KX-CAi4K8216N2

16Channel 1U 2HDDs Network Video Recorder

· 16 Channel IP video access
· Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
· Up to 4 Channel perimeter protection
· Up to 2 Channel video stream face recognition/8 channel picture stream face recognition (with FD camera)
· Up to 12 face pictures/sec processing
· Up to 10 face databases with 20,000 face images in total

| Perimeter Protection | Face Detection | Face Recognition | Image Search | Heat Map | ANPR |
| Black list Alarm | People counting | False Alarm Filter | SMD Plus | | |

System

Main Processor	Multi-core embedded processor
Operating System	Embedded LINUX

Perimeter Protection

Performance	4 channel, 10 IVS rules for each channel
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion
AI Search	Search by target classification (Human, Vehicle) by targe

Face Recognition

Performance	Max 12 face pictures/sec processing
	2 channel video stream face recognition/8 channel picture stream face recognition (with FD camera)
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 20,000 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.

Audio and Video

IP Camera Input	16 Channel
Two-way Talk	1 Channel Input, 1 Channel Output, RCA

Display

Interface	1 HDMI, 1 VGA
Resolution	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Decoding Capability	2-ch@8MP (30fps), 8-ch@1080P (30fps)
Multi-screen Display	1/4/8/9/16

Recording

Bandwidth	200 Mbps (80 Mbps when AI function enabled, based on KBVISION private protocol)
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.
Record Mode	Manual, Schedule (Continuous, MD (Motion Detection), Alarm, IVS)
Record Interval	1–120 min (default: 60 min), Pre-record: 1–30 sec, Post-record: 10 –300 sec

Video Detection and Alarm

Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Scene Change
Alarm Input	4 Channel
Alarm Output	2 Channel

Playback and Backup

Sync Playback	1/4/9/16
Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to second)
Backup Mode	USB Device/Network

Third-party Support

Third-party Support	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, Onvif, Canon and more

Network

Interface	1 RJ-45 Port (10/100/1000 Mbps)
PoE	NA
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Center, IP Search (Support KBVISION IP camera, DVR, NVS, etc.), P2P
Max. User Access	128 users
Mobile App	iPhone, iPad, Android

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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.

Interoperability	ONVIF (Profile S), SDK, CGI
Storage	
Internal HDD	2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature
eSATA	NA
Auxiliary Interface	
USB	2 USB Ports (1 Rear USB 2.0, 1 Front USB 2.0)
RS232	NA
RS485	NA
Electrical	
Power Supply	Single, DC 12V, 4A
Power Consumption	NVR: <2.9W (Without HDD)

Environmental	
Operating Conditions	-10°C to +55°C (+14°F to +131°F), 86–106kpa
Storage Conditions	0°C to +40°C (+32°F to +104°F), 30–85% RH
Construction	
Dimensions	1U, 375.0 mm × 282.4 mm × 56.0 mm (14.76" × 11.12" × 2.20")
Net Weight	1.55 kg (3.4 lb) (without HDD)
Gross Weight	2.81 kg (6.2 lb) (without HDD)
Panels	