KBVISION

KX-CAi4K8216SN2P16
16 Channel 1U 16PoE 2HDDs NVR

· 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 |

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

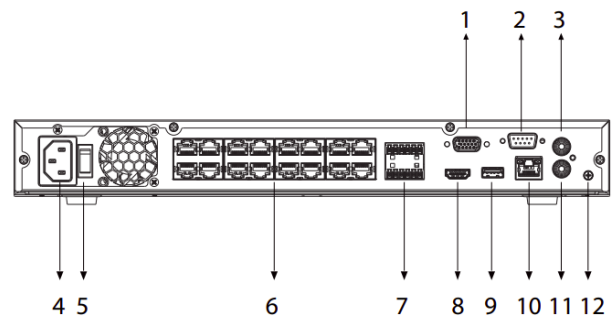| SMD Plus	
SMD Plus by Device	4
SMD Plus by Camera	6-channel SMD Plus (AI by camera): Detects tripwire and intrustion of human or vehicle; filters false alarms caused by leaves, raindrops and change of brightness away
Video	
Access Channel	16 channels
Network Bandwidth	AI off: Access: 144 Mbps; Storage: 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
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 (Supports KBVISION IP camera, DVR, NVS, etc.); 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

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Design and specifications are subject to change without notice.
Pictures in the document are for reference only, and the actual product shall prevail.

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
Power Consumption	Total output of NVR is ≤ 10W (without HDD)Total output power of PoE is 130W, the maximum output power of a single port is 25.5W
Net Weight	2.63 kg (5.80 lb)

Gross weight	3.91 kg (8.62 lb)
Product Dimensions	375 mm × 329.3 mm × 53 mm (14.76" × 12.96" × 2.09") (W × L × H)
Package Dimensions	148 mm × 449 mm × 421 mm (5.83" × 17.68" × 16.57") (W × L × H)
Operating Temperature	−10 °C to +55 °C (+14 °F to +131 °F)
Storage Temperature	0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity	10%–93%
Storage Humidity	30%–85%
Operating Altitude	3,000 m (9,842.52 ft)
Installation	Desktop

Panels

1	VGA Port	2	RS-232 Port
3	AUDIO OUT, RCA Connector	4	Power Input
5	Power Switch	6	PoE Ports
7	Alarm In/Out	8	HDMI Port
9	USB Port	10	Network Port
11	AUDIO IN, RCA Connector	12	Ground