EAG-5MP-PRO-AI-4
4 CHANNEL PENTA-BRID 5MP COMPACT 1U DIGITAL VIDEO RECORDER

This series of AI products and solutions adopt independent AI chips and deep learning algorithms. It focuses on humans and vehicles with high accuracy, enabling users to act fast on defined targets. The technology in these recorders provides intelligent, simple and inclusive products and solutions.

System Overview
This recorder features full-channel SMD Plus (except for 32-channel devices) to benefit customers from AI upgrade. The recorders are designated to reduce false-alarm rates and human surveillance costs, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

Functions

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. The unit supports facial feature filtering in real time display & only shows faces with target features.

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. Improves alarm accuracy.

SMD Plus
SMD Plus, referred to as Smart Motion Detection Plus, is an upgrading version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithms. It analyzes person and vehicle shapes based on motion detection and send alarms only when person and vehicle intrusion is detected.

AI Coding
Compared with H.265, AI codec can reduce up to 50% bit rate and storage requirements with 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 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. 700m for 4K/4MP, 800m for 1080P and 1200m 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.

https://qvis.co.uk
### Technical Specification

#### System
- **Main Processor**: Embedded Processor
- **Operating System**: Embedded LINUX

#### Perimeter Protection
- **Performance**: 2 channels, 10 IVS for each channel
- **Object classification**: Human/Vehicle secondary recognition for tripwire and intrusion
- **AI Search**: Search by target classification (Human, Vehicle)

#### Face Recognition
- **Performance**: Max 8 face pictures/sec processing
- **Stranger Mode**: Detect strangers’ faces (not in device’s face database). Similarity threshold can be set manually.
- **Database Management**: Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries & regions and state can be added to each face picture.
- **Database Application**: Each database can be applied to video channels independently.
- **Trigger Events**: Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.

#### SMD Plus
- **Performance**: 4 channels
- **AI Search**: Search by target classification (Human, Vehicle)

#### Video and Audio
- **Analog Camera Input**: 4 channels, BNC
- **HDCVI Camera Input**: 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps
- **AHD Camera Input**: 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
- **TVI Camera Input**: 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
- **CVBS Camera Input**: PAL/NTSC
- **IP Camera Input**: 4+2 channels, each channel up to 6MP
- **Audio In/Out**: 1/1, RCA
- **Two-way Talk**: Reuse audio in/out, RCA

#### Recording
- **Compression**: AI Coding/H.265+/H.265/H.264+/H.264
- **Resolution**: SM-N, 4M-N, 1080P, 1080N, 960H, D1, CIF
- **Record Rate**: Main stream: All channel SM-N (1fps–10fps); 4M-N/1080P (1fps–15fps); 1080N/720P/960H/ D1/CIF (1fps–25/30fps)
- **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 – 60 min (default: 60 min), Pre-record: 1 s–30 s, Post-record: 10 s–300 s

#### Audio Compression
- **Audio Sample Rate**: 8 KHz, 16 bit Per Channel
- **Audio Bit Rate**: 64 Kbps Per Channel

#### Display
- **Interface**: 1 HDMI, 1 VGA
- **Resolution**: 1920 × 1080, 1280 × 1024, 1280 × 720
- **Multi-screen Display**: When IP extension mode not enabled: 1/4
- **When IP extension mode enabled: 1/4/6

#### Network
- **Interface**: 1 RJ-45 Port (100 MB)
- **Network Function**: HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPoE, 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, 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**: 1/4
- **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 Ports (USB 2.0)
- **RS485**: 1 Port, for PTZ Control
- **RS232**: N/A

#### Electrical
- **Power Supply**: DC 12V/1.5A
- **Power Consumption (Without HDD)**: <4W

#### Construction
- **Dimensions**: Compact 1U, 260 mm × 238 mm × 48 mm (10.24” × 9.34” × 1.87”)
### EAG-5MP-PRO-AI-4

#### Net Weight
- (without HDD) 1.0 kg (2.2 lb)
- Gross Weight 1.4 kg (3.1 lb)

#### Installation
- Desktop installation

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

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

#### 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

#### Dimensions (mm [inch])

![Dimensions Diagram]