

DH-HAC-HDW1200EM-A

2MP HDCVI IR Eyeball Camera



- · Max 30fps@1080P
- · HD and SD output switchable
- Built-in mic
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- \cdot Max. IR length 50m, Smart IR
- · IP67, DC12V



System Overview

Experience 1080P full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 1080P HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance makes the camera an ideal choice for SMB solutions.

Functions

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial 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 without any loss. It supports up to 800m(1080P)/1200m(720P) transmission via coaxial cable, and up to 300m(1080P)/450m(720P) via UTP 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.

Smart IR

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

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with most end users' existing HD/SD DVRs.

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, 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.

With working temperature range of -40 $^\circ C$ to +60 $^\circ C$ (-40 $^\circ F$ to +140 $^\circ F), the camera is designed for extreme temperature environments.$

Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the most 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

Technical Specification

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(121ft) 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(26ft) 3.6mm: 11m(35ft) 6mm: 16m(52ft)
Identify	250ppm (76px/ft)	2.8mm: 4m(13ft) 3.6mm: 5m(17ft) 6mm: 8m(26ft)

Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 360° 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			
Certifications	CE (EN55032, EN55024, EN50130-4) 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 3.6W (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 $^{\sim}$ +60°C (-40°F $^{\sim}$ +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)		

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Ordering Information		Junction Mount	Pole Mount	
Туре	Part Number	Description	PFA130-E	PFB204W + PFA152-E
2MP Camera DH-HAC-HDW1200EMP-A 3. DH-HAC-HDW1200EMP-A 6r DH-HAC-HDW1200EMN-A 2. DH-HAC-HDW1200EMN-A 3.	DH-HAC-HDW1200EMP-A 2.8mm			
	DH-HAC-HDW1200EMP-A 3.6mm	2MP HDCVI IR Eyeball Camera, PAL		
	DH-HAC-HDW1200EMP-A 6mm			
	DH-HAC-HDW1200EMN-A 2.8mm	2MP HDCVI IR Eyeball Camera, NTSC		
	DH-HAC-HDW1200EMN-A 3.6mm			
	DH-HAC-HDW1200EMN-A 6mm		Wall Mount	
	PFA130-E	Junction box (For use alone)	PFB204W	
PFB204W PFA152-E PFM800-E PFM800-4K PFM800B-4K PFM321 PFM320D-015	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		
	PFM800-4K	Passive Video Balun		
	PFM800B-4K	Passive Video Balun		
	PFM321	12V 1A Power Adapter		
	PFM320D-015	12V 1.5A Power Adapter	Dimensions (mm/inch)	
	PFM300	12V 2A Power Adapter	<u>↑</u>	Ø106
	PFM820	UTC Controller		

Accessories

Optional:







Pole mount

PFA130-E Junction box

PFM800-E

PFM321 12V 1A Power

Adapter

100 PFM820 UTC Controller

Rev 001.001

Passive HDCVI Balun



PFM800-4K

Passive Video Balun



PFM800B-4K



PFM320D-015 Power Adapter

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Passive Video Balun



PFM300 Power Adapter







