



# 4K AI 8 Channel Compact 1U DVR

CODE: EAG-4KL-PRO-AI3-8BB



- H.265+/H.265 dual-stream video compression
- Supports Full-channel AI Coding
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 16 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth
- Up to 2 channels video stream (analog channel) Perimeter Protection
- Up to 8 channels video stream (analog channel) SMD Plus
- Up to 2 channels video stream (analog channel) human face recognition
- IoT & POS functionalities



## Function

### Real Time Face Recognition

Video stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, mouth mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

\*The Face Recognition is conflicted with SMD Plus and Perimeter Protection.

### Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

### SMD Plus

SMD Plus, referred to as Smart Motion Detection Plus, is an upgraded version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithms. It analyzes people and vehicles. Compared with H.265, AI codec can reduce up to 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

### AI Coding

Compared with H.265, AI codec can reduce up to 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

### 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 4K HDCVI camera and 8MP 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

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

### AI Search

Extract and classify person and vehicles from massive video data, easy for end users to trace historical information and analyze. Person & Vehicle optional for playback to achieve quick target search, saving event retrieval time.

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HD  
ANALOGUE



## Technical Specification

### System

Main Processor	Embedded processor
Operating System	Embedded Linux

### Perimeter Protection

Perimeter Performance AI by Recorder (Number of Channels)	2 channels
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### Face Detection

Face Attributes	6 attributes: Gender, age groups (6), glasses, expressions (8), face mask, beard, with up to four detection panels displayed at the same time.
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Face Detection Performance of AI by Recorder (Number of Channels)	2 channels, and a single channel can detect up to 12 faces.
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### Face Recognition

Face Database Capacity	Up to 10 face databases and 20,000 pictures.
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Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels
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### SMD Plus

SMD Plus by Recorder	Full-channel SMD Plus (AI by recorder), secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change
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### Audio and Video

Analog Camera Input	8 channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured.
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Camera Input	1. CVI: 4K, 6MP, 5MP, 4MP, 1080P@25/30 fps, 720P@50/60fps, 720P@25/30fps. 2. TVI: 4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps. 3. AHD: 4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30 fps.
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IP Camera Input	8+8 channels, each channel up to 8MP
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Encoding Capacity	All channel 4K(1 fps-7 fps); 6MP(1 fps-10 fps); 5MP(1 fps-12 fps); 4K-N, 4MP/3MP(1 fps-15 fps); 4M-N/1080P/720P/960H/D1/CIF (1 fps-25/30 fps);
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Dual-stream	Supported (960H (1 fps-15 fps); D1/CIF(1 fps-25/30 fps)).
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Video Frame Rate	PAL: 1 fps-25 fps. NTSC: 1 fps-30 fps.
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Video Bit Rate	32 Kbps-6144 Kbps Per Channel
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Audio Sampling	8 KHz, 16 bit Per Channel
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Audio Bit Rate	64 Kbps Per Channel
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Bit Rate Type	Video stream and composite stream.
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Video Output	1 HDMI ,1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
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Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16
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Third-party Camera Access	Onvif, RTSP, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung
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## Compression Standard

Video Compression	AI Coding/H.265+/H.265/H.264+/H.264
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Audio Compression	G.711A/G.711u/PCM
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## Network

Network Protocol	HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P
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Mobile Phone Access	iPhone, iPad, Android
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Interoperability	ONVIF 16.12, CGI Conformant
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Browser	Chrome, IE9 or above, Firefox
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Network Mode	Single-address mode
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## Recording Playback

Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
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Recording Playback	1/4/09
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Backup Method	USB Device/Network
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Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
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## Alarm

General Alarm	Motion detection, Video Loss, tampering, and local alarm
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Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict
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Intelligent Alarm	Face detection, face recognition, perimeter protection
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Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email
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## Ports

Audio Input	1, RCA (external) 8, BNC (coaxial)
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Audio Output	1, RCA
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Two-way Talk	Yes (share the same audio input with the first channel)
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HDD Interface	1 SATA Port, up to 16TB for a single HDD, the maximum HDD capacity varies with environment temperature
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RS-485	1 Port, for PTZ Control
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USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)
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HDMI	1
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VGA	1
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Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
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## General

Power Supply	DC12V, 2A
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Power Consumption	Lower than 10W
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Net Weight	0.9 kg ( 1.98 lb)
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Gross Weight	1.5 kg ( 3.31 lb)
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Product Dimensions	Compact 1U, 260.0 mm × 237.4 mm × 47.6 mm (W × D × H) 10.24" × 9.35" × 1.87" (W × D × H)
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# 4K AI 8 Channel Compact 1U DVR

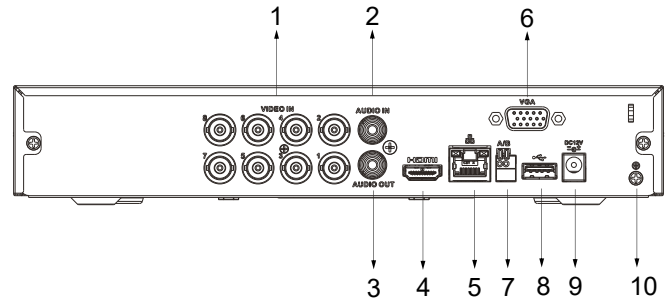
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Packaging Dimensions	333.0 mm × 89.0 mm × 315.0 mm (L × W × H) 13.11" × 3.50" × 12.40" (L × W × H)
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Operating Humidity	10%–90%
Installation	Desktop
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B

## Panels



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|----------------------------|---------------------------|
| 1 VIDEO IN                 | 2 AUDIO IN, RCA Connector |
| 3 AUDIO OUT, RCA Connector | 4 HDMI Port               |
| 5 Network Port             | 6 VGA Port                |
| 7 RS-485 Port              | 8 USB Port                |
| 9 Power Input              | 10 Ground                 |

## Dimensions (mm[inch])

