

DH-HAC-HDW1200EM

2MP IR 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

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.

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.

- * 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.
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.











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.

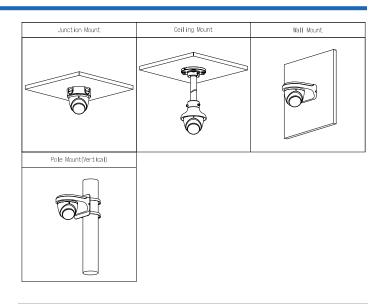
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Technical Specification					Gain Control	Auto	
Camera						Noise Reduction	3D NR
Image Sensor		2 MP CMOS				Illumination Mode	Smart IR
Max. Resolution		1920 (H) × 1080 (V)				Mirror	Yes
Scanning System		Progressive				Privacy Masking	Off/On (8 areas, rectangle)
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s				Certification	
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (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 16, Subpart B
S/N Ratio		>65 dB				Port	
Illumination Distance		50 m (164.04 ft)				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illuminator On/Off Control		Auto				Power	
Illuminator Number		1 (IR light)				Power Supply	12 VDC ± 30%
		Pan: 0°-360°				Power Consumption	Max 3.2 W (12 VDC, IR on)
Angle Adjustment		Tilt: 0°–78° Rotation: 0°–360°				Environment	
Lens						Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Lens Type		Fixed-focal				Operating Humidity	<95% (RH), non-condensing
Lens Mount		M12				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Focal Length		2.8 mm;3.6 mm				Storage Humidity	<95% (RH), non-condensing
Max. Aperture		F2.0				Protection	IP67
Field of View		2.8 mm: H: 99°; V: 55°; D: 114° 3.6 mm: H: 83°; V: 48°; D: 105°				Structure	
Iris Control		Fixed				Casing Material	Metal
Close Focus Distance		2.8 mm: 0.6m (1.97 ft) 3.6 mm: 0.7 m (2.30 ft)				Product Dimensions	Φ106.0 mm × 93.6 mm (Φ4.17" × 3.69")
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Net Weight	0.44 kg (0.97 lb)
		45.1 m	18.1 m	9.0 m	4.5 m	Gross Weight	0.60 kg (1.32 lb)
	2.8 mm	(147.97 ft)	(59.38 ft)	(29.53 ft)	(14.76 ft)	Installation	Wall mount; ceiling mount; vertical pole mount
	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)		

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	

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Ordering Information							
Туре	Model	Description					
21.4D Camara	DH-HAC-HDW1200EMP	2MP IR HDCVI Fixed-focal Eyeball Camera, PAL					
2MP Camera	DH-HAC-HDW1200EMN	2MP IR HDCVI Fixed-focal Eyeball Camera, NTSC					
	PFA139	Junction Box					
	PFA106	Mount Adapter					
	PFB220C	Ceiling Mount Bracket					
Accessories	PFB204W	Wall Mount Bracket					
(Optional)	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:



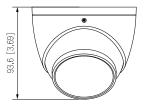
PFA139 Junction Box

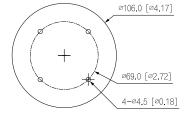


PFA106 Mount Adapter



PFB220C Ceiling Mount Bracket







PFB204W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFM800-E 1 Channel Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester