

DH-HAC-HDW1200EM-A

2MP IR HDCVI Fixed-focal Eyeball Camera



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

- Max. 30 fps@1080p.
- Smart IR Illumination.
- 50 m illumination distance.
- Super Adapt.
- Built-in Mic.
- 3.6 mm fixed lens (2.8 mm optional).
- CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.

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

Super Adapt

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

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.

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.

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.

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.

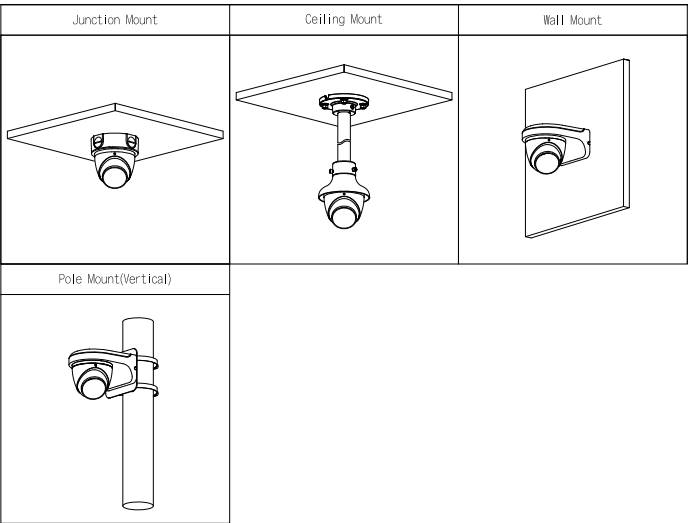
Long Distance Transmission

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					
Camera					
Image Sensor		2 MP CMOS			
Max. Resolution		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@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		50 m (164.04 ft)			
Illuminator On/Off Control		Auto			
Illuminator Number		1 (IR light)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture		F2.0			
Field of View		2.8 mm: H: 99°; V: 55°; D: 114° 3.6 mm: H: 83°; V: 48°; D: 105°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.6m (1.97 ft) 3.6 mm: 0.7 m (2.30 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	45.1 m (147.97 ft)	18.1 m (59.38 ft)	9.0 m (29.53 ft)	4.5 m (14.76 ft)
	3.6 mm	50.9 m (166.99 ft)	20.3 m (66.60 ft)	10.2 m (33.46 ft)	5.1 m (16.73 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 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 16, Subpart B
Port		
Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Audio Input		One channel built-in Mic
Power		
Power Supply		12 VDC ± 30%
Power Consumption		Max 3.2 W (12 VDC, IR on)
Environment		
Operating Temperature		–40 °C to +60 °C (–40 °F to +140 °F)
Operating Humidity		<95% (RH), non-condensing
Storage Temperature		–40 °C to +60 °C (–40 °F to +140 °F)
Storage Humidity		<95% (RH), non-condensing
Protection		IP67
Structure		
Casing Material		Metal
Product Dimensions		Φ106.0 mm × 93.6 mm (Φ4.17" × 3.69")
Net Weight		0.44 kg (0.97 lb)
Gross Weight		0.60 kg (1.32 lb)
Installation		Wall mount; ceiling mount; vertical pole mount

Ordering Information		
Type	Model	Description
2MP Camera	DH-HAC-HDW1200EMP-A	2MP IR HDCVI Fixed-focal Eyeball Camera, PAL
	DH-HAC-HDW1200EMN-A	2MP IR HDCVI Fixed-focal Eyeball Camera, NTSC
Accessories (Optional)	PFA139	Junction Box
	PFA106	Mount Adapter
	PFB220C	Ceiling Mount Bracket
	PFB204W	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFM800-E	1 Channel Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester



Dimensions (mm [inch])

Accessories

Optional:



PFA139
Junction
Box



PFA106
Mount Adapter



PFB220C
Ceiling Mount
Bracket



PFB204W
Wall Mount
Bracket



PFA152-E
Pole Mount
Bracket



PFM800-E
1 Channel Passive
HDCVI Balun



PFM321D
12V 1A Power
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