

# KX-CW4K8216ZSN2

## 16 Channel Compact 1U 2HDD NVR

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



- New 4.0 user interface, Security baseline 2.1
- H.264, H.265, Smart H.264+, and Smart H.265+. H.265 auto switch
- Max. decoding capability: 8 × 1080p@30 fps. Supports adaptive decoding
- Supports mainstream cameras of ONVIF and RTSP protocols
- P2P remote surveillance, video play on mobile device
- VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
- AI by Camera: Face detection, perimeter protection, IVS, people counting, heat map, and SMD
- Supports remote configuration and management of IPC, such as setting parameters, getting information, and upgrading IPC of the same model in batches



| System                         |  |
|--------------------------------|--|
| Main Processor                 | Industrial-grade embedded processor  |
| OS                             | Embedded Linux   |
| Operation Interface            | Web/operating in local GUI   |
| Perimeter Protection by Camera |  |
| Performance                    | 8 channels   |
| AI Search                      | Search for pictures by channel, time and event type  |
| Face Detection by Camera       |  |
| Performance                    | 4 channels   |
| Face Attributes                | 6 attributes: Gender, age, glasses, expression, mouth mask, and beard                        |
| AI Search                      | Search for pictures by channel, time and face attributes                                     |
| SMD Plus by Camera             |  |
| Performance                    | 12 channels  |
| AI Search                      | Search by target classification (human, vehicle)   |
| Video                          |  |
| Access Channel                 | 16   |
| Network Bandwidth              | Access: 160 Mbps; Storage: 160 Mbps; Forward: 64 Mbps  |
| Resolution                     | 8MP; 6MP; 5MP; 4MP; 3MP; 1080p; 720p; D1   |
| Decoding Capability            | 8 × 1080p@30 fps   |
| Video Output                   | 1 × VGA output, 1 × HDMI output, supports simultaneous video sources output for VGA and HDMI |
| Multi-screen Display           | 1, 4, 8, 9, 16 views   |
| Third-party Camera Access      | ONVIF; RTSP  |
| Compression                    |  |
| Video                          | Smart H.265/H.265/Smart H.264/H.264/MJPEG  |
| Audio                          | PCM/G711A/G711U/G726/AAC   |

| Network                |  |
|------------------------|--|
| Network Protocol       | HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR; NVS; etc.); P2P; auto register |
| Mobile Phone Access    | Android; iOS   |
| Interoperability       | ONVIF (profile T/S/G); CGI; SDK  |
| Browser                | Chrome; IE9 or later; firefox  |
| Record Playback        |  |
| Multi-channel Playback | Up to 16 channels for playback   |
| Record Mode            | Manual record; alarm recording; SMD recording; smart recording   |
| Storage                | Local HDD; network   |
| Backup                 | USB storage device   |
| Playback Function      | 1. Play/pause/stop/slow/quick/backward/by frame<br>2. Full screen, backup (video clip/file), partial zoom in, and audio on/off   |
| Storage                |  |
| Disk Group             | Yes  |
| Alarm                  |  |
| General Alarm          | Motion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarm   |
| Anomaly Alarm          | Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cybersecurity exception   |
| Intelligent Alarm      | Face detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarms  |
| Alarm Linkage          | Recording, snapshot, audio, buzzer, log, preset, and email   |
| External Port          |  |
| Audio Input            | 1 × RCA input  |
| Audio Output           | 1 × RCA output   |
| HDD                    | 2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature   |

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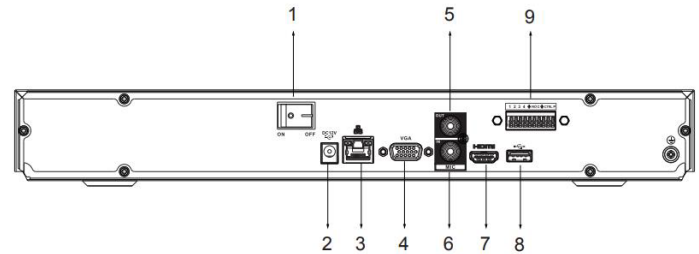
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|              |   |
|--------------|---|
| Alarm Input  | 4   |
| Alarm Output | 2   |
| USB          | 2 (1 × front USB2.0; 1 × back USB2.0)                   |
| HDMI         | 1 (supports up to 4K resolution output)                 |
| VGA          | 1   |
| Network      | 1 × RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port |

| General Parameter    |  |
|----------------------|--|
| Power Supply         | 12 V DC, 4 A   |
| Power Consumption    | < 10 W (HDD not included, idling)                                  |
| Net Weight           | 1.51 kg (3.33 lb)  |
| Gross Weight         | 2.76 kg (6.08 lb)  |
| Product Dimensions   | 375 mm × 282.4 mm × 53 mm (14.76" × 11.12" × 2.09")<br>(W × L × H) |
| Package Dimensions   | 141 mm × 433 mm × 366 mm (5.55" × 17.05" × 14.41")<br>(W × L × H)  |
| Operating Conditions | -10 °C to +55 °C (+10 °F to +131 °F)                               |
| Storage Conditions   | 0 °C to +40 °C (32 °F to 104 °F)                                   |
| Operating Humidity   | 10%~93%  |

|                    |                     |
|--------------------|---------------------|
| Storage Humidity   | 30%~85%             |
| Operating Altitude | 3000 m (9842.52 ft) |
| Installation       | Desktop mounted     |

### Panels



- |                      |                      |
|----------------------|----------------------|
| 1 Power Switch       | 2 DC 12V Power Input |
| 3 Network Port       | 4 VGA Port           |
| 5 Mic Out            | 6 Mic In             |
| 7 HDMI Port          | 8 USB Port           |
| 9 Alarm Input/Output |                      |