

DH-HAC-HDW1801T-Z-A

4K Starlight HDCVI Motorized Vari-focal IR Eyeball Camera



- * The parameters and datasheets below can only be applied to1801-S2 series.
- Max. 15 fps@4K.
- 120 dB true WDR, 3D NR.
- Smart IR Illumination.
- 60 m illumination distance.
- Super Adapt.
- Built-in MIC.
- Auto focus, 2.7 mm-13.5 mm motorized lens.
- · CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.



The Lite Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-color and starlight, providing various solutions for different scenarios.

Functions

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.

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.

Super Adapt

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



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.

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 ±30% input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

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.

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Technical Specification

Camera

Camera					
Pixel		8 MP			
Image Sensor		4K CMOS			
Max. Resolution		3840 (H) × 2160 (V)			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s			
Min. Illumination		0.01 lux@F1.5 (Color, 30 IRE) 0.001 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		60 m (196.85 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		2 (IR light)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Motorized Vari-focal			
Auto Focus		Yes			
Lens Mount		ф14			
Focal Length		2.7 mm–13.5 mm			
Max. Aperture		F1.5			
Field of View		Horizontal: 114°–32° Vertical: 58°–17° Diagonal: 138°–36°			
Iris Control		Fixed			
Close Focus Distance		0.8m			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	85.3 m (279.86 ft)	34.1 m (111.88 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)
	Т	280.0 m (918.64 ft)	112.0 m (367.45 ft)	56.0 m (183.73 ft)	28.0 m (91.87 ft)

BLC	BLC; HLC; WDR; HLC-Pro		
WDR	120 dB		
White Balance	Auto;Area white balance		
Gain Control	Auto/Manual		
Noise Reduction	3D NR		
Motion Detection	Yes		
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		
Audio Input	One channel built-in MIC (-A)		
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 7.9W (12 VDC, IR on)		
Environment			
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)		
Operating Humidity	<95% (RH), non-condensing		
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)		
Protection	IP67		
Structure			
Casing Material	Metal		
Product Dimensions	Φ122.0 mm × 104.8 mm (Φ4.80" × 4.13")		
Net Weight	0.57 kg (1.26 lb)		
Gross Weight	0.74 kg (1.63 lb)		

Wall mount; ceiling mount; vertical pole mount

Video

Video Frame Rate	CVI: PAL: 4K@15 fps; 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 4K@15 fps; 5M@25 fps; 4M@30 fps; 1080p@30 fps TVI: PAL: 4K@15 fps NTSC: 4K@15 fps AHD: PAL: 4K@15 fps NTSC: 4K@15 fps CVBS: PAL: 960H NTSC: 960H
Resolution	4K (3840 x 2160); 5M (2880 x 1620); 4M (2560 x 1440); 1080P (1920 x 1080); 960H (960 x 576/960 x 480)
Day/Night Auto(ICR)/Color/B/W	

Installation

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Ordering Information

Туре	Part Number	Description	
4K Camera	DH-HAC-HDW1801TP- Z-A	4K HDCVI IR Eyeball Camera, PAL	
4K Camera	DH-HAC-HDW1801TN- Z-A	4K HDCVI IR Eyeball Camera, NTSC	
	PFA130-E	Water-proof Junction Box	
	PFB203W	Wall Mount Bracket	
	PFA152-E	Pole Mount Bracket	
Accessories	PFA106	Adapter Plate of Mini Dome & Eyeball Camera	
(Optional)	PFB220C	Ceiling Mount Bracket of Mini Dome & Eyeball Camera	
	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



PFA106 Adapter Plate of Mini Dome & Eyeball Camera



PFM321D 12V 1A Power Adapter



PFB203W Wall Mount Bracket



PFA152-E

Pole Mount

Bracket

PFB220C Ceiling Mount Bracket of Mini Dome & Eyeball Camera



PFM904 Integrated Mount Tester

PFM800-4K 1-CH Passive Video Balun



