

DH-HAC-HDW1200EM-A

2MP HDCVI IR Eyeball Camera



- * The parameters and datasheets below can only be applied to 1200-S4 series.
- Max 30fps@1080P
- · HD and SD output switchable
- · Built-in mic
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Max. IR length 50m, Smart IR
- · IP67, DC12V















System Overview

various motorized/fixed lens models with a multi-language OSD and HD/ SD switchable output. Its structural flexibility and high cost-performance HD/SD DVRs. makes the camera an ideal choice for SMB solutions.

Functions

4 Signals over 1 Coaxial Cable

cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the XVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance With working temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the without any loss. It supports up to 800m(1080P)/1200m(720P) trans-camera is designed for extreme temperature environments. mission via coaxial cable, and up to 300m(1080P)/450m(720P) via UT\$upporting ±30% input voltage tolerance, this camera suits even the most cable.*

*Actual results verified by real-scene testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

The camera is designed with array LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

Multi-formats

Experience 1080P full HD video and the simplicity of using existing cabling The camera supports multiple video formats including HDCVI, CVBS and infrastructure with HDCVI. The Lite series 1080P HDCVI camera features a other two common HD analog formats in the market. The four formats can compact design and offers a high quality image at a friendly price. It offers be switched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with most end users' existing

Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, HDCVI technology supports 4 signals to be transmitted over 1 coaxia privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments.

unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Lite Series | DH-HAC-HDW1200EM-A

Camera				
Image Sensor	1/2.7" CMOS			
Effective Pixels	1920(H)×1080(V), 2MP			
Scanning System	Progressive			
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s			
Minimum Illumination	0.02Lux/F1.85, 30IRE, 0Lux IR on			
S/N Ratio	More than 65dB			
IR Distance	Up to 50m (164feet)			
IR On/Off Control	Auto / Manual			
IR LEDs	1			
Lens				
Lens Type	Fixed lens / Fixed iris			
Mount Type	Board-in			
Focal Length	3.6mm (2.8mm, 6mm Optional)			
Max Aperture	F1.85			
Angle of View	H: 87.5° (103°, 54.7°)			
Focus Control	N/A			
Close Focus Distance	500mm (900mm, 2000mm) 19.69" (35.43", 78.74")			
DORI Distance				

Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

	DORI Definition	Distance
Detect	25px/m (8px/ft)	2.8mm: 37m(122ft) 3.6mm: 53m(175ft) 6mm: 80m(262ft)
Observe	63px/m (19px/ft)	2.8mm: 15m(49ft) 3.6mm: 21m(70ft) 6mm: 32m(105ft)
Recognize	125px/m (38px/ft)	2.8mm: 8m(25ft) 3.6mm: 11m(35ft) 6mm: 16m(52ft)
Identify	250ppm (76px/ft)	2.8mm: 4m(12ft) 3.6mm: 5m(17ft) 6mm: 8m(26ft)

Pan / Tilt / Rotation

	Pan: 0° ~ 360°
Pan/Tilt/Rotation	Tilt: 0° ~ 78°
	Rotation: 0° ~ 360°

Video

Resolution	1080P (1920×1080)
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P

Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)
Day/Night	Auto (ICR) / Manual
OSD Menu	Multi-language
BLC Mode	BLC / HLC / DWDR
WDR	DWDR
Gain Control	AGC
Noise Reduction	2D
White Balance	Auto / Manual
Smart IR	Auto / Manual

Certifications

	CE (EN55032, EN55024, EN50130-4)
Certifications	FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
	UL (UL60950-1+CAN/CSA C22.2 No.60950-1)

Interface

Audio Interface	Built-in Mic

Eelectrical

Power Supply	12V DC ±30%
Power Consumption	Max 4.2W (12V DC, IR on)

Environmental

Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 95% RH * Start up should be done at above -40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH
Ingress Protection & Vandal Resistance	IP67

Construction

Casing	Aluminium
Dimensions	Ф106mm×93.7mm (Ф4.17"×3.69")
Net Weight	0.44kg (0.97lb)
Gross Weight	0.59kg (1.3lb)

Lite Series | DH-HAC-HDW1200EM-A

Ordering Information			
Туре	Part Number	Description	
	DH-HAC-HDW1200EMP-A 2.8mm		
	DH-HAC-HDW1200EMP-A 3.6mm	2MP HDCVI IR Eyeball Camera, PAL	
2MP Camera	DH-HAC-HDW1200EMP-A 6mm		
Zivii Camera	DH-HAC-HDW1200EMN-A 2.8mm		
	DH-HAC-HDW1200EMN-A 3.6mm	2MP HDCVI IR Eyeball Camera, NTSC	
	DH-HAC-HDW1200EMN-A 6mm		
	PFA130-E	Junction box (For use alone)	
	PFB204W	Wall mount (For use alone or with PFA152-E pole mount)	
	PFA152-E	Pole mount (For use with PFB204W wall mount)	
	PFM800-E	Passive HDCVI Balun	
Accessories	PFM800-4K	Passive Video Balun	
	PFM800B-4K	Passive Video Balun	
	PFM321	12V 1A Power Adapter	
	PFM320D-015	12V 1.5A Power Adapter	
	PFM300	12V 2A Power Adapter	
	PFM820	UTC Controller	

	SO	

Optional:



PFA130-E Junction box



PFB204W Wall mount



PFA152-E Pole mount



PFM800-E Passive HDCVI Balun



PFM800-4K Passive Video Balun



PFM800B-4K Passive Video Balun



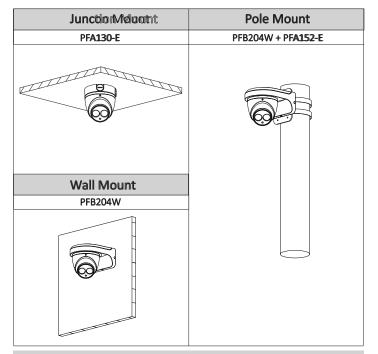
PFM321 12V 1A Power Adapter



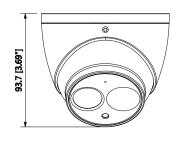
PFM320D-015 Power Adapter

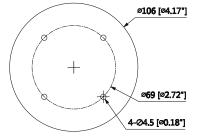


PFM300 Power Adapter



Dimensions (mm/inch)







PFM820 UTC Controller

