



EAG-NVR-4K-2AI-16BB

16 CHANNEL 4K 1U 16PoE NETWORK VIDEO RECORDER



This series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on humans and vehicles with high accuracy, enabling users to act fast on defined targets. The recorders provide intelligent, simple and inclusive solutions.

System Overview

This AI network video recorder is a highly cost-effective economical product, providing functions such as local live view, multi-screen display, real-time storage on local HDD, fast operation by mouse, and remote management and control. This product is suitable for face detection and recognition at entrances/exits, and perimeter protection of people and vehicles.

Functions

New User Interface

Local and web interfaces adopt the new UI 4.0 style which caters to users habits. Functional modules are divided more clearly and easier to understand.

Decoding (Smart H.265+/Smart H.264+)

Smart encoding (H.265+/ H.264+) is the optimized implementation of (H.265/H.264) codec that uses a scene-adaptive code rate control algorithm, providing more efficiency in the encoding process and higher video quality, and reducing the cost of storage and transmission significantly. This NVR supports the corresponding decoding.

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 sends alarms only when person or vehicle intrudes.

- New 4.0 user interface
- Remote surveillance, live view and video play on mobile phone App
- Max. decoding capability: 4×1080P@30fps. Supports adaptive decoding
- · Supports mainstream cameras of ONVIF and RTSP protocols
- H.264/.H265/Smart H.264+/Smart H.265+/MJPEG, H.265 auto switch
- 1 VGA/1 HDMI simultaneous video output by default, the maximum resolution of HDMI is 4K; and non-simultaneous video output is also supported, the maximum resolution is 1080P
- 1-channel face detection and recognition (AI by NVR); or 2-channel perimeter detection (AI by NVR); or 4-channel SMD (AI by NVR); up to 10 face databases and 5,000 face images
- All-channel AI by camera: face detection and comparison, perimeter protection and SMD
- · Security baseline 2.1

















Face Detection

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

Face Recognition

Face recognition is to figure out the captured face with target features, and compare them with the face database to identify the personnel.

Perimeter Protection

Based on the deep learning algorithm, perimeter protection provides accurate human and vehicle classification detection. It grealy reduces false alarms by smartly detecting behaviors such as tripwire and intrusion according to the detected object in restricted areas (e.g., for human or vehicle) .



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Technical Specification		Database Management	Up to 10 face databases with 5,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries®ions and state can be added	
System			to each face picture.	
Main Processor	Industrial-grade embedded processor	Database Application	Each database can be applied to video channels independently.	
Operating System	Embedded Linux	Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	
Operation Interface	Web/operating in local GUI	Alarm Linkage	Video recording, snapshot, log, preset, tour	
Video		Perimeter Protection		
Access Channel	16 channels			
Network Bandwidth	200 Mbps for access, 200 Mbps for storage and 100 Mbps for forwarding.	Performance Object classification	2 channels Human/Vehicle secondary recognition for tripwire and	
Resolution	12M/8M/5M/4M/3M/2M/720P/D1	-	intrusion	
Decoding Capability	1ch 8MP@30fps	Al Search	Search by target classification (Human, Vehicle)	
Decounty cupublicy	4ch 1080P@30fps	Alarm		
Video Output	1 VGA/1 HDMI simultaneous video output by default, the maximum resolution of HDMI is 4K	General Alarm	Motion detection, privacy masking, video loss, PIR alarm, IPC alarm	
Multi-screen Display Third Party Camera Access	1/4/8/9/16 Onvif, RTSP	Anomaly Alarm	Front-end device going offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly	
Compression	Olivi, Mar	Alarm Linkage	Video recording, snapshot, log, preset, tour	
Video	H.264/.H265/Smart H.264+/Smart H.265+/MJPEG	External Port		
Audio	PCM/G711A/G711U/G26/AAC	HDD	2 SATA ports, up to 8 TB for a single HDD. The maximum HDD capacity varies with environment temperature	
Network		USB	1 front USB 2.0 port, 1 rear USB 2.0 port	
Network Protocol	HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS	HDMI	1	
Mobile Phone Access	Android, iOS	VGA	1	
Interoperability	ONVIF (profile T/profile S/profile G), CGI, SDK	Network	1 RJ–45 port (10/100/1000 Mbps), 16 RJ–45 ports with PoE power supply (10/100 Mbps)	
Browser	Chrome, IE9 or above, Firefox	RCA Input	1	
Record Playback		RCA Output	1	
Multi-channel Playback	Up to 16 channels playback	Alarm	Alarm 4 alarm-in ports and 2 alarm-out ports	
,	Priority of record mode: Manual recording > alarm		General Parameter	
Record Mode	recording > motion detection recording > timed recording	Power Supply	100-240V, 47-63HZ, 3.5A	
Storage	Local HDD and network	Power Consumption	Total output of NVR is ≤ 10W (without HDD)Total output power of PoE is 130W, the maximum output power of a	
Backup	USB device	rewer consumption	single port is 25.5W	
Playback Function	1. Play, pause, stop, fast forward, fast backward, rewind, play by frame	Net Weight	2.63 kg (5.80 lb)	
	2. Full screen, backup (cut/file), partially enlarge, audio on/off	Gross weight	3.91 kg (8.62 lb)	
SMD Plus		Product Dimensions	$375 \text{ mm} \times 329.3 \text{ mm} \times 53 \text{ mm} (W \times L \times H)$ $14.76 \text{ inch} \times 12.96 \text{ inch} \times 2.09 \text{ inch} (W \times L \times H)$	
Performance	4 channels	Package Dimensions	148 mm × 449 mm × 421 mm (W × L × H) 5.83 inch × 17.68 inch × 16.57 inch (W × L × H)	
Al Search	Search by target classification (Human, Vehicle)	Operating Temperature	-10°C to 55°C (+14°F to +113°F)	
Face Recognition		Storage Temperature	0°C to 40°C (+32°F to +104°F)	
Performance	Max 8 face pictures/sec processing	Operating Humidity	10%–93%	
	1 channel video stream face recognition	Storage Humidity	30%–85%	
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.	Operating Altitude	3000 m (9843 ft)	
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face	Installation	Desktop mounting	
	image.	Certifications	CE/FCC	



Dimensions (mm[inch])



