

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.
- · 80 m illumination distance.
- · Super Adapt.
- · Built-in MIC.
- · 3.6 mm fixed lens (6 mm optional).
- · 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

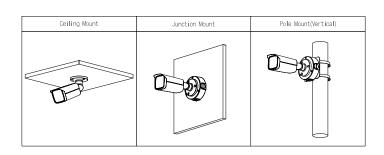
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Technical Specification						White Balance	Auto;Area white balance
Camera						Gain Control	Auto/Manual
Image Sensor		4K CMOS				Noise Reduction	3D NR
Max. Resolution		3840 (H) × 2160 (V)				Illumination Mode	Smart IR
Scanning System		Progressive				Defog	Electronic defog
Electronic Shutter Speed		PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s				Digital Zoom	4×
Min. Illuminat	tion	0.001 lux@F1.5 (Color, 30 IRE) 0.0001 lux@F1.5 (B/W, 30 IRE)				Mirror Privacy Masking	Yes Off/On (8 areas, rectangle)
C/N Davis		0 lux (Illuminator on)				Certification	, , , , ,
S/N Ratio		>65 dB				CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B;	
Illumination Distance		80 m (262.47 ft)					FCC: 47 CFR FCC Part 15, Subpart B;
Illuminator On/Off Control		Auto				Dt	UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14
Illuminator Number		4 (IR light) Pan: 0°–360°				Port	Video output choices of CVI/TVI/AHD/CVBS by one BNC
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–				Video Output	port (DIP Switch)
Lens						Audio Input	One channel built-in MIC
Lens Type		Fixed-focal	Fixed-focal			Power	
Auto Focus		No				Power Supply	12 VDC \pm 30% (It is recommended to use a power adapter to supply the power for one camera)
Lens Mount		M12				Power Consumption	Max 9.6 W (12 VDC, IR on)
Focal Length		3.6 mm; 6 m	m			Environment	
Max. Aperture		F1.5				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Field of View		3.6 mm: H: 87°; V: 49°; D: 99°				Operating Humidity	<95% (RH), non-condensing
i iela UI View		6 mm: H: 60°; V: 35°; D: 68°				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Iris Control		Fixed				Storage Humidity	<95% (RH), non-condensing
Close Focus Distance		3.6 mm: 2.2 m (7.22 f) 6 mm: 4.0 m (13.12 f)				Protection	IP67
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Structure	
	3.6 mm	98.0 m	39.2 m	19.6 m	9.8 m	Casing Material	Metal
		(321.52 ft) 140.0 m	(128.61 ft) 56.0 m	(64.30 ft) 28.0 m	(32.15 ft) 14.0 m	Product Dimensions	244.1 mm × 90.4 mm × 90.4 mm (9.61" × 3.56" × 3.56"
	6 mm	(459.32 ft)	(183.73 ft)	(91.86 ft)	(45.93 ft)	Net Weight	0.76 kg (1.68 lb)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design					Gross Weight	1.00 kg (2.20 lb)
						Installation	Wall mount; ceiling mount; vertical pole mount
	tool.	to motaliation	aa commissio	manual/ þ	ojeće design		
v /: 1							

Video

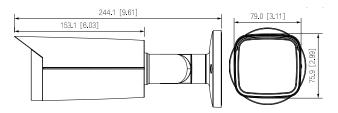
Video Frame Rate	CVI: PAL: 4K@15 fps;5M@25 fps; 4M@25 fps NTSC: 4K@15 fps;5M@25 fps; 4M@30 fps AHD: PAL: 4K@15 fps; NTSC: 4K@15 fps TVI: PAL: 4K@15 fps; NTSC: 4K@15 fps CVBS: PAL: 960H; NTSC: 960H	
Resolution	4K (3840 × 2160); 5M (2880 × 1620); 4M (2560 × 1440); 960H (960 × 576/960 × 480)	
Day/Night	Auto(ICR)/Color/B/W	
BLC	BLC; HLC; WDR; HLC-Pro	
WDR	120 dB	

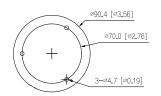
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Ordering Information						
Туре	Model	Description				
20.4 Company	DH-HAC- HFW2802TUP-A	4K Starlight HDCVI Fixed-focal Bullet Camera,PAL				
2M Camera	DH-HAC- HFW2802TUN-A	4K Starlight HDCVI Fixed-focal Bullet Camera,NTSC				
	PFA130-E	Water-proof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



Dimensions (mm [inch])





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