

DH-HAC-HFW2241CM-A

2MP Starlight HDCVI Fixed IR Bullet Camera



* The parameters and datasheets below can only be applied to 2241-S2 series.

- Max 30 fps@1080p
- Starlight, 130 dB true WDR, 3D NR
- 3.6 mm fixed lens (2.8 mm optional)
- CVI/CVBS/AHD/TVI switchable
- Super Adapt
- Built-in mic
- Max. IR length 30 m, Smart IR
- IP67, DC12 V



System Overview

Pro Series is a perfect choice for SMB solutions and projects where both high reliability and flexibility are required. All cameras are equipped with Starlight feature, 130dB true WDR and 3DNR, and are able to provide clear images and rich details even under tough lighting conditions.

Functions

Starlight

With the adoption of large sized high performance sensor and large aperture lens, 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.

Multiple-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 XVRs.

* DIP Switch is available for some models of HDCVI cameras.

Wide Dynamic Range

With advanced Wide Dynamic Range (WDR) technology, Dahua HDCVI camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Super Adapt

Embedded with intelligent algorithm, for changing external environment, camera can automatically adjust parameters to present the optimal image, and it solves the trouble of configuration.

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.

Smart Illumination

The camera is designed with IR 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 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.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict tests on dust and soak. It has dust-proof function, and the enclosure can work normal after soaking in 1 m deep water for 30 minutes.

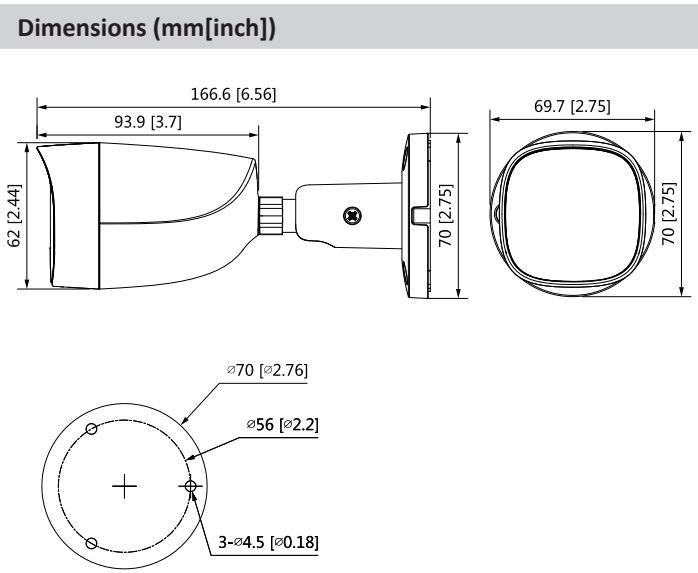
Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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.


Technical Specification						Resolution		1080p (1920 × 1080); 960H (960 × 576 / 960 × 480)	
Camera						Day/Night		Auto switch by ICR	
Image Sensor		2MP CMOS				BLC		BLC/WDR/HLC	
Max. Resolution		1920 (H) × 1080 (V)				WDR		130 dB	
Pixel		2MP				White Balance		Auto; manual	
Scanning System		Progressive				Gain Control		Auto; manual	
Electronic Shutter Speed		PAL: 1/25 s–1/100,000 s NTSC: 1/30 s–1/100,000 s				Noise Reduction		3D NR	
S/N Ratio		> 65 dB				Smart IR		Yes	
Min. Illumination		0.001 Lux/F1.6, 30 IRE, 0 Lux IR on				Mirror		Off/On	
Illumination Distance		30 m (98.4 ft)				Privacy Masking		Off/On (8 areas, rectangle)	
Illuminator On/Off Control		Auto; manual				Certifications			
Illuminator Number		2 (IR light)				Certifications			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				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)			
Lens						Port			
Lens Type		Fixed lens				Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)	
Mount Type		M12				Audio Input		One channel built-in mic	
Power						Power			
Power Supply		12 V ±30% DC				Power Supply			
Power Consumption		Max 3W (12V DC, IR on)				Power Consumption			
Environment						Environment			
Operating Temperature		–40 °C to +60 °C (–40 °F to 140 °F); < 95% (non-condensation)				Operating Temperature			
Storage Temperature		–40 °C to +60 °C (–40 °F to 140 °F); < 95% (non-condensation)				Storage Temperature			
Protection Grade		IP67				Protection Grade			
Structure						Structure			
Casing		Metal throughout the whole casing				Casing			
Camera Dimensions		161.3mm × 69.7mm × 70.0mm(6.35" × 2.75" × 2.75")				Camera Dimensions			
Net Weight		0.33 Kg (0.73 lb)				Net Weight			
Gross Weight		0.43 Kg (0.95 lb)				Gross Weight			
Video						Video			
Frame Rate		CVI: PAL:1080p@25 fps; NTSC:1080p@30 fps; AHD: PAL:1080p@25 fps; NTSC:1080p@30 fps; TVI: PAL:1080p@25 fps; NTSC:1080p@30 fps; CVBS: PAL:960 × 576H; NTSC:960 × 480H				Frame Rate			

Ordering Information		
Type	Model	Description
2M Camera	DH-HAC-HFW2241CMP-A	2MP Starlight HDCVI Fixed IR Bullet Camera, PAL
	DH-HAC-HFW2241CMN-A	2MP Starlight HDCVI Fixed IR Bullet Camera, NTSC
Accessories (Optional)	PFA137	Junction box
	PFA130-E	Water-proof Junction Box
	PFB205W	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFM800-E	Passive HDCVI Balun
	PFM321D	12 V 1A Power Adapter
	PFM904	Integrated Mount Tester




Accessories


Optional:




PFA137
Junction Mount




PFA130-E
Water-proof Junction Box




PFB205W
Wall Mount Bracket




PFA152-E
Pole Mount Bracket



PFM800-E
Passive HDCVI Balun



PFM321D
12 V 1A Power Adapter



PFM904
Integrated Mount Tester

Ceiling Mount	Junction Mount	Pole Mount(Vertical)
