.8mm	5MP Starlight HDCVI IR Bullet Camera, PAL			
	DH-HAC-HFW2501SP 3.6mm				
5140.0	DH-HAC-HFW2501SP 6mm				
5MP Camera	DH-HAC-HFW2501SN 2.8mm	5MP Starlight HDCVI IR Bullet Camera, NTSC			
	DH-HAC-HFW2501SN 3.6mm				
	DH-HAC-HFW2501SN 6mm				
	PFA134	Junction box (For use alone or with PFA152-E pole mount)			
	PFA152-E	Pole mount (For use with PFA134 junction box)			
Accessories	PFM800-E	Passive HDCVI Balun			
	PFM321	12V 1A Power Adapter			
	PFM320	12V 2A Power Adapter			
	PFM300	12V 2A Power Adapter			

CCE		

Optional:



PFA134 Junction box



PFM321 12V 1A Power Adapter



PFA152-E Pole mount



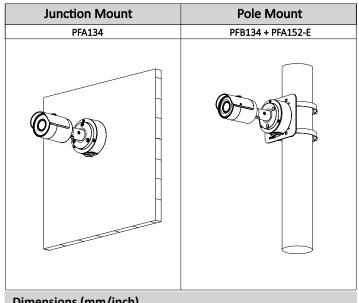
PFM320 12V 2A Power Adapter



PFM800-E Passive HDCVI Balun



PFM300 12V 2A Power Adapter



Dimensions (mm/inch)

