

KX-CAi4K8116N2-I2

16 Channel Compact 1U 1HDD Network Video Recorder

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



- 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



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

Compression

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

KX-CAi4K8116N2-I2

16 Channel Compact 1U 1HDD Network Video Recorder

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

Network

Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; DDNS; Alarm Server; IP Search (Supports Dahua 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
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 zoom 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

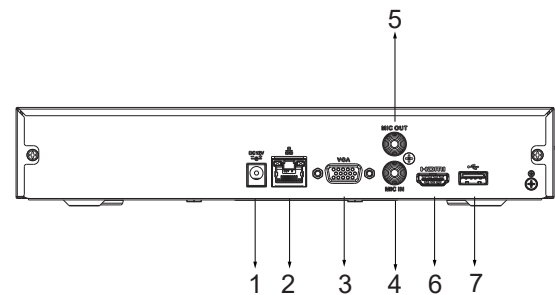
HDD	1 SATA port, up to 10 TB. The maximum HDD capacity varies with environment temperature
USB	1 × front USB2.0; 1 × back USB2.0
HDMI	1 (max. resolution: 4K)
VGA	1
Network	1 × RJ-45, 10/100/1,000 Mbps
RCA Input	1
RCA Output	1
RCA Output	1

General Parameter

Power Supply	12 V DC, 1.5 A
Power Consumption	Total output of NVR is ≤ 10 W (without HDD)
Net Weight	0.81 kg (1.79 lb)

Gross weight	1.38 kg (3.04 lb)
Product Dimensions	260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87") (W × L × H)
Package Dimensions	89 mm × 333 mm × 315 mm (3.50" × 13.11" × 12.40") (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 DC 12V Power Input | 2 Network Port |
| 3 VGA Port | 4 AUDIO IN, RCA Connector |
| 5 AUDIO OUT, RCA Connector | 6 HDMI Port |
| 7 USB Port | |