

16 Channel 4K 1U 16PoE NVR

CODE: EAG-NVR-4K2-16A



- 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



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 attributes: 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 intrusion of human or vehicle; filters false alarms caused by leaves, raindrops and change of brightness away
Video	
Access Channel	16 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	1 × VGA, 1 × HDMI (simultaneous)
Multi-screen Display	1, 4, 8, 9, 16 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 16 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	2 SATA ports, 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, 10/100/1,000 Mbps
PoE	16 × PoE ports, 10/100 Mbps
RCA Input	1
RCA Output	1
Alarm Input	4
Alarm Output	2
General Parameter	
Power Supply	100-240V, 47-63HZ, 3.5A

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Dimensions (mm[inch])

