8 Channel 4K Compact 1U 8PoE NVR   CODE: EAG-NVR-4K2-2AI-8BB

· Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format
· Max. decoding capability: 6 × 1080p@30 fps. Supports adaptive decoding
· 1-channel face detection and recognition (AI by NVR); 1-channel perimeter protection (AI by NVR); up to 10 face databases and 5,000 face images; 4-channel SMD Plus (AI by NVR);
· AI by camera: Face detection and recognition, perimeter protection, and SMD Plus
· Connected to the third-party network cameras
· Security baseline 2.1

Face Detection	Face Recognition	Black list Alarm	Perimeter Protection	Search by Image	IVS	SMD Plus

Function

Face Detection
Face detection identifies human faces appearing in footage. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, outputting the best face snapshot.

Face Recognition
Face Recognition technology extracts the features of captured faces and compares them with those in the face database to recognise the person's identity.

Perimeter Protection
Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables the system to perform secondary recognition for targets, improving alarm accuracy.

SMD Plus
With intelligent algorithms, Smart Motion Detection technology can categorise targets that trigger motion detection and filter motion detection alarms triggered by non-concerned targets for effective and accurate alarms.

AI Search
Supports AI search by Metadata of different targets or face images. The device compares them with recorded faces by similarity. This enables operators to quickly and easily search through multi channels.

Smart Fan
The NVR is equipped with a smart fan to achieve high cooling efficiency. It automatically turns on or turns off according to the CPU and ambient temperature. The fan is long-lasting and produces low noise, reducing maintenance costs and improving the user experience.

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Technical Specification

System

Main Processor	Industrial-grade embedded processor
Operating System	Embedded Linux
Operation Interface	Web; local GUI

AI

AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus
AI by Device	Face detection; face recognition; perimeter protection; SMD Plus

Perimeter Protection

Perimeter Performance AI by Device(Number of Channels)	1
Perimeter Performance of AI by Camera (Number of Channels)	4

Face Detection

Face Attributes	6 attibutes: Gender; age group (6); glasses; expressions (8); mouth mask; beard
Face Detection Performance of AI by Device (1080P) (Number of Channels)	1 (up to 12 face images/second)
Face Detection Performance of AI by Camera (Number of Channels)	5

Face Recognition

Face Database Capacity	Up to 10 face databases with 5,000 images
Face Recognition Performance of AI by Device (1080P) (Number of Channels)	1 (up to 4 face images/second)
Face Recognition Performance of AI by Camera (Number of Channels)	5

SMD Plus

SMD Plus by Device	4
SMD Plus by Camera	6-channel SMD Plus (AI by camera): Detects tripwire and intrustion of human or vehicle; filters false alarms caused by leaves, raindrops and change of brightness away

Video

Access Channel	8 channels
Network Bandwidth	AI off: Access: 144 Mbps; Storage: 144 Mbps; Forward: 72 Mbps AI on: Access: 72 Mbps; Storage: 72 Mbps; Forward: 36 Mbps
Resolution	12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1
Decoding Capability	AI disabled: 1-channel 12MP@30 fps; 1-channel 8MP@30 fps; 2-channel 5MP@30 fps; 3-channel 4MP@30 fps; 6-channel 1080p@30 fps AI enabled: 1-channel 8MP@30 fps; 1-channel 5MP@30 fps; 2-channel 4MP@30 fps; 4-channel 1080p@30 fps

Video Output

Video Output	1 × VGA, 1 × HDMI (simultaneous)
Multi-screen Display	1, 4, 8, 9 views
Third Party Camera Access	Onvif; RTSP;

Compression

Video	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Audio	PCM; G711A; G711U; G726

Network

Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; DDNS; Alarm Server; IP Search; P2P; Auto Registration
Mobile Phone Access	Android; iOS
Interoperability	ONVIF (profile T; profile S; profile G); CGI; SDK
Browser	Chrome; IE9 or later; Firefox

Record Playback

Multi-channel Playback	Up to 8 channels
Record Mode	Manual record; alarm recordings; motion detection recordings; scheduled recordings
Storage	Local HDD and network
Backup	USB device
Playback Function	1. Play; pause; stop; fast forward; fast backward; rewind; play by frame 2. Full screen; backup (vide clip/file); partially zom in; audio on/off

Alarm

General Alarm	Motion detection; privacy masking; video loss; PIR alarm; IPC alarm
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; cyber security exception
Intelligent Alarm	Face detection; face recognition; perimeter protection (intrusion and tripwire); IVS; SMD Plus
Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; tour

External Port

HDD	1 SATA port, up to 10 TB. The maximum HDD capacity varies with environment temperature
USB	1 × front USB2.0; 1 × back USB2.0
HDMI	1 (max. resolution: 4K)
VGA	1
Network	1 × RJ-45, 10/100/1000 Mbps
PoE	8 × PoE ports, 10/100 Mbps
RCA Input	1
RCA Output	1

General Parameter

Power Supply	53VDC, 1.8A
Power Consumption	Total output of NVR is ≤ 10W (without HDD)Total output power of PoE is 72W, the maximum output power of asingle port is 25.5W

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Dimensions (mm[inch])

260.0 [10.24]

47.6 [1.87]

232.7 [9.16]

226.6 [8.92]