



EAG-5MP-PRO-AI-16

16 CHANNEL PENTA-BRID 5MP 1U DIGITAL VIDEO RECORDER



- H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 24 channels IP camera inputs, each channel up to 6MP; Max 128 Mbps incoming bandwidth
- · Perimeter Protection and SMD Plus
- Up to 2 channels video stream (analog channel) human face recognition
- 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 (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.

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

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.

Al 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 De inition 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 tme.



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Technical Specification		Audio Compression	AAC (only for the 1st channel), G.711A, G.711U, PCM
System		Audio Sample Rate	8 KHz, 16 bit Per Channel
Main Processor	Embedded Processor	Audio Bit Rate	64 Kbps Per Channel
Operating System	Embedded LINUX	Display	
Perimeter Protection		Interface	1 HDMI ,1 VGA
Performance	2 channels, 10 IVS for each channel		VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion	Resolution	720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 when Face or IVS&SMD is selected in Al Mode.
Al Search	Search by target classification (Human, Vehicle)	Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16
Face Recognition		050	When IP extension mode enabled: 1/4/8/9/16/25 Camera title, Time, Video loss, Camera lock, Motion
Performance	Max 12 face pictures/sec processing	OSD	detection, Recording
renormance	2 channels video stream face recognition, only support analog camera	Network	
Stranger Mode	Detect strangers' faces (not in device's face database).	Interface	1 RJ-45 Port (1000 MB)
Al Search	Similarity threshold can be set manually. Up to 8 target face images search at same time, similarity threshold can be set for each target face image.	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.)
Database Management	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type,	Max. User Access	128 users
Database Management	cerificate No., countries®ions and state can be added to each face picture.	Smart Phone	iPhone, iPad, Android
Database Application	Each database can be applied to video channels independently .	Interoperability	ONVIF 16.12, CGI Conformant
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	Video Detection and	d Alarm
SMD Plus		Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Performance	16 channels	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis
Al Search	Search by target classification (Human, Vehicle)	Alarm input	N/A
Video and Audio		Relay Output	N/A
Analog Camera Input	16 channels, BNC	Playback and Backu	p
HDCVI Camera Input	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is
AHD Camera Input	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps		selected in Al Mode.
TVI Camera Input	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Search Mode	Time / Date, Alarm, MD and Exact Search (accurate to second)
CVBS Camera Input	PAL/NTSC	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full
IP Camera Input	16+8 channels, each channel up to 6MP	Backup Mode	Screen, Repeat, Shuffle, Backup Selection, Digital Zoom USB Device/Network
Audio In/Out	1/1, RCA	·	OSB DEVICE, NELWORK
Two-way Talk	Reuse audio in/out, RCA	Storage	2 CATA Dorto up to 1ATDity (
Recording		Internal HDD	2 SATA Ports, up to 10TB capacity for each disk
Compression	AI Coding/H.265+/H.265/H.264+/H.264	eSATA	N/A
Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF	Auxiliary Interface	
Record Rate	Main stream: All channel 5M-N (1fps–10fps); 4M-N/1080P (1fps–15fps); 1080N/720P/960H/ D1/CIF (1fps–25/30fps)	USB RS485	2 USB Ports (1 USB 2.0 , 1 USB 3.0) 1 Port, for PTZ Control
Dit Data	Sub stream: D1/CIF (1fps–15fps)	RS232	N/A
Bit Rate	32 Kbps–6144 Kbps Per Channel Manual, Schedule (General, Continuous), MD (Video	Electrical	
Record Mode		Power Supply	DC 12V/4A
Record Interval	1-60 min (default: 60 min), Pre-record: 1 s–30 s, Post-record: 10 s–300 s	Power Consumption (Without HDD)	<12W

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Construction

Dimensions	1U, 375 mm × 288 mm × 53 mm (14.76" × 11.37" × 2.09")
Net Weight (without HDD)	1.8 kg (4.0 lb)
Gross Weight	3.1 kg (6.8 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
Third-party Support	Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung,
	Sanyo, Sony, Videotec, Vivotek, and more

Certifications

	FCC: Part 15 Subpart B
Gertifications 3	CE: CE-LVD: EN 60950-1/IEC 60950-1
	<u>CE-EMC: EN 6100Ō-3-2, EN 6100Ō-3-3, EN 55032, EN</u> 50130, EN 55024

Dimensions (mm[inch])



