

DH-HAC-HDW1200T-IL-A

2MP Smart Dual Light HDCVI Fixed-focal 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

Smart Dual Light

With its smart dual light mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in the rule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR light to significantly reduce light pollution.

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.

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

* In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.

- Max. 30 fps@1080p.
- 3D NR.
- Smart Dual Light.
- 40 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.



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.

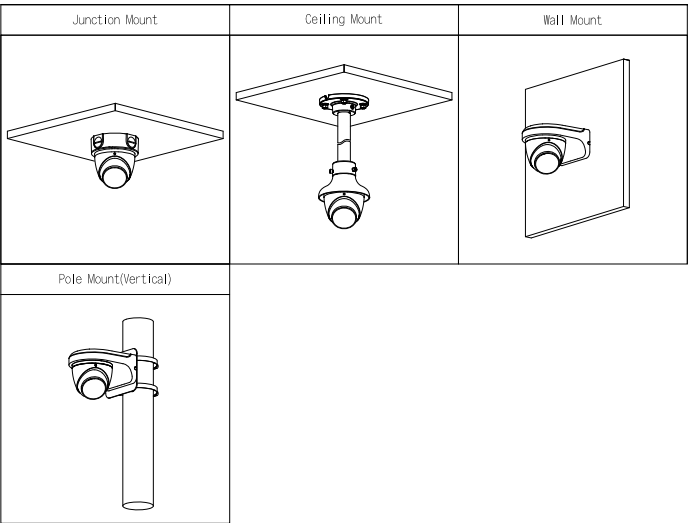
Long Distance Transmission

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.

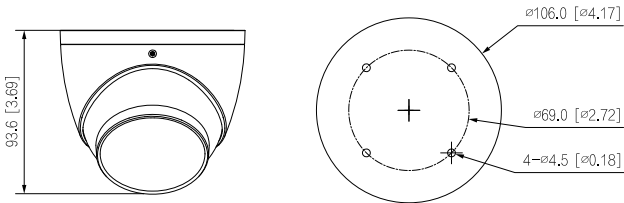
Technical Specification						
Camera						
Image Sensor		2 MP CMOS				
Max. Resolution		1920 (H) × 1080 (V)				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25 s–1/100000 s NTSC: 1/30 s–1/100000 s				
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>65 dB				
Illumination Distance		IR: 40 m (131.23 ft) Warm light: 40 m (131.23 ft)				
Illuminator On/Off Control		Auto				
Illuminator Number		2 (Warm light); 2 (IR light)				
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Auto Focus		No				
Lens Mount		M12				
Focal Length		2.8 mm; 3.6 mm				
Max. Aperture		F2.0				
Field of View		2.8 mm: H: 102°; V: 60°; D: 129° 3.6 mm: H: 83°; V: 48°; D: 105°				
Iris Control		Fixed				
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6mm: 0.7 m (2.30 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	41.1 m (135.83 ft)	16.5 m (42.13 ft)	8.3 m (27.23 ft)	4.1 m (13.45 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&WL; WL Mode; IR Mode	
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	
Audio Input		1 channel	
Power			
Power Supply		12 VDC ± 30%	
Power Consumption		Max 4.1W (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 × 99.2 mm (φ4.17" × 3.91")	
Net Weight		0.45 kg (0.99lb)	
Gross Weight		0.58kg (1.28 lb)	
Installation		Wall mount; ceiling mount; vertical pole mount	

Ordering Information		
Type	Model	Description
2MP Camera	DH-HAC-HDW1200TP-IL-A	2MP HDCVI Smart Dual Light Eyeball Camera, PAL
	DH-HAC-HDW1200TN-IL-A	2MP HDCVI Smart Dual Light Eyeball Camera, NTSC
Accessories (Optional)	PFA130-E	Water-proof Junction Box
	PFA106	Mount Adapter
	PFB220C	Ceiling Mount Bracket
	PFB204W	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFM800-E	Passive HDCVI Balun
	FM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester



Dimensions (mm [inch])



Accessories

Optional:



PFA130-E
Water-proof
Junction Box



PFA106
Mount
Adapter



PFB220C
Ceiling Mount
Bracket



PFB204W
Wall Mount
Bracket



PFA152-E
Pole Mount
Bracket



PFM800-E
Passive HDCVI Balun



FM321D
12V 1A Power
Adapter



PFM904
Integrated Mount
Tester