

DH-HAC-HDW2802T-A

4K Starlight HDCVI Fixed-focal Eyeball 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.
- · 60 m illumination distance.
- · Super Adapt.
- · Built-in MIC.
- · 3.6 mm fixed lens (2.8 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.

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Technical Specification						Illumination Mode	Smart IR
Camera						Defog	Electronic defog
Image Sensor		4K CMOS				Digital Zoom	4×
Max. Resoluti	ion	3840 (H) × 2160 (V)				Mirror	Yes
Scanning System		Progressive				Privacy Masking	Off/On (8 areas, rectangle)
Electronic Shutter Speed		PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s				Certification	
Min. Illumination		0.001 lux@F1.5 (Color, 30 IRE) 0.0001 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)				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
S/N Ratio		>65 dB				Port	
Illumination D	Distance	60 m (196.85 ft)				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)
Illuminator O	n/Off Control	Auto				Audio Input	One channel built-in MIC
Illuminator Number		2 (IR light)				Power	
Pan/Tilt/Rotation Range		Pan: 0°-360° Tilt: 0°-78° Rotation: 0°-				Power Supply	12 VDC ± 30% (It is recommended to use a power adapter to supply the power for one camera)
Lens						Power Consumption	Max 6.4 W (12 VDC, IR on)
Lens Type		Fixed-focal				Environment	
Auto Focus		No				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Lens Mount		2.8 mm: M16				Operating Humidity	<95% (RH), non-condensing
Focal Length		3.6 mm: M12 2.8 mm;3.6 mm				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Max. Aperture		F1.5				Storage Humidity	<95% (RH), non-condensing
·		2.8mm: H: 111°; V: 59°; D: 131°				Protection	IP67
Field of View		3.6mm: H: 87°; V: 49°; D: 99°				Structure	
Iris Control		Fixed				Casing Material	Metal
Close Focus Distance		2.8 mm: 1.8 m (5.91 ft) 3.6 mm: 2.2 m (7.22 ft)				Product Dimensions	Φ106.0 mm × 93.6 mm (Φ4.17" × 3.69")
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Net Weight	0.48 kg (1.06 lb)
	2.8 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)	Gross Weight	0.66 kg (1.46 lb)
	3.6 mm	98.0 m (321.52 ft)	39.2 m (128.61 ft)	19.6 m (64.30 ft)	9.8 m (32.15 ft)	Installation	Wall mount; ceiling mount; vertical pole mount
Video		(321.3210)	(123.0110)	(550 10)	(52.15 11)		

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

4K (3840 × 2160); 5M (2880 × 1620); 4M (2560 × 1440);

TVI: PAL: 4K@15 fps; NTSC: 4K@15 fps CVBS: PAL: 960H; NTSC: 960H

960H (960 × 576/960 × 480)

Auto(ICR)/Color/B/W

120 dB

3D NR

Auto/Manual

BLC; HLC; WDR; HLC-Pro

Auto;Area white balance

Video Frame Rate

Resolution

Day/Night

White Balance

Gain Control

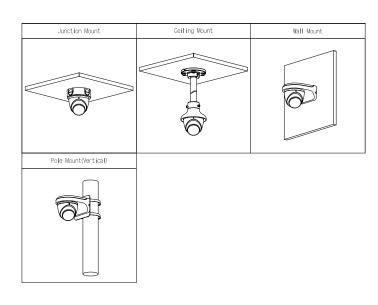
Noise Reduction

BLC

WDR

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Ordering Information							
Туре	Model	Description					
2M Camera	DH-HAC-HDW2802TP-A	4K Starlight HDCVI Fixed-focal Eyeball Camera,PAL					
ZIVI Camera	DH-HAC-HDW2802TN-A	4K Starlight HDCVI Fixed-focal Eyeball Camera,NTSC					
	PFA130-E	Water-proof Junction Box					
	PFB204W	Wall Mount Bracket					
	PFA106	Adapter Plate of Mini Dome & Eyeball Camera					
Accessories	PFB220C	Ceiling Mount Bracket					
(Optional)	PFA152-E	Pole Mount Bracket					
	PFM800-4K	1-CH Passive Video Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					



Accessories

Optional:



PFA130-E Water-proof Junction Box



PFB204W Wall Mount Bracket



PFA106 Adapter Plate of Mini Dome & Eyeball Camera



PFB220C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFM800-4K 1-CH Passive Video Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester

Dimensions (mm [inch])

