

DH-HAC-HFW2241CM-A

2MP Starlight HDCVI Fixed IR Bullet Camera



- * The parameters and datasheets below can only be applied to2241-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
- \cdot Super Adapt
- \cdot 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, 120dB 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 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 come closer to the camera.

Protection (IP67, wide voltage)

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

Wide voltage: The camera allows ±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.

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Technical Specification						BLC	BLC/WDR/HLC
Camera						WDR	130 dB
Image Sensor		2MP CMOS				White Balance	Auto; manual
Max. Resolution		1920 (H) × 1080 (V)				Gain Control	Auto; manual
Pixel		2MP				Noise Reduction	3D NR
Scanning System		Progressive				Smart IR	Yes
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				Mirror	Off/On
S/N Ratio		> 65 dB				Privacy Masking	Off/On (8 area, rectangle)
Min. Illumination		0.001 Lux/F1.6, 30 IRE, 0 Lux IR on				Certifications	
Illumination Distance Illuminator On/Off Control		30 m (98.4 ft) Auto; manual				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)
Illuminator Number		2 (IR light)				Dout	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°				Port Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)
Lens		Rotation: 0°–360°				Audio Input	One channel built-in mic
Lens Type		Fixed lens				Power	
Mount Type		M12				Power Supply	12 V ±30% DC
Focal Length		2.8 mm; 3.6 mm				Power Consumption	Max 3W (12V DC, IR on)
Max. Aperture		F1.6				Environment	
Field of View		2.8 mm: H: 109°; V: 58°; D: 127° 3.6 mm: H: 86°; V: 46°; D: 101°				Operating Temperature	–40 °C to +60 °C (–40 °F to 140 °F); < 95% (non-condensation)
Iris Type		Fixed iris				Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F); < 95% (non-con- densation)
потуре						Protection Grade	IP67
Close Focus Distance		2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.1 m (3.6 ft)				Structure	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Casing	Metal throughout the whole casing
	2.8mm	42.2m	16.9m	8.4m	4.2m	Camera Dimensions	161.3mm × 69.7mm × 70.0mm(6.35" × 2.75" × 2.75")
		(138.5ft) 53.7m	(55.4ft) 21.5m	(27.6ft) 10.7m	(13.8ft) 5.4m	Net Weight	0.33 Kg (0.73 lb)
	3.6mm	(176.2ft)	(70.5ft)	(35.1ft)	(17.7ft)	Gross Weight	0.43 Kg (0.95 lb)

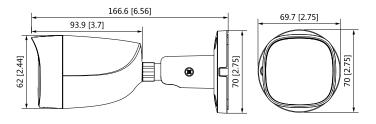
Video

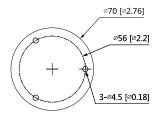
	CVI:	
	PAL:1080p@25 fps;	
	NTSC:1080p@30 fps;	
	AHD:	
	PAL:1080p@25 fps;	
France Data	NTSC:1080p@30 fps;	
Frame Rate	TVI:	
	PAL:1080p@25 fps;	
	NTSC:1080p@30 fps;	
	CVBS:	
	PAL:960 × 576H;	
	NTSC:960 × 480H	
Resolution	1080p (1920 × 1080); 960H (960 × 576 / 960 × 480)	
Day/Night	Auto switch by ICR	

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

Dimensions (mm[inch])





Accessories

Optional:



PFA137

Junction Mount



PFA130-E Water-proof Junction Box





Wall Mount Bracket





PFA152-E Pole Mount Bracket



PFM800-E Passive HDCVI Balun





PFM904 Integrated Mount Tester

