

DH-HAC-HDW1400EM

4MP HDCVI IR Eyeball Camera

HDCVI



- · Max 30fps@4MP
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm, 6mm, 8mm optional)
- · Max. IR length 50m, Smart IR
- · IP67, DC12V













System Overview

Experience superior clarity of real-time 4Mega-pixel video with the simplicity of using existing cabling infrastructure. The Lite series features compact design and high quality image at friendly price. It offers various vari-focal/fixed lens models with multi-language OSD and HD/SD switchable output. The structure flexibility and best cost-performance makes lite series 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 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.

HD/SD Switchable

The camera supports switchable HDCVI high definition video output and CVBS standard definition video output. The two formats can be switched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with both HCVRs and existing analog DVRs and also facilitates debugging through analog testers.

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 ±25% 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-HDW1400EM

| Technical Specification | 1 | | Vio | deo | | | |
|--|---|--|-----|---|--|--|--|
| Camera | | | Res | solution | 4MP (2560×1440) | | |
| Image Sensor | 1/3" CMOS | /3" CMOS | | me Rate | 25/30fps@4MP, 25/30fps@1080P, 25/30fps@720P | | |
| Effective Pixels | 2688(H)×1520(V), 4.1MF | 2688(H)×1520(V), 4.1MP | | eo Output | 1-channel BNC high definition video output / CVBS video output (Can switch) | | |
| Scanning System | Progressive | | Day | //Night | Auto (ICR) / Manual | | |
| Electronic Shutter Speed | PAL: 1/25~1/100000s NTSC: 1/30~1/100000s | | OSI | D Menu | Multi-language | | |
| Minimum Illumination | 0.03Lux/F2.0, 30IRE, 0Lu | 0.03Lux/F2.0, 30IRE, 0Lux IR on | | Mode | BLC / HLC / DWDR | | |
| S/N Ratio | More than 65dB | | WD | DR . | DWDR | | |
| IR Distance | Up to 50m (164feet) | | Gai | n Control | AGC | | |
| IR On/Off Control | Auto / Manual | | Noi | ise Reduction | 2D | | |
| IR LEDs | 1 | | Wh | ite Balance | Auto / Manual | | |
| Lens | | | Sm | art IR | Auto / Manual | | |
| Lens Type | ens Type Fixed lens / Fixed iris | | Ce | Certifications | | | |
| Mount Type Focal Length | Board-in 3.6mm (2.8mm, 6mm, 8 | Board-in 3.6mm (2.8mm, 6mm, 8mm Optional) | | tifications | 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) | | |
| Max Aperture | F2.0 | F2.0 | | Interface | | | |
| Angle of View | H: 84.8° (99.7°/52.5°/32 | H: 84.8° (99.7°/52.5°/32.9°) | | dio Interface | N/A | | |
| Focus Control | N/A | N/A | | Eelectrical | | | |
| Close Focus Distance | | 1100mm (800mm/2200mm/4000mm) 43.3" (31.5"/86.6"/157.5") | | wer Supply | 12V DC ±25% | | |
| DORI Distance | | | Pov | wer Consumption | Max 4.1W (12V DC, IR on) | | |
| Note: The DORI distance is a "g | general proximity" of distar | ice which makes it easy to | En | Environmental | | | |
| 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. | | | Ор | Operating Conditions -40°C ~ +60°C (-40°F ~ +140°F) / Less th * Start up should be done at above -40 | | | |
| DORI | | | Sto | rage Conditions | -40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH | | |
| Detect | Definition | 2.8mm: 63m(208ft) 3.6mm: 80m(262ft) 6mm: 117m(385ft) 8mm: 161m(527ft) | _ | ress Protection &Vandal sistance | IP67 | | |
| | 25px/m (8px/ft) | | Со | Construction | | | |
| | | | Cas | sing | Aluminium | | |

| | DORI Definition | Distance | | |
|-----------------------|----------------------|--|--|--|
| Detect | 25px/m (8px/ft) | 2.8mm: 63m(208ft) 3.6mm: 80m(262ft) 6mm: 117m(385ft) 8mm: 161m(527ft) | | |
| Observe | 63px/m (19px/ft) | 2.8mm: 25m(83ft) 3.6mm: 32m(105ft) 6mm: 47m(154ft) 8mm: 64m(210ft) | | |
| Recognize | 125px/m (38px/ft) | 2.8mm: 13m(42ft) 3.6mm: 16m(53ft) 6mm: 23m(77ft) 8mm: 32m(105ft) | | |
| Identify | 250ppm (76px/ft) | 2.8mm: 6m(21ft) 3.6mm: 8m(26ft) 6mm: 12m(39ft) 8mm: 16m(53ft) | | |
| Pan / Tilt / Rotation | | | | |

Pan: 0° ~ 360° Tilt: 0° ~ 78°

Rotation: 0° ~ 360°

Pan/Tilt/Rotation

| Ordering Information | | | | | |
|----------------------|----------------------------|--|--|--|--|
| Туре | Part Number | Description | | | |
| | DH-HAC-HDW1400EMP 2.8mm | | | | |
| | DH-HAC-HDW1400EMP 3.6mm | 4MP HDCVI IR Eyeball Camera, PAL | | | |
| | DH-HAC-HDW1400EMP 6mm | | | | |
| 4MP Camera | DH-HAC-HDW1400EMP 8mm | | | | |
| 4IVIF Calliela | DH-HAC-HDW1400EMN 2.8mm | | | | |
| | DH-HAC-HDW1400EMN 3.6mm | 4MP HDCVI IR Eyeball Camera, NTSC | | | |
| | DH-HAC-HDW1400EMN 6mm | | | | |
| | DH-HAC-HDW1400EMN 8mm | | | | |
| | PFA139 | Junction box (For use alone) | | | |
| | PFB204W | Wall mount (For use alone or with PFA152 pole mount) | | | |
| | PFA152 | Pole mount (For use with PFB204W wall mount) | | | |
| Accessories | PFM800 | Passive HDCVI Balun | | | |
| | PFM801 | Passive HDCVI Balun with Power | | | |
| | PFM809-4CH | 4 Channel Passive HDCVI Balun | | | |
| | PFM809 | 16 Channel Passive HDCVI Balun | | | |
| | PFM810 | POC Transceiver | | | |

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| Α | r | r | Δ | c | c | n | r | Δ | c |
| _ | • | · | c | Э | Э | v | | | |

Optional:



PFA139 Junction box



PFB204W Wall mount



PFA152 Pole mount



PFM800 Passive HDCVI Balun



PFM801 Passive HDCVI Balun with Power



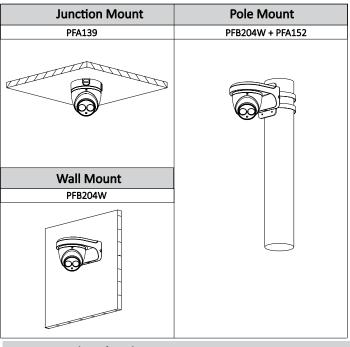
PFM809-4CH 4 Channel Passive HDCVI Balun



PFM809 16 Channel Passive HDCVI Balun



PFM810 POC Transceiver



Dimensions (mm/inch)

