

DH-HAC-HDW1801T-Z-A-DP

4K Starlight HDCVI Motorized Vari-focal IR Eyeball Camera



System Overview

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.

- * The parameters and datasheets below can only be applied to 1801-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, 24 VAC/12 VDC.













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.

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.

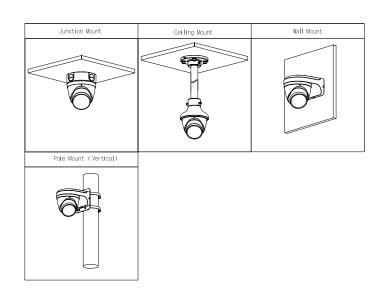
Broadcast-quality Audio

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.

^{*} Audio input is available for select HDCVI camera models.

Technical	Specification	on					BLC	BLC; HLC; WDR; HLC-Pro
Camera							WDR	120 dB
Pixel		8 MP					White Balance	Auto;Area white balance
Image Sensor		4K CMOS					Gain Control	Auto/Manual
Max. Resolution		3840 (H) × 2160 (V)					Noise Reduction	3D NR
Scanning System		Progressive					Motion Detection	Yes
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s					Illumination Mode	Smart IR
Min. Illumination		0.01 lux@F1.5 (Color, 30 IRE) 0.001 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)					Defog	Electronic defog
							Digital Zoom	4x
S/N Ratio		>65 dB					Mirror	Yes
Illumination Distance		60 m (196.85 ft)					Privacy Masking	Off/On (8 areas, rectangle)
Illuminator C	Illuminator On/Off Control		Auto/Manual				Certification	
Illuminator Number		2 (IR light)						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
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°					Certifications	
Lens		Rotation: 0°–360°					Port	
Lens Type		Motorized Vari-focal					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Auto Focus		Yes					Audio Input	One channel built-in MIC (-A)
Lens Mount		ф14					Power	
Focal Length		2.7 mm-13.5 mm					Power Supply	12 VDC ± 10%; 24 VAC ± 25%
Max. Aperture		F1.5					Power Consumption	Max 9.5W (12 VDC, IR on)
		Horizontal: 114°–32°					Environment	
Field of View		Vertical: 58°–17° Diagonal: 138°–36°					Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Iris Control		Fixed					Operating Humidity	<95% (RH), non-condensing
Close Focus Distance		0.8m					Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
	Lens	Detect	Observe	Recognize	Identify		Protection	IP67
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)		Structure	
	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)		Casing Material	Metal
Video							Product Dimensions	Ф122.0 mm × 104.8 mm (Ф4.80" × 4.13")
		CVI:					Net Weight	0.61 kg (1.34 lb)
Video Frame Rate		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					Gross Weight	0.76 kg (1.68 lb)
							Installation	Wall mount; ceiling mount; vertical pole mount
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						

Ordering Information							
Туре	Part Number	Description					
4K Camera	DH-HAC-HDW1801TP- Z-A-DP	4K HDCVI IR Eyeball Camera, PAL					
4K Calliela	DH-HAC-HDW1801TN- Z-A-DP	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					



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



Pole Mount

Bracket

PFM800-4K

1-CH Passive

Video Balun

PFB220C Ceiling Mount Bracket of Mini Dome & Eyeball Camera



PFM904 Integrated Mount Tester

Dimensions (mm[inch])

