

DH-HAC-HDBW2601R-Z

6MP WDR HDCVI IR Dome Camera

HDCVI



- 120dB True WDR, 3DNR
- Max. 6MP resolution
- HD/SD switchable
- Audio in interface
- 2.7-13.5mm motorized lens
- Max. IR length 30m, Smart IR
- IP67, IK10, DC12V±30%



System Overview

Experience 6 megapixel video with the simplicity of reusing existing coaxial infrastructure. The 6MP HDCVI camera presents a high quality image with rich details and accurate color rendition, and supports 120dB true WDR for a clear image in poor lighting conditions. The camera also features broadcast-quality audio to provide enhanced supplementary evidence collection. The higher resolution and complete set of features makes the 6MP HDCVI camera an ideal choice for mid to large-size businesses and projects where both highly reliable surveillance and construction flexibility are demanded.

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 real-time transmission at long distance without any loss. It supports up to 700m transmission for 4K and 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.

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.

Multiple-formats

The camera supports multiple video formats including HDCVI, CVBS, and other two common HD analog formats in the market. A DIP switch located on the cable allows you to quickly toggle formats, further simplifying installation and debugging. This feature makes the camera compatible with not only XVRs, but also most existing HD/SD DVRs.

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.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

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.

The camera complies with an IK10 vandal resistance rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in).

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 | 1/2.9" CMOS |
| Effective Pixels | 3096(H)×2202(V), 6MP |
| Scanning System | Progressive |
| Electronic Shutter Speed | PAL: 1/4s~1/100,000s NTSC: 1/3s~1/100,000s |
| Minimum Illumination | 0.01Lux/F1.3, 30IRE, 0Lux IR on |
| S/N Ratio | More than 65dB |
| IR Distance | Up to 30m (98feet) |
| IR On/Off Control | Auto / Manual |
| IR LEDs | 2 |

Lens

| | |
|----------------------|-----------------------------|
| Lens Type | Motorized lens / Fixed iris |
| Mount Type | Board-in |
| Focal Length | 2.7-13.5mm |
| Max Aperture | F1.3 |
| Angle of View | H: 88°~24° |
| Focus Control | Auto / Manual |
| Close Focus Distance | 300mm 11.8" |

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 | |
|-----------|-------------------|------------|-------------|
| | | Wide | Tele |
| Detect | 25px/m (8px/ft) | 79m(259ft) | 274m(899ft) |
| Observe | 63px/m (19px/ft) | 32m(105ft) | 110m(361ft) |
| Recognize | 125px/m (38px/ft) | 16m(52ft) | 55m(180ft) |
| Identify | 250px/m (76px/ft) | 8m(26ft) | 27m(89ft) |

Pan / Tilt / Rotation

| | |
|-------------------|---|
| Pan/Tilt/Rotation | Pan: 0° ~ 355° Tilt: 0° ~ 75° Rotation: 0° ~ 355° |
|-------------------|---|

Video

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|--------------|---|
| Resolution | 6MP (3096×2202) |
| Frame Rate | 20fps@6MP, 25/30fps@4MP |
| Video Output | 1-channel BNC high definition video output / CVBS video output (DIP switch) |
| Day/Night | Auto (ICR) / Manual |

| | |
|-----------------|-----------------|
| OSD Menu | Multi-language |
| BLC Mode | BLC / HLC / WDR |
| WDR | 120dB |
| Gain Control | AGC |
| Noise Reduction | 2D/3D |
| 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 | 1 |
|-----------------|---|

Electrical

| | |
|-------------------|--------------------------|
| Power Supply | 12V DC ±30% |
| Power Consumption | Max 6.8W (12V DC, IR on) |

Environmental

| | |
|--|--|
| Operating Conditions | -30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH * Start up should be done at above-30°C (-22°F) |
| Storage Conditions | -30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH |
| Ingress Protection & Vandal Resistance | IP67 & IK10 |

Construction

| | |
|--------------|----------------------------|
| Casing | Aluminium |
| Dimensions | Φ122mm×88.9mm (Φ4.8"×3.5") |
| Net Weight | 0.455kg (1.0lb) |
| Gross Weight | 0.625kg (1.38lb) |

Ordering Information

| Type | Part Number | Description |
|-------------|-----------------------------------|---|
| 6MP Camera | DH-HAC-HDBW2601RP-Z 2.7~13.5mm | 6MP WDR HDCVI IR Dome Camera, PAL |
| | DH-HAC-HDBW2601RN-Z 2.7~13.5mm | 6MP WDR HDCVI IR Dome Camera, NTSC |
| Accessories | PFA137 | Junction box (For use alone) |
| | PFB200C | Inceiling mount (For use alone) |
| | PFB203W | Wall mount (For use alone or with PFA152-E pole mount) |
| | PFA152-E | Pole mount (For use with PFB203W wall mount) |
| | FPA200W | Rain shade (For use with PFB203W wall mount or with PFB203W wall mount and PFA152-E pole mount) |
| | PFA106 | Adapter Plate of Mini Dome & Eyeball Camera |
| | PFB220C | Ceiling Mount Bracket of Mini Dome & Eyeball Camera |
| | PFM800-E | Passive HDCVI Balun |
| | PFM321 | 12V 1A Power Adapter |
| | PFM320 | 12V 2A Power Adapter |
| | PFM320D-015 | 12V 1.5A Power Adapter |

Accessories

Optional:



PFA137
Junction box



PFB200C
Inceiling mount



PFB203W
Junction box



PFA152-E
Pole mount



PFA200W
Rain shade



PFA106
Adapter plate



PFB220C
Ceiling mount
bracket



PFM800-E
Passive HDCVI Balun



PFM321
12V 1A Power Adapter



PFM320
12V 2A Power Adapter



PFM320D-015
Power Adapter

| Junction Mount | In-ceiling Mount |
|----------------------------|----------------------------|
| PFA137 | PFB200C |
| | |
| Wall Mount | Pole Mount |
| PFB203W | PFB203W + PFA152-E |
| | |
| Wall Mount with Rain Shade | Ceiling Mount (Extensible) |
| PFA137+PFA200W | PFA106+PFB220C |
| | |
| Pole Mount with Rain Shade | |
| PFA137+PFA200W+PFA152-E | |
| | |

Dimensions (mm/inch)

