

DH-HAC-HDBW1801EA(-A)

4K HDCVI Fixed IR Dome 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.

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.

- * 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.
- · 40 m illumination distance.
- · Built-in MIC (-A).
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- IP67, IK10, 12 VDC.













Protection (IP67, IK10, 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. IK10: The enclosure can withstand up to 5 punches from a 5 kg hammer falling from a height of 40 cm (impact energy is 20 J).

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.

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

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.

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White Balance

Auto; Area white balance

Technical Specification					
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@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		40 m (131.23 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		3 (IR light)			
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75°			
Lens		Rotation: 0°–355°			
Lens Type		Fixed-focal			
Lens Type Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture		F2.0			
		2.8 mm: H: 106°; V: 56°; D: 125°			
Field of View		3.6 mm: H: 88°; V: 46°; D: 105°			
Iris Control		2.9 mm; 1.2 m (4.27 ft)			
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 1.9 m (6.23 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	88 m (288.71 ft)	35.2 m (115.49 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)
	3.6 mm	106.7 m (350.07 ft)	42.7 m (140.09 ft)	21.3 m (69.88 ft)	10.7 m (35.10 ft)
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			
BLC		BLC; HLC; WDR; HLC-Pro			
WDR		120 dB			

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Ordering Information								
Туре	Part Number	Description						
4K Camera	DH-HAC- HDBW1801EAP(-A)	4K HDCVI Fixed IR Dome Camera, PAL						
4K Calliela	DH-HAC- HDBW1801EAN(-A)	4K HDCVI Fixed IR Dome Camera, NTSC						
	PFA136	Junction Box						
	PFB203W	Wall Mount Bracket						
	PFA152-E	Pole Mount Bracket						
Accessories	PFA106	Mount Adapter						
(Optional)	PFB220C	Ceiling Mount Bracket						
	PFM800-4K	Passive HDCVI Balun						
	PFM321D	12V 1A Power Adapter						
	PFM904	Integrated Mount Tester						

Ceiling Mount Junction Mount Ceiling Mount Pole Mount(Horizontal) Pole Mount(Vertical) Wall Mount

Accessories

Optional:



PFA136 Junction Вох



PFA106





PFB203W Wall Mount Bracket



PFB220C Ceiling Mount Bracket

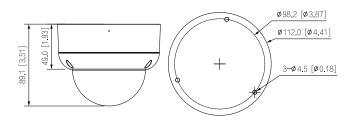


PFA152-E Pole Mount Bracket



PFM800-4K Passive HDCVI Balun

Dimensions (mm[inch])





Adapter



PFM904 Integrated Mount Tester