

# EAGLE-KIT-8-4BUL-5MP-1TB

8CH 4CAM 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 6MP;  
Max 24/48 Mbps Incoming Bandwidth
- Supports SMD, human face detection, IVS
- All-channel support HDCVI PoC AT & AF camera



## CAMERA FEATURES:

- Max. 20pfs@5MP
- Built-in mic
- HD and SD output switchable
- 2.8mm fixed lens
- Max. IR length 30m, Smart IR
- IP67, POC/DC12V

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### HDCVI



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#### System Overview

Experience superior 5MP video and the simplicity of reusing existing coaxial infrastructure with HDCVI. The Lite series 5MP HDCVI camera features a compact design and offers a high quality image with rich details at a friendly price. This model is a PoC camera which can be powered by PoC XVR over a single coaxial cable with video, requiring no separate power supplies. PoC reduces time and cost for users, making it an ideal choice for applications with complex deployment but a tight budget.

#### 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 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 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 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 H DCVI, C VBS 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 4 KV 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	0.02Lux/F1.85, 30IRE, 0Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 30m (98feet)
IR On/Off Control	Auto / Manual
IR LEDs	1

### 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° V: 56.5°
Focus Control	N/A
Close Focus Distance	1400mm 55.1"

### 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)	3.6mm: 80m(262ft)
Observe	63px/m (19px/ft)	3.6mm: 32m(105ft)
Recognize	125px/m (38px/ft)	3.6mm: 16m(52ft)
Identify	250ppm (76px/ft)	3.6mm: 8m(26ft)

### Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotation: 0° ~ 360°
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### Video

Resolution	5MP (2592×1944)
Frame Rate	20fps@5MP, 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)
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### Interface

Audio Interface	Built-in Mic
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### Electrical

Power Supply	POC/12V DC ±30%
Power Consumption	Max. 3.6W (12V DC, IR on)

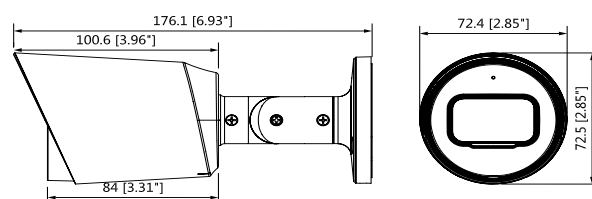
### Environmental

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	Aluminium
Dimensions	176mm×72.4mm×72.5mm (6.93"×2.85"×2.85")
Net Weight	0.37kg (0.82lb)
Gross Weight	0.48kg (1.06lb)

### Dimensions (mm/inch)



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### System Overview

With the surveillance operators pursuing to HD/UHD which further adds the storage and transmission cost, HDCVI H.265+/H.265 has been released to incredibly decrease the required bitrate while ensuring the video quality in realizing high resolution surveillance such as 4MP/4K.

The Lite Series is designed for high cost performance and quality. The range offers a great solution for users facing budget constraints who both require quality and performance. And with the adoption of Smart H.265+/H.265, the series improves encoding efficiency, saving on bandwidth/storage costs, and significantly reducing the Total Cost of Ownership (TCO).

### Functions

#### PoC

This series product supports PoC (Power over Coax) function. All-channel support PoC AT & AF camera: AT camera power consumption is less than 12W, AF power consumption is less than 6W.

PoC power auto limitation. PoC over current/short circuit auto protection, auto power off after unplug the cable.

Auto recognize the PoC camera of different power consumptions.

Display PoC camera information such as current power consumption status, remaining power capability.

Manually disable PoC function, compatible with the UTP transmission.

Disable PoC function before connecting to balun.

#### 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 Auto-detect

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

#### High Definition Camera Input

The XVR 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.

### Long Distance Transmission

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

PoC mode: The HDCVI system supports video no-loss long distance transmission and coaxial cable control for 5MP, 4MP, 1080P, 720P camera (HDCVI, AHD, TVI). min. 100m for AT camera, min. 200m for AF camera.

### Smart Fan Design

The smart fan can automatically turn on or turn off according to the CPU temperature. This function can effectively reduce the fan noise to provide a better user experience.

### Intelligent Video System (IVS)

With built-in intelligent video analytics, the XVR has the ability to detect and analyze moving objects for improved video surveillance. The XVR 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+4 Channel, each channel up to 6MP
Audio In/Out	1/1, RCA
Two-way Talk	Reuse audio in/out, RCA

### Recording

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

### Display

Interface	1 HDMI ,1 VGA
Resolution	4CH: 1920 × 1080, 1280 × 1024, 1280 × 720 8CH:HDMI:1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 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: 8CH: 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, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, 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: 1/4/9
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 10TB capacity
eSATA	N/A

### Auxiliary Interface

USB	2 USB 2.0
RS232	N/A
RS485	1 Port, for PTZ Control

### Electrical

Power Supply	4CH: 53V DC/1.13A 8CH: 53V DC/1.81A
Power Consumption (without HDD)	4CH: ≤5W 8CH: ≤8W

### Construction

Dimensions	Mini 1U, 325 mm × 255 mm × 55 mm (12.8 " x 10 " x 2.2 ")
Device with PFH101 Rack Mount Tray	483 mm x 281 mm x 56 mm (19.0 " x 11.1 " x 2.2 ")
Net Weight (without HDD)	4CH: 1.16 kg (2.56 lb) 8CH: 1.24 kg (2.73 lb)
Gross Weight	4CH: 2.09 kg (4.60 lb) 8CH: 2.28 kg (5.03 lb)
Installation	Desktop installation

### Environmental

Operating Conditions	-10 °C to +55 °C (+14 °F to +131 °F), 10%RH-90%RH
Storage Conditions	-20 °C to +70 °C (-4 °F to +158 °F), 0%RH-90%RH

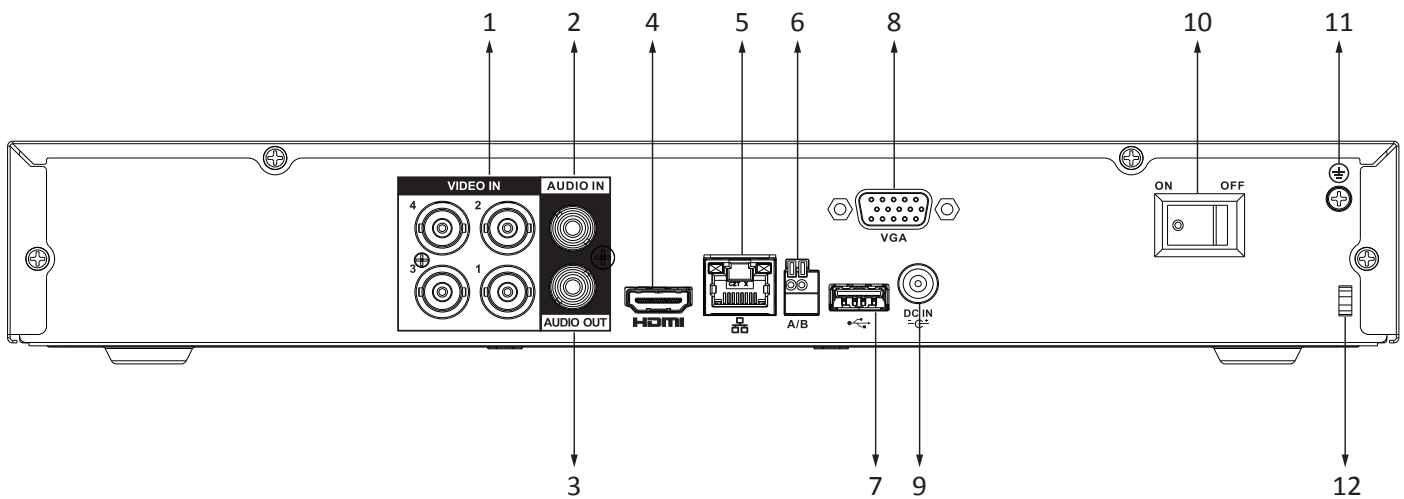
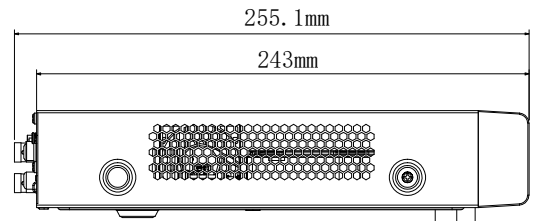
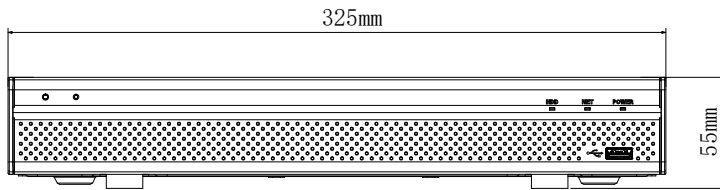
### Third-party Support

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

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

Dimensions (mm)



Rear Panel

- |                            |                         |
|----------------------------|-------------------------|
| 1 VIDEO IN                 | 7 USB Interface         |
| 2 AUDIO IN, RCA Connector  | 8 VGA Interface         |
| 3 AUDIO OUT, RCA Connector | 9 DC 12V Power Input    |
| 4 HDMI Interface           | 10 Power Switch         |
| 5 Network Interface        | 11 GND                  |
| 6 RS-485 Interface         | 12 Power Cable Fastener |