

DH-HAC-HFW2802TU-A

4K Starlight HDCVI Fixed-focal Bullet Camera



System Overview

The Pro Series contains a series of highly reliable and flexible cameras, making it a great choice for SMB solutions and projects. It has Starlight technology, up to 130 dB true WDR and 3DNR, and produces vivid images in rich detail even under difficult lighting conditions.

Functions

Starlight

With its large image sensor and large aperture, the camera delivers high performance and quality, even in low-light conditions. The starlight feature allows the camera to capture highly detailed images in accurate color, recognizing targets even at night or in scenes with limited light.

Wide Dynamic Range

With its advanced Wide Dynamic Range technology (WDR), the camera captures highly detailed images and produces high-definition recordings in high-contrast lighting conditions, and in scenes with backlighting or shadows.

Broadcast-quality Audio

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

* Audio input is available for select HDCVI camera models.

- * The parameters and datasheets below can only be applied to 2802-S2 series.
- Max. 15 fps@4K.
- · Starlight, 120 dB true WDR, 3D NR.
- · Smart IR Illumination.
- \cdot 80 m illumination distance.
- · Super Adapt.
- Built-in MIC.
- \cdot 3.6 mm fixed lens (6 mm optional).
- \cdot CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.



Long Distance Transmission

HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's test laboratory.

Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

Advanced 3DNR

Dahua's advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

Smart IR Illumination

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

Protection (IP67, Wide Voltage)

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes. Wide voltage: The camera has \pm 30% input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

Pro Series | DH-HAC-HFW2802TU-A

recrifical S	pecification				
Camera					
Image Sensor		4K CMOS			
Max. Resolution		3840 (H) × 2160 (V)			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s			
Min. Illumination		0.001 lux@F1.5 (Color, 30 IRE) 0.0001 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		80 m (262.47 ft)			
Illuminator On/Off Control		Auto			
Illuminator Number		4 (IR light)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Auto Focus		No			
Lens Mount		M12			
Focal Length		3.6 mm; 6 mm			
Max. Aperture		F1.5			
Field of View		3.6 mm: H: 87°; V: 49°; D: 99° 6 mm: H: 60°; V: 35°; D: 68°			
Iris Control		Fixed			
Close Focus Distance		3.6 mm: 2.2 m (7.22 f) 6 mm: 4.0 m (13.12 f)			
DORI Distance	Lens	Detect	Observe	Recognize	Identi
	3.6 mm	98.0 m (321.52 ft)	39.2 m (128.61 ft)	19.6 m (64.30 ft)	9.8 n (32.15
	6 mm	140.0 m (459.32 ft)	56.0 m (183.73 ft)	28.0 m (91.86 ft)	14.0 ı (45.93

Illumination Mode	Smart IR			
Defog	Electronic defog			
Digital Zoom	4×			
Mirror	Yes			
Privacy Masking	Off/On (8 areas, rectangle)			
Certification				
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14			
Port				
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)			
Audio Input	One channel built-in MIC			
Power				
Power Supply	12 VDC \pm 30% (It is recommended to use a power adapter to supply the power for one camera)			
Power Consumption	Max 9.6 W (12 VDC, IR on)			
Environment				
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Operating Humidity	<95% (RH), non-condensing			
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Storage Humidity	<95% (RH), non-condensing			
Protection	IP67			
Structure				
Casing Material	Metal			
Product Dimensions	244.1 mm × 90.4 mm × 90.4 mm (9.61" × 3.56" × 3.56")			
Net Weight	0.76 kg (1.68 lb)			
Gross Weight	1.00 kg (2.20 lb)			
Installation	Wall mount; ceiling mount; vertical pole mount			

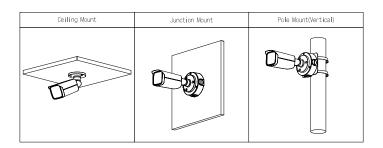
Video

Video Frame Rate	CVI: PAL: 4K@15 fps;5M@25 fps; 4M@25 fps NTSC: 4K@15 fps;5M@25 fps; 4M@30 fps AHD: PAL: 4K@15 fps; NTSC: 4K@15 fps TVI: PAL: 4K@15 fps; NTSC: 4K@15 fps CVBS: PAL: 960H; NTSC: 960H
Resolution	4K (3840 × 2160); 5M (2880 × 1620); 4M (2560 × 1440); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; HLC; WDR; HLC-Pro
WDR	120 dB
White Balance	Auto;Area white balance
Gain Control	Auto/Manual
Noise Reduction	3D NR

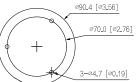
Pro Series | DH-HAC-HFW2802TU-A

Ordering Information

Туре	Model	Description	
2M Camera	DH-HAC- HFW2802TUP-A	4K Starlight HDCVI Fixed-focal Bullet Camera,PAL	
	DH-HAC- HFW2802TUN-A	4K Starlight HDCVI Fixed-focal Bullet Camera,NTSC	
Accessories (Optional)	PFA130-E	Water-proof Junction Box	
	PFA152-E	Pole Mount Bracket	
	PFM800-4K	1-CH Passive Video Balun	
	PFM321D	12V 1A Power Adapter	
	PFM904	Integrated Mount Tester	



Dimensions (mm [inch])



PFM800-4K

1-CH Passive Video

Balun

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFM321D 12V 1A Power Adapter



PFA152-E

(alhua

PFM904 Integrated Mount Tester

Rev 002.000 © 2023 Dahua. All rights reserved. Design and specifications are subject to change without notice. The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.