

DH-HAC-HDBW1200RA-Z

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.
- · 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.

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.

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Technical Specification					
Camera		21/0.01/05			
Image Sensor		2 MP CMOS			
Max. Resolut		1920 (H) × 1080 (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@F1.6 (Color, 30 IRE) 0.001 lux@F1.6 (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			
Illuminator Number		3 (IR light)			
Angle Adjustment		Pan: 0°-355° Tilt: 0°-80° Rotation: 0°-355°			
Lens					
Lens Type		Motorized Vari-focal			
Auto Focus		No			
Lens Mount		ф14			
Focal Length		2.7 mm-12 mm			
Max. Apertu	re	F1.6			
Field of View		H: 28.3°–98.2°; V: 15.8°–51.9°; D: 32.1°–116.7°			
Iris Control		Fixed			
Close Focus I	Distance	0.8 m (2.62 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	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)
	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)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.				
Video					

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		
	Gain Control	Auto		
	Noise Reduction	3D NR		
	Illumination Mode	Smart IR		
	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		
	Power			
	Power Supply	12 VDC ± 30%		
	Power Consumption	Max 4.1 W (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)		
	Storage Humidity	<95% (RH), non-condensing		
	Protection	IK10; IP67		
	Anti-corrosion Level	Basic Protection		
	Structure			
	Casing Material	Metal		
	Product Dimensions	φ126 mm × 100 mm (φ4.96" × 3.94")		
	Net Weight	0.63 kg (1.38 lb)		
	Gross Weight	0.81 kg (1.78 lb)		

Wall mount; ceiling mount; vertical pole mount

Installation

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

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

Accessories

Optional:



Junction Box



PFB220C Ceiling Mount Bracket



PFB206W Wall Mount Bracket



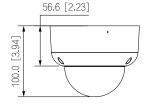
PFA156 Pole Mount Bracket



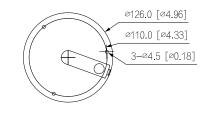
PFA109 Mount Adapter



PFM800-E Passive HDCVI Balun



Dimensions (mm[inch])





12V 1A Power Adapter



PFM904 Integrated Mount Tester