KX-CAi4K8216N2P16

16 Channel 1U 16 PoE NVR

· 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
· Security baseline 2.1

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

Video	
Access Channel	16 channels
Network Bandwidth	200 Mbps for access, 200 Mbps for storage and 100 Mbps for forwarding
Resolution	12M/8M/5M/4M/3M/2M/720p/D1
Decoding Capability	1-channel 8MP@30fps 4-channel 1080p@30fps
Video Output	1 VGA/1 HDMI simultaneous video output by default, the maximum resolution of HDMI is 4K
Multi-screen Display	1/4/8/9/16
Third Party Camera Access	Onvif, RTSP

Compression	
Video	H.264/.H265/Smart H.264+/Smart H.265+/MJPEG
Audio	PCM/G711A/G711U/G26/AAC

Network	
Network Protocol	HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS
Mobile Phone Access	Android, iOS
Interoperability	ONVIF (profile T/profile S/profile G), CGI, SDK
Browser	Chrome, IE9 or above, Firefox

Record Playback	
Multi-channel Playback	Up to 16 channels playback

Record Mode	Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording
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 (cut/file), partially enlarge, audio on/off

SMD Plus	
Performance	4 channels
AI Search	Search by target classification (human, vehicle)

Face Recognition	
Performance	Max 8 face pictures/sec processing
	1 channel video stream face recognition
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually
AI Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image
Database Management	Up to 10 face databases with 5,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries & regions and state can be added to each face picture
Database Application	Each database can be applied to video channels independently
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.
Alarm Linkage	Video recording, snapshot, log, preset, tour

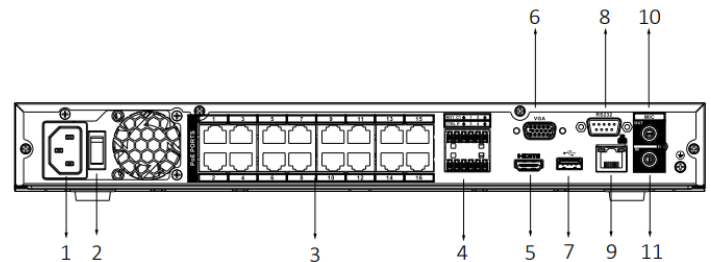| Perimeter Protection	
Performance	2 channels

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Object classification	Human/Vehicle secondary recognition for tripwire and intrusion
AI Search	Search by target classification (human, vehicle)
Alarm	
General Alarm	Motion detection, privacy masking, video loss, PIR alarm, IPC alarm
Anomaly Alarm	Front-end device going offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly
Alarm Linkage	Video recording, snapshot, log, preset, tour
External Port	
HDD	2 SATA ports, up to 8 TB for a single HDD. The maximum HDD capacity varies with environment temperature
USB	1 front USB 2.0 port, 1 rear USB 2.0 port
HDMI	1
VGA	1
Network	1 RJ–45 port (10/100/1000 Mbps), 16 RJ–45 ports with PoE power supply (10/100 Mbps)
RCA Input	1
RCA Output	1
Alarm	Alarm 4 alarm-in ports and 2 alarm-out ports
General Parameter	
Power Supply	100V-240V, 47HZ-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 (W × L × H) 14.76 inch × 12.96 inch × 2.09 inch (W × L × H)

Package Dimensions	148 mm × 449 mm × 421 mm (W × L × H) 5.83 inch × 17.68 inch × 16.57 inch (W × L × H)
Operating Temperature	-10°C to +55°C (+14°F to +113°F)
Storage Temperature	0°C to +40°C (+32°F to +104°F)
Operating Humidity	10%–93%
Storage Humidity	30%–85%
Operating Altitude	3000 m (9843 ft)
Installation	Desktop mounting
Panels	

1	Power Input Port	2	Power Switch
3	PoE Ports	4	NO1 C1/CTRL P
5	HDMI Port	6	VGA Port
7	USB Port	8	RS232 Port
9	Network Port	10	AUDIO OUT, RCA Connector
11	AUDIO IN, RCA Connector		