

DH-HAC-HFW2241TU-Z-A

2MP Starlight HDCVI Motorized Vari-focal IR Bullet Camera



Series 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.

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.

* Audio input 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.

- The parameters and datasheets below can only be applied to 2241-S2 series.
- · Max 30 fps@1080P.
- · Starlight, 130dB true WDR, 3D NR.
- · Auto focus, 2.7 mm-13.5mm motorized lens.
- · CVI/CVBS/AHD/TVI switchable.
- · Super Adapt.
- Built-in mic.
- · Max. IR length 60m, Smart IR.
- IP67,DC 12V.













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.

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.

BLC/WDR/HLC

Auto/Area WB

130dB

BLC WDR

White Balance

Technical Specification		Gain Control	Auto; manual
Camera		Noise Reduction	3D NR
mage Sensor	2MP CMOS	Smart IR	Yes
Max. Resolution	1920 (H) × 1080 (V)	Mirror	Yes
Pixel	2MP	Privacy Masking	Off/On (8 area, rectangle)
Scanning System	Progressive	Certifications	
Electronic Shutter Speed	PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s	Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2C UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
S/N Ratio	> 65 dB	Port	(
Min. Illumination	0.001Lux/F1.6, 30IRE, 0Lux IR on		Video output choices of CVI/TVI/AHD/CVBS by or
llumination Distance	80 m (262.5 ft)	Video Output	port(DIP Switch)
lluminator On/Off Control	Auto	Audio Input	One channel built-in mic
Illuminator Number	4 (IR light)	Power	
Pan/Tilt/Rotation Range	Pan: 0°-360° Tilt: 0°-90°	Power Supply	12V ±30% DC
run, my notation nange	Rotation: 0°–360°	Power Consumption	Max 9.4W (12V DC, IR on)
Lens		Environment	
Lens Type	Motorized Vari-focal	Operating Temperature	−30°C~+60°C (-22°F to 140°F); < 95% (non-conde
Auto Focus	Yes	Storage Temperature	−30°C~+60°C (-22°F to 140°F); < 95% (non-conde
Mount Type	ф14	Protection Grade	IP67
Focal Length	2.7 mm-13.5mm	Structure	
Max. Aperture	F1.5	Casing	Metal throughout the whole casing
Field of View	Diagonal: 131°~35° Horizontal: 108°~30° Vertical: 56°~17°	Camera Dimensions	244.1 mm × 90.4 mm × 90.4 mm (9.61" × 3.56" ×
Iris Type	Fixed	Net Weight	0.79 kg (1.7 lb)
Close Focus Distance	0.8 m (2.6 ft)	Gross Weight	1.07 kg (2.4 lb)
DORI Distance	2.7 mm: D: 44.1 m (144.7 ft); O: 17.6 m (57.7 ft); R: 8.8 m (28.9 ft); I: 4.4 m (14.4 ft) 13.5 mm: D: 144.8 m (475.1 ft); O: 57.9 m (190 ft); R: 28.9 m (94.8 ft); I: 14.8 m (48.6 ft)		
Video			
Frame Rate	CVI: PAL:1080P@25fps; NTSC:1080P@30fps; AHD: PAL:1080P@25fps; NTSC:1080P@30fps; TVI: PAL:1080P@25fps; NTSC:1080P@30fps; 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		
2MP Camera	DH-HAC-HFW2241TUP-Z-A	2MP Starlight HDCVI IR Bullet Camera, PAL		
	DH-HAC-HFW2241TUN-Z-A	2MP Starlight HDCVI IR Bullet Camera, NTSC		
Accessories (Optional)	PFA130-E	Water-proof Junction Box		
	PFA152-E	Pole Mount Bracket		
	PFM800-E	Passive HDCVI Balun		
	PFM321D	12V 1A Power Adapter		
	PFM904	Integrated Mount Tester		

Accessories

Optional:



Water-proof Junction Box





PFA152-E Pole Mount Bracket



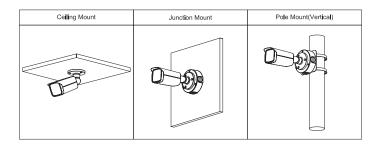
PFM800-E Passive HDCVI Balun



PFM321D DC12V1A Power Adapter



PFM904 Integrated Mount Tester



Dimensions (mm[inch])

