

# DH-HAC-HDW1200EMP-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 to1200-S6-IL series.
- · Max. 30 fps@1080p.
- · 3D NR.
- · Smart Dual Light.
- · 40 m illumination distance.
- · Super Adapt.
- · Built-in mic.
- $\cdot$  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.

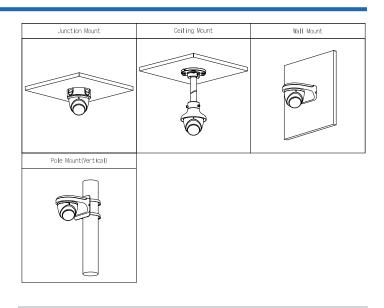
## Lite Series | DH-HAC-HDW1200EMP-IL-A

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Technical Specification					White Balance	Auto;Area white balance	
Camera						Gain Control	Auto
Image Sensor		2 MP CMOS				Noise Reduction	3D NR
Max. Resolution		1920 (H) × 1080 (V)				Illumination Mode	Smart IR&WL WL Mode; IR Mode
Scanning System		Progressive				Mirror	Yes
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s				Privacy Masking	Off/On (8 areas, rectangle)
Min. Illuminat	tion	0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				Certification  CE-LVD: EN 62368-1;	
S/N Ratio		>65 dB				Certifications	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
Illumination Distance		IR: 40 m (131.23 ft) Warm light: 40 m (131.23 ft)				Port	
Illuminator Or	n/Off Control	Auto				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illuminator Number		2 (Warm light); 2 (IR light)				Audio Input	1 channel
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78°				Power	
Long		Rotation: 0°–360°				Power Supply	12 VDC ± 30%
Lens		- 16 I				Power Consumption	Max 4.1W (12 VDC, IR on)
Lens Type		Fixed-focal				Environment	
Auto Focus		No				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Lens Mount		M12				Operating Humidity	<95% (RH), non-condensing
Focal Length		2.8 mm; 3.6	mm			Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Max. Aperture		F2.0	.02°; V: 60°; D:	120°		Storage Humidity	<95% (RH), non-condensing
Field of View			3°; V: 48°; D: 1			Protection	IP67
Iris Control		Fixed				Structure	
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6mm: 0.7 m (2.30 ft)				Casing Material	Metal
	Lens	Detect	Observe	Recognize	Identify	Product Dimensions	ф106.0 mm × 99.2 mm (ф4.17" × 3.91")
DORI Distance	2.8 mm	41.1 m (135.83 ft)	16.5 m (42.13 ft)	8.3 m	4.1 m (13.45 ft)	Net Weight	0.45 kg (0.99lb)
	2.6	50.9 m	20.3 m	(27.23 ft) 10.2 m	5.1 m	Gross Weight	0.58kg (1.28 lb)
	3.6 mm	(166.99 ft)	(66.60 ft)	(33.46 ft)	(16.73 ft)	Installation	Wall mount; ceiling mount; vertical pole mount
Video							
		01.11					

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		

## Lite Series | DH-HAC-HDW1200EMP-IL-A

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



### Dimensions (mm [inch])

#### Accessories

#### Optional:



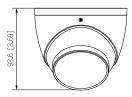
PFA130-E Water-proof Junction Box

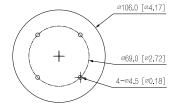


PFA106 Mount Adapter



PFB220C Ceiling Mount Bracket







PFB204W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester