

5MP AI 16 Channel Compact 1U DVR

CODE: EAG-5MP-PRO-AI3-16BB



- H.265+/H.265 dual-stream video compression
- Supports Full-channel AI Coding
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 24 channels IP camera inputs, each channel up to 6MP; Max 128 Mbps incoming bandwidth
- Up to 2 channels video stream (analog channel) Perimeter Protection
- Up to 16 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 attribute analysis features include gender, age, expression, glasses, moustache, mouth, mask etc. It helps to identify people and also capture & record faces with metadata. Supports facial feature filtering while in real time display mode.

*Face Recognition takes effect when Face is selected in AI Mode.

Perimeter Protection

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

*Perimeter Protection takes effect when IVS&SMD is selected in AI Mode.

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 based on motion detection and sends alarms only when intrusion is detected.

*SMD Plus takes effect when SMD or IVS&SMD is selected in AI Mode.

AI Coding

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

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
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Technical Specification

| | |
|---|---|
| System | |
| Main Processor | Embedded processor |
| Operating System | Embedded Linux |
| Perimeter Protection | |
| Perimeter Performance AI by Recorder (Number of Channels) | 2 channels |
| 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. |
| Face Detection Performance of AI by Recorder (Number of Channels) | 2 channels, and a single channel can detect up to 12 faces. |
| Face Recognition | |
| Face Database Capacity | Up to 10 face databases and 10,000 pictures. |
| Face Recognition Performance of AI by Recorder (Number of Channels) | 2 channels |
| 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 |
| Audio and Video | |
| Analog Camera Input | 16 channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured. |
| Camera Input | 1. CVI: 5MP, 4MP, 1080P@25/30 fps, 720P@50/60 fps, 720P@25/30 fps. 2. TVI: 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30 fps. 3. AHD: 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30 fps. |
| IP Camera Input | 16+8 channels, each channel up to 6MP |
| Encoding Capacity | All channel 5M-N (1 fps-10 fps); 4M-N/1080P (1 fps-15fps); 1080N/720P/960H/D1/CIF (1fps-25/30 fps) |
| Dual-stream | Supported (D1/CIF (1 fps-15 fps)). |
| Video Frame Rate | PAL: 1 fps-25 fps. NTSC: 1 fps-30 fps. |
| Video Bit Rate | 32 Kbps-6144 Kbps Per Channel |
| Audio Sampling | 8 KHz, 16 bit Per Channel |
| Audio Bit Rate | 64 Kbps Per Channel |
| Bit Rate Type | Video stream and composite stream. |
| Video Output | 1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 when Face or IVS&SMD is selected in AI Mode. |
| Multi-screen Display | When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25 |
| Third-party Camera Access | Onvif, RTSP, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung |

Compression Standard

| | |
|---------------------|---|
| Video Compression | AI Coding/H.265+/H.265/H.264+/H.264 |
| Audio Compression | G.711A/G.711u/PCM |
| Network | |
| Network Protocol | HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P |
| Mobile Phone Access | iPhone, iPad, Android |
| Interoperability | ONVIF 16.12, CGI Conformant |
| Browser | Chrome, IE9 or above, Firefox |
| Network Mode | Single-address mode |

Recording Playback

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|--------------------|--|
| Record Mode | Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop |
| Recording Playback | 1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in AI Mode. |
| Backup Method | USB Device/Network |
| Playback Mode | Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection) |

Storage

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| Disk Group | Yes |
|------------|-----|

Alarm

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

Ports

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

General

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|--------------|-----------|
| Power Supply | DC12V, 4A |
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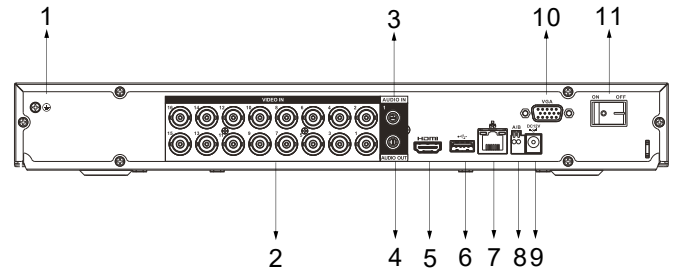
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|-----------------------|--|
| Power Consumption | Lower than 12W |
| Net Weight | 1.56 kg (3.44 lb) |
| Gross Weight | 2.86 kg (6.31 lb) |
| Product Dimensions | 1U, 375.0 mm × 289.0 mm × 53.0 mm (W × D × H) 14.76" × 11.38" × 2.09" (W × D × H) |
| Packaging Dimensions | 433.0 mm × 141.0 mm × 366.0 mm (L × W × H) 17.05" × 5.55" × 14.41" (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



- | | |
|---------------------------|----------------------------|
| 1 Ground | 2 VIDEO IN |
| 3 AUDIO IN, RCA Connector | 4 AUDIO OUT, RCA Connector |
| 5 HDMI Port | 6 USB Port |
| 7 Network Port | 8 RS-485 Port |
| 9 Power Input | 10 VGA Port |
| 11 Power Switch | |

Dimensions (mm[inch])

