

DH-HAC-HDW1400EM-A

4MP HDCVI IR Eyeball Camera





- * The parameters and datasheets below can only be applied to 1400-S2 series.
- · Max. 30fps@4MP
- · Built-in mic
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Max. IR length 50m, Smart IR
- · IP67, DC12V















System Overview

Experience superior 4MP video and the simplicity of reusing existing coaxial infrastructure with HDCVI. The Lite series 4MP HDCVI camera features a compact design and offers a high quality image with rich details at a friendly price. It offers various vari-focal/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

Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

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 HCVR, 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 long-distance and real-time transmission without any loss. It supports up to 700m for 4MP HD video via coaxial cable, and up to 300m 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. This feature makes the camera compatible with not only XVRs, but also most existing HD/SD DVRs

st Use OSD menu to switch HDCVI to other video formats. Use PFM820 UTC Controller to switch CVBS to HDCVI video format

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 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments.

Supporting ±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.

Technical Specification	
Camera	
Image Sensor	1/2.7" CMOS
Effective Pixels	2560(H)×1440(V), 4MP
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s
Minimum Illumination	0.03Lux/F2.0, 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	F2.0
Angle of View	H: 76.4° (97°/48.6°) V: 41.6° (52°/27.9°)
Focus Control	N/A
Close Focus Distance	1400mm (800mm/2500mm) 55.1" (31.5"/98.4")

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: 56m(184ft) 3.6mm: 80m(262ft) 6mm: 120m(394ft)
Observe	63px/m (19px/ft)	2.8mm: 22m(73ft) 3.6mm: 32m(105ft) 6mm: 48m(157ft)
Recognize	125px/m (38px/ft)	2.8mm: 11m(37ft) 3.6mm: 16m(52ft) 6mm: 24m(79ft)
Identify	250ppm (76px/ft)	2.8mm: 6m(18ft) 3.6mm: 8m(26ft) 6mm: 12m(39ft)

Pan / Tilt / Rotation

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

Resolution	4MP (2560×1440)
Frame Rate	25/30fps@4MP, 25/30fps@1080P

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. 3.9W (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)

Construction

Resistance

Storage Conditions

Ingress Protection & Vandal

Casing	Aluminium
Dimensions	Ф106mm×93.7mm (Ф4.17"×3.69")
Net Weight	0.41kg (0.90lb)
Gross Weight	0.51kg (1.12lb)

IP67

-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 95% RH

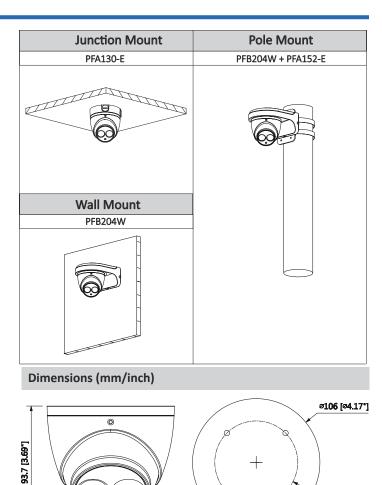
Lite Series | DH-HAC-HDW1400EM-A

Ordering II	nformation		
Туре	Part Number	Description	
	DH-HAC-HDW1400EMP-A 2.8mm	4MP HDCVI IR Eyeball Camera, PAL	
	DH-HAC-HDW1400EMP-A 3.6mm		
4MP Camera	DH-HAC-HDW1400EMP-A 6mm		
4MP Camera	DH-HAC-HDW1400EMN-A 2.8mm		
	DH-HAC-HDW1400EMN-A 3.6mm	4MP HDCVI IR Eyeball Camera, NTSC	
	DH-HAC-HDW1400EMN-A 6mm		
Accessories	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)	
	PFM800-4K	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	

	PFM320D-015	12V 1.5A Power Adapter
	PFM300	12V 2A Power Adapter
	PFM820	UTC Controller
Accessories		
Optional:		









PFA130-E

Junction box

PFM800-4K Passive Video Balun



PFB204W

Wall mount

PFM800B-4K Passive Video Balun



PFM321 12V 1A Power Adapter



PFM320D-015 Power Adapter



PFM300 12V 2A Power Adapter



PFM820 UTC Controller



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