

EAG-4KL-PRO-AI-8

8 CHANNEL PENTA-BRID 4K COMPACT 1U DIGITAL VIDEO RECORDER



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



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 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. Facial feature filtering with 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 upgrading version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithm. It analyzes person and vehicle shapes based on motion detection and send alarms only when person and vehicle intrudes.

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.

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 Detection	
Performance	Max 12 face pictures/sec processing 2 channels video stream face recognition, only support analog camera
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.
AI Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.
Database Management	Up to 20 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries®ions 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	8 channels
AI Search	Search by target classification (Human, Vehicle)
Video and Audio	
Analog Camera Input	8 channels, BNC
HDCVI Camera Input	4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps
AHD Camera Input	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
TVI Camera Input	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
CVBS Camera Input	PAL/NTSC
IP Camera Input	8+8 channels, each channel up to 8MP
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	4K, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF
Record Rate	Main stream: All channel 4K(1fps-7fps); 6MP(1fps-10fps); 5MP(1fps-12fps); 4K-N, 4MP/3MP(1fps-15fps); 4M-N/1080P/720P/960H/D1/CIF (1fps-25/30fps); Sub steram:960H(1fps-15fps); 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: 1s-30s, Post-record: 10s-300s
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	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
Network	
Interface	1 RJ-45 Port (1000 MB)
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, 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	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 Ports (1 USB 2.0, 1 USB 3.0)
RS485	1 Port, for PTZ Control
RS232	N/A
Electrical	
Power Supply	DC 12V/2A
Power Consumption (Without HDD)	<10W

Construction

Dimensions	Compact 1U, 260 mm × 238 mm × 48 mm (10.24" × 9.34" × 1.87")
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

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
	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])

