

EXP-4CHN-2BUL-5MP

4CHN 2CAM 5MP Bullet



RECORDER FEATURES:

- H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 6/12 channels IP camera inputs, each channel up to 5MP; Max 20/40Mbps Incoming Bandwidth
- Long transmission distance over coax cable
- Supports 1 SATA HDD, up to 6TB



CAMERA FEATURES:

- Max. 20fps@5MP
- HD and SD output switchable
- 2.8mm fixed lens
- Max. IR length 20m, Smart IR
- IP67, DC12V

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System Overview

Experience 5MP video and the simplicity of using existing cabling infrastructure with HDCVI. The 5MP HDCVI camera features a compact design and offers a high quality image 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

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 for 5MP HD video via coaxial cable, and up to 300m via UTP cable.*

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 ana-log 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 microcrystalline LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. The 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 not only XVRs but also 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°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 | 2592(H)×1944(V), 5MP |
| Scanning System | Progressive |
| Electronic Shutter Speed | PAL: 1/25~1/100000s NTSC: 1/30~1/100000s |
| Minimum Illumination | 0.04Lux/F2.0,, 30IRE, 0Lux IR on |
| S/N Ratio | More than 65dB |
| IR Distance | Up to 20m (66feet) |
| IR On/Off Control | Auto / Manual |

Lens

| | |
|----------------------|--|
| Lens Type | Fixed lens / Fixed iris |
| Mount Type | Board-in |
| Focal Length | 2.8mm |
| Max Aperture | F1.85 |
| Angle of View | H: 77.5° (93°, 49°) v: 56.5° (68°, 37°) |
| Focus Control | N/A |
| Close Focus Distance | 11400mm (800mm, 2500mm) 55.12" (31.50", 98.43") |

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: 63m(207ft) 3.6mm: 80m(262ft) 6mm: 120m(394ft) |
| Observe | 63px/m (19px/ft) | 2.8mm: 25m(83ft) 3.6mm: 32m(105ft) 6mm: 48m(157ft) |
| Recognize | 125px/m (38px/ft) | 2.8mm: 13m(41ft) 3.6mm: 16m(52ft) 6mm: 24m(79ft) |
| Identify | 250ppm (76px/ft) | 2.8mm: 6mm(21ft) 3.6mm: 8m(26ft) 6mm: 12m(39ft) |

Pan / Tilt / Rotation

| | |
|-------------------|---|
| Pan/Tilt/Rotation | Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotation: 0° ~ 360° |
|-------------------|---|

Video

| | |
|--------------|---|
| Resolution | 5MP (2592×1944) |
| Frame Rate | 20fps@5MP, 25/30fps@4MP, 25/30@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) |
|----------------|--|

Interface

| | |
|-----------------|-----|
| Audio Interface | N/A |
|-----------------|-----|

Electrical

| | |
|-------------------|---------------------------|
| Power Supply | 12V DC ±30% |
| Power Consumption | Max. 3.9W (12V DC, IR on) |

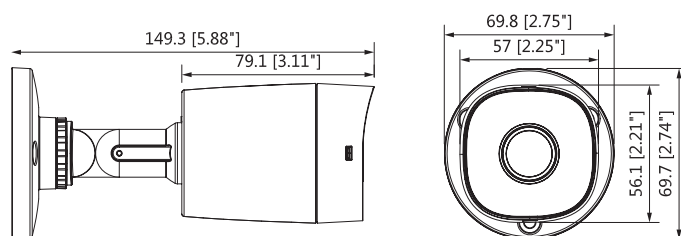
Environmental

| | |
|--|---|
| Operating Conditions | -40°C ~ +60°C (-40°F ~ +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 | Plastic |
| Dimensions | 70mm×70mm×149mm (2.76"×2.76"×5.87") |
| Net Weight | 0.15kg (0.33lb) |
| Gross Weight | 0.19kg (0.42lb) |

Dimensions (mm/inch)



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System Overview

Designed as a full compatibility product, this unit is able to provide end user the simplicity of analog system, namely lower system cost, simple installation and use of existing cable. And with the adoption of Smart H.265+/H.265, the series improves encoding efficiency, saving on bandwidth/storage costs. It is ideal for a wide range of civil applications such as retail store, home protection and so on.

Functions

Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

HDCVI/AHD/TVI/CVBS/IP Auto-detect

The unit can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

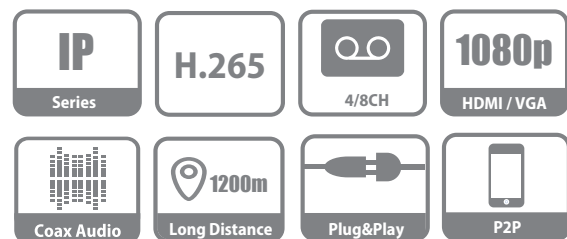
High Definition Camera Input

The unit supports up to 5MP HDCVI camera and 6MP IP camera input.

Coaxial Audio/Upgrade/Alarm

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

- H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 6/12 channels IP camera inputs, each channel up to 6MP;
- Max 24/48Mbps incoming bandwidth
- Long transmission distance over coax cable
- Supports 1 SATA HDD, up to 6TB
- Smart Search and Intelligent Video System



Long Distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the unit has the ability to detect and analyze moving objects for improved video surveillance. The unit provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed.

Face Detection

It is a typical technology being used in a variety of applications for searching or identification of individuals.

Smart Search

This function helps you get more motion detect video during a short time through drawing a region when playback. It is very useful when an emergency occurs.

Technical Specification

System

| | |
|------------------|--------------------|
| Main Processor | Embedded Processor |
| Operating System | Embedded LINUX |

Video and Audio

| | |
|---------------------|--|
| Analog Camera Input | 4/8 Channel, BNC |
| HDCVI Camera | 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps |
| AHD Camera | 5MP, 4MP, 1080P@25/30, 720P@25/30fps |
| TVI Camera | 5MP, 4MP, 1080P@25/30, 720P@25/30fps |
| CVBS Camera | PAL/NTSC |
| IP Camera Input | 4+2/8+4CH, each channel up to 6MP |
| Audio In/Out | 1/1, RCA |
| Two-way Talk | Reuse audio in/out, RCA |

Recording

| | |
|-------------------|---|
| Video Compression | H.265+/H.265/H.264+/H.264 |
| Resolution | 5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF |
| Record Rate | Main Stream: 4CH: the 1st channel 5M-N(1~10fps); 8CH: the 1st & 2nd channels 5M-N(1~10fps); other channels 4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps) Sub stream: CIF/QCIF (1~15fps) |
| Video Bit Rate | 32Kbps ~ 6144Kbps Per Channel |
| Record Mode | Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop |
| Record Interval | 1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec |
| Audio Compression | AAC(only for the 1st channel), G.711A, G.711U, PCM |
| Audio Sample Rate | 8KHz, 16 bit Per Channel |
| Audio Bit Rate | 64Kbps Per Channel |

Display

| | |
|----------------------|---|
| Interface | 1 HDMI ,1 VGA |
| Resolution | 1920×1080, 1280×1024, 1280×720 |
| Multi-screen Display | When IP extension mode not enabled: 4CH: 1/4 8CH: 1/4/8/9 When IP extension mode enabled: 4CH: 1/4/6 8CH: 1/4/8/9/16 |
| OSD | Camera title, Time, Video loss, Camera lock, Motion detection, Recording |

Network

| | |
|------------------|---|
| Interface | 1 RJ-45 Port (100M) |
| Network Function | HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter ,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) |
| Max. User Access | 128 users |
| Smart Phone | iPhone, iPad, Android |
| Interoperability | ONVIF 16.12, CGI Conformant |

Video Detection and Alarm

| | |
|-----------------|--|
| Trigger Events | Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips |
| Video Detection | Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis |
| Alarm input | N/A |
| Relay Output | N/A |

Playback and Backup

| | |
|-------------------|---|
| Playback | 4CH: 1/4 8CH: 1/4/8 |
| Search Mode | Time /Date, Alarm, MD and Exact Search (accurate to second) |
| Playback Function | Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom |
| Backup Mode | USB Device/Network |

Storage

| | |
|--------------|---------------------------------|
| Internal HDD | 1 SATA Port, up to 6TB capacity |
| eSATA | N/A |

Auxiliary Interface

| | |
|-------|-----------|
| USB | 2 USB 2.0 |
| RS232 | N/A |
| RS485 | N/A |

Electrical

| | |
|---------------------------------|------------|
| Power Supply | DC12V/1.5A |
| Power Consumption (Without HDD) | <10W |

Construction

| | |
|--------------------------|--|
| Dimensions | Cooper 1U, 197mm×192mm×41mm (7.8"×7.6"×1.6") |
| Net Weight (without HDD) | 0.54kg (1.19lb) |
| Gross Weight | 1kg (2.2lb) |
| Installation | Desktop installation |

Environmental

| | |
|----------------------|--|
| Operating Conditions | -10°C ~ +45°C (+14°F ~ +113°F), 10~ 90% RH |
| Storage Conditions | -20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH |

Third-party Support

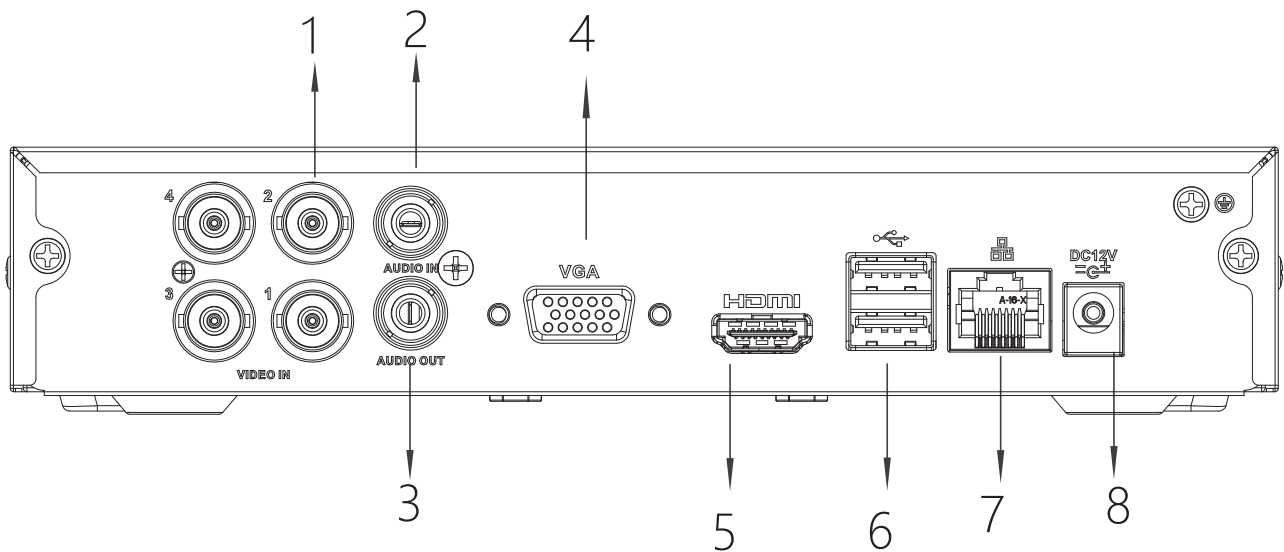
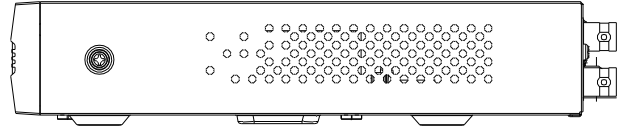
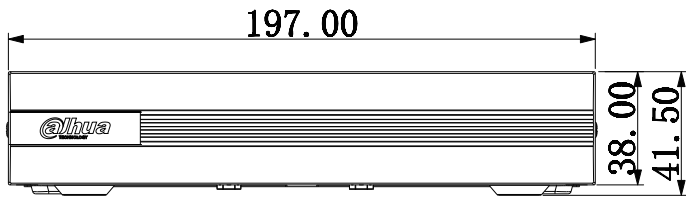
| | |
|---------------------|---|
| Third-party Support | Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more |
|---------------------|---|

Certifications

| | |
|----------------|--|
| Certifications | FCC: Part 15 Subpart B |
| | CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 |
| | UL: UL 60950-1 |

EXP-4CHN-2BUL-5MP

Dimensions (mm)



Rear Panel

- | | |
|----------------------------|---------------------|
| 1 VIDEO IN | 5 HDMI Interface |
| 2 AUDIO IN, RCA Connector | 6 USB Interface |
| 3 AUDIO OUT, RCA Connector | 7 Network Interface |
| 4 VGA Interface | 8 DC12V Power Input |