

DH-HAC-HFW2241S 2MP Starlight HDCVI IR Bullet Camera

HDCVI

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- \cdot Starlight, 120dB true WDR, 3DNR
- · Max. 30fps@1080P
- · 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 1080P full HD video and the simplicity of reusing existing coaxial infrastructure with HDCVI. The Starlight HDCVI camera with 120dB true WDR presents a high quality image with rich details even in extreme low-light conditions. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its superior image performance and starlight feature makes the 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 long-distance and real-time transmission without any loss. It supports up to 800m for 1080P Full 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. The four formats can be switched over through OSD menu or by PFM820 (UTC controller). This feature makes the camera to be compatible with not only HCVRs but also most end users' 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.

With working temperature range of -40 $^\circ C$ to +60 $^\circ C$ (-40 $^\circ F$ to +140 $^\circ F), the camera is designed for extreme temperature environments.$

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.

Pro Series | DH-HAC-HFW2241S

Technical Specification

Camera

Image Sensor	1/2.8" CMOS	
Effective Pixels	1920(H)×1080(V), 2MP	
Scanning System	Progressive	
Electronic Shutter Speed	PAL: 1/4s~1/100000s NTSC: 1/3s~1/100000s	
Minimum Illumination	0.004Lux/F1.6, 30IRE, 0Lux IR on	
S/N Ratio	More than 65dB	
IR Distance	Up to 30m (98feet)	
IR On/Off Control	Auto / Manual	
IR LEDs	18	
Lens		
Lens Type	Fixed lens / Fixed iris	
Mount Type	Board-in	
Focal Length	3.6mm (2.8mm, 6mm Optional)	
Max Aperture	F1.6	
Angle of View	H: 86.9° (110°/52.8°)	
Focus Control	N/A	
Close Focus Distance	1200mm (500mm, 2200mm) 47.2" (19.7"/ 86.6")	

DORI Distance

*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 criteria for Detect, Observe, Recognize and Identify respectively.

	DORI Definition	Distance
Detect	25px/m (8px/ft)	2.8mm: 39m(128ft) 3.6mm: 55m(180ft) 6mm:83m(272ft)
Observe	63px/m (19px/ft)	2.8mm: 15m(49ft) 3.6mm:22m(27ft) 6mm:33m(108ft)
Recognize	125px/m (38px/ft)	2.8mm: 8m(26ft) 3.6mm: 11m(36ft) 6mm: 17m(56ft)
Identify	250px/m (76px/ft)	2.8mm: 4m(13ft) 3.6mm: 6m(20ft) 6mm: 8m(26ft)
Dan / Tilt / Datation		

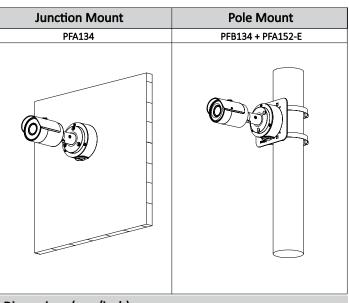
Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotation: 0° ~ 360°
Video	
Resolution	1080P (1920×1080)
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P
Frame Rate	25/30tps@1080P, 25/30/50/60tps@720P

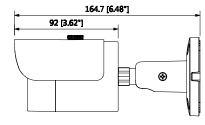
Video Output	1-channel BNC high definition video output / CVBS video output (DIP switch)
Day/Night	Auto (ICR) / Manual
OSD Menu	Multi-language
BLC Mode	BLC / HLC / WDR
WDR	120dB
Gain Control	AGC
Noise Reduction	2D / 3D
White Balance	Auto / Manual
Smart IR	Auto / Manual
Certifications	
Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Interface	
Audio Interface	1
Eelectrical	
Power Supply	12V DC ±30%
Power Consumption	Max. 5.9W (12V DC, IR on)
Environmental	
Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH * Start up should be done at above-40°C (-40°F)
Storage Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 90% RH
Ingress Protection & Vandal Resistance	IP67
Construction	
Casing	Aluminium
Dimensions	164.7mm×70mm×71.6mm (6.48"×2.76"×2.82")
Net Weight	0.40kg (0.88lb)
Gross Weight	0.52kg (1.15lb)

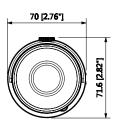
Pro Series | DH-HAC-HFW2241S

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-HAC-HFW2241SP 2.8mm			
	DH-HAC-HFW2241SP 3.6mm	2MP Starlight HDCVI IR Bullet Camera, PAL		
	DH-HAC-HFW2241SP 6mm			
	DH-HAC-HFW2241SN 2.8mm	2MP Starlight HDCVI IR Bullet Camera, NTSC		
	DH-HAC-HFW2241SN 3.6mm			
	DH-HAC-HFW2241SN 6mm			
Accessories	PFA134	Junction box (For use alone or with PFA152-E pole mount)		
	PFA152-E	Pole mount (For use with PFA134 junction box)		
	PFM800-E	Passive HDCVI Balun		
	PFM321	12V 1A Power Adapter		
	PFM320	12V 2A Power Adapter		
	PFM300	12V 2A Power Adapter		



Dimensions (mm/inch)





Accessories

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



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