

KX-CAi4K8104N2-I2

4 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

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|--------------|--|
| AI by Camera | Face detection; face recognition; perimeter protection; SMD Plus |
| AI by Device | Face detection; face recognition; perimeter protection; SMD Plus |

Perimeter Protection

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|--|---|
| Perimeter Performance AI by Device (Number of Channels) | 1 |
| Perimeter Performance of AI by Camera (Number of Channels) | 4 |

Face Detection

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|---|--|
| 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) | 4 |

Face Recognition

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|------------------------|---|
| Face Database Capacity | Up to 10 face databases with 5,000 images |
|------------------------|---|

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|---|--------------------------------|
| 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) | 4 |
|---|---|

SMD Plus

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|--------------------|---|
| SMD Plus by Device | 4 |
| SMD Plus by Camera | 4-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

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|---------------------------|--|
| Access Channel | 4 channels |
| Network Bandwidth | 80 Mbps for access, 80 Mbps for storage and 60 Mbps for forwarding. |
| 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 views |
| Third Party Camera Access | Onvif |

Compression

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

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8 Channel Compact 1U 1HDD Network Video Recorder

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Network

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|---------------------|---|
| 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 4 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

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|-------------------|---|
| 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

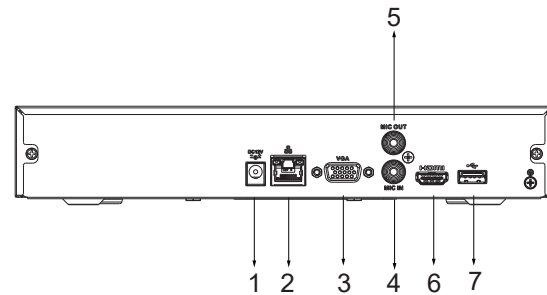
| | |
|------------|--|
| HDD | 1 SATA port, up to 10 TB. The maximum HDD capacity varies with environment temperature |
| USB | 1 × front USB2.0; 1 × back USB2.0 |
| HDMI | 1 (max. resolution: 4K) |
| VGA | 1 |
| Network | 1 × RJ-45 (10 or 100 Mbps) |
| RCA Input | 1 |
| RCA Output | 1 |

General Parameter

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|--------------------|--|
| 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 | |