

DH-HAC-HDBW1200RA-Z-A

2MP IR HDCVI Motorized Vari-Focal Vandal-proof Dome Camera



* The parameters and datasheets below can only be applied to 1200-S6 series.

- Max. 30 fps@1080p.
- Smart IR Illumination.
- 60 m illumination distance.
- Super Adapt.
- Built-in Mic.
- 2.7 mm–12 mm motorized lens.
- CVI/CVBS/AHD/TVI switchable.
- IP67, IK10, 12 VDC.



Series 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

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.

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.

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.

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.

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.

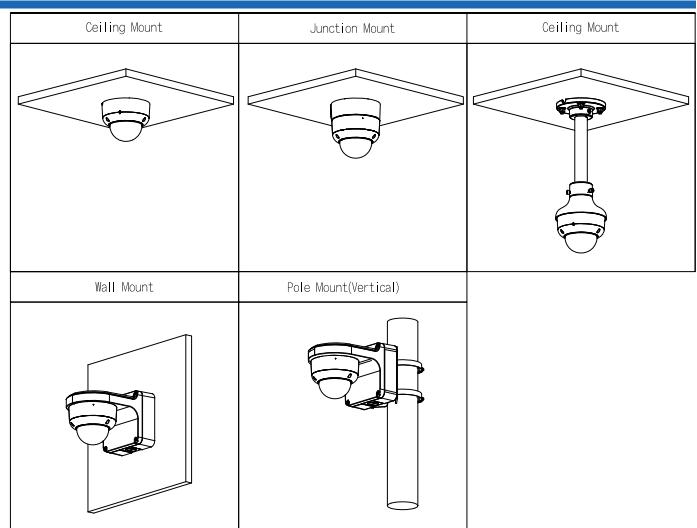
* Audio input is available for select HDCVI camera models.

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.

Technical Specification						Gain Control	
Camera						Noise Reduction	3D NR
Image Sensor	2 MP CMOS					Illumination Mode	Smart IR
Max. Resolution	1920 (H) × 1080 (V)					Mirror	Yes
Scanning System	Progressive					Privacy Masking	Off/On (8 areas, rectangle)
Electronic Shutter Speed	PAL: 1/25 s–1/100000 s NTSC: 1/30 s–1/100000 s					Certification	
Min. Illumination	0.01 lux@F1.6 (Color, 30 IRE) 0.001 lux@F1.6 (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 Distance	60 m (196.85 ft)					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illuminator On/Off Control	Auto					Audio Input	One channel built-in Mic
Illuminator Number	3 (IR light)				Power		
Angle Adjustment	Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°					Power Supply	12 VDC ± 30%
Lens						Power Consumption	Max 4.1 W (12 VDC, IR on)
Lens Type	Motorized Vari-focal					Environment	
Auto Focus	No					Operating Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Lens Mount	φ14					Operating Humidity	<95% (RH), non-condensing
Focal Length	2.7 mm–12 mm					Storage Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Max. Aperture	F1.6					Storage Humidity	<95% (RH), non-condensing
Field of View	H: 28.3°–98.2°; V: 15.8°–51.9°; D: 32.1°–116.7°					Protection	IK10; IP67
Iris Control	Fixed					Anti-corrosion Level	Basic Protection
Close Focus Distance	0.8 m (2.62 ft)				Structure		
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Casing Material	Metal
	2.7 mm	47.4 m (155.51 ft)	18.9 m (62.01 ft)	9.5 m (31.17 ft)	4.7 m (15.42 ft)	Product Dimensions	φ126 mm × 100 mm (φ4.96" × 3.94")
	12 mm	155.6 m (510.50 ft)	62.2 m (204.07 ft)	31.1 m (102.03 ft)	15.6 m (51.18 ft)	Net Weight	0.63 kg (1.38 lb)
						Gross Weight	0.81 kg (1.78 lb)
						Installation	Wall mount; ceiling mount; vertical pole mount
Video							
Video Frame Rate	CVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; CVBS: PAL: 960H; NTSC: 960H						
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)						
Day/Night	Auto(ICR)/Color/B/W						
BLC	BLC; HLC; DWDR						
WDR	DWDR						
White Balance	Auto; Area white balance						

Ordering Information		
Type	Model	Description
2MP Camera	DH-HAC-HDBW1200RAP-Z-A	2MP IR HDCVI Motorized Vari-Focal Vandal-proof Dome Camera, PAL
	DH-HAC-HDBW1200RAN-Z-A	2MP IR HDCVI Motorized Vari-Focal Vandal-proof Dome Camera, NTSC
Accessories (Optional)	PFA197R	Junction Box
	PFB206W	Wall Mount Bracket
	PFA109	Mount Adapter
	PFB220C	Ceiling Mount Bracket
	PFA156	Pole Mount Bracket
	PFM800-E	Passive HDCVI Balun
	PFM321	12V 1A Power Adapter
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])

Accessories

Optional:



PFA197R
Junction Box



PFB206W
Wall Mount Bracket



PFA109
Mount Adapter



PFB220C
Ceiling Mount Bracket



PFA156
Pole Mount Bracket



PFM800-E
Passive HDCVI Balun



PFM321
12V 1A Power Adapter



PFM904
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