DH-HAC-HFW2241T-Z-POC

2MP Starlight HDCVI POC IR Bullet Camera

· Starlight, 120dB True WDR, 3DNR
· Max. 30fps@1080P
· HD/SD switchable
· 2.7-13.5mm motorized lens
· Max. IR length 80m, Smart IR
· IP67, DC12V±30%

Pro Series | **1080p FULL HD** | **Starlight** | **WDR** | **80m IR** | **PoC DC 12V** | **IP67**

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. This model is a PoC camera which can be powered by PoC XVR or PoC transmitter over a single coaxial cable with video, requiring no separate power supplies. PoC reduces installation time and costs, making it an ideal choice for applications with complex deployment but a tight budget.

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. PoC power supply supports transmission distance up to 400m for 1080P via coaxial 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.

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.

Multiple-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 compatible with not only XVRs, but also most existing HD/SD DVRs.

* POC function is available only in HDCVI mode.

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.

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~1/100,000s NTSC: 1/3s~1/100,000s
Minimum Illumination	0.004Lux/F1.6, 30IRE, 0Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 80m (262feet)
IR On/Off Control	Auto / Manual
IR LEDs	4

Lens

Lens Type	Motorized lens / Fixed iris
Mount Type	Board-in
Focal Length	2.7-13.5mm
Max Aperture	F1.6
Angle of View	H: 108.7°~28.7°
Focus Control	Auto / Manual
Close Focus Distance	200mm 7.87''

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	
		Wide	Tele
Detect	25px/m (8px/ft)	44m(144ft)	153m(502ft)
Observe	63px/m (19px/ft)	18m(59ft)	61m(200ft)
Recognize	125px/m (38px/ft)	9m(30ft)	31m(102ft)
Identify	250px/m (76px/ft)	4m(13ft)	15m(49ft)

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
Video Output	1-channel BNC high definition video output / CVBS video output
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	N/A

Eelectrical

Power Supply	POC/12V DC ±30%
Power Consumption	Max. 10.2W (12V DC, IR on)
Power Output	12V DC, Max.2W

Environmental

Operating Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH *-30°C ~ +45°C (-22°F ~ +113°F) With 2W power output. * Start up should be done at above-30°C (-22°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Ingress Protection & Vandal Resistance	IP67

Construction

Casing	Aluminium
Dimensions	244.1mm×90.4mm×90.4mm (9.61"×3.56"×3.56")
Net Weight	0.79kg (1.74lb)
Gross Weight	1.04kg (2.29lb)

Ordering Information

Type	Part Number	Description
2MP Camera	DH-HAC-HFW2241TP-Z-POC 2.7~13.5mm	2MP Starlight HDCVI POC IR Bullet Camera, PAL
	DH-HAC-HFW2241TN-Z-POC 2.7~13.5mm	2MP Starlight HDCVI POC IR Bullet Camera, NTSC
Accessories	PFA130-E	Junction box (For use alone or with PFA152-E pole mount)
	PFA152-E	Pole mount (For use with PFA130-E junction box)
	PFA151	Corner mount braket(For use with PFA130-E junction box)
	PFM321	12V 1A Power Adapter
	PFM320	12V 2A Power Adapter
	PFW320D-015	12V 1.5A Power Adapter
	PFM300	12V 2A Power Adapter

Accessories

Optional:

PFA130-E
Junction box

PFA152-E
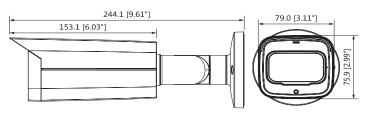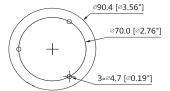Pole mount

PFA151
Corner mount braket

PFM321
12V 1A Power
Adapter

PFM320
12V 2A Power Adapter

PFM320D-015
12V 1.5A Power Adapter

PFM300
12V 2A Power Adapter

Junction Mount	Pole Mount
PFA130-E	PFA130-E + PFA152-E

Corner Mount	
PFA130-E + PFA151	

Dimensions (mm/inch)

244.1 [9.61"]
153.1 [6.03"]
79.0 [3.11"]
75.9 [2.99"]

⌀90.4 [⌀3.56"]
⌀70.0 [⌀2.76"]
3-⌀4.7 [⌀0.19"]