

KX-DAi8416H3

16 Channels Penta-brid 5M-N/1080P 1.5U 4HDDs DVR

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



- H.265+/H.265 dual-stream video compression.
- Supports 16-channel AI-Coding.
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Max 24 channels IP camera inputs, each channel up to 6MP; Max 128 Mbps incoming bandwidth.
- Up to 4 channels video stream (analog channel) Perimeter Protection.
- Up to 16 channels video stream (analog channel) SMD Plus.
- Up to 2 channels video stream (analog channel) human face recognition.
- IoT & POS functionalities.



| System | |
|---|---|
| Main Processor | Embedded Processor |
| Operating System | Embedded Linux |
| Operating Interface | Web; Local GUI |
| Perimeter Protection | |
| Perimeter Performance of AI by Camera (Number of Channels) | Advanced Model: 2 channels, 10 IVS for each channel General Model: 4 channels, 10 IVS for each channel |
| Face Detection | |
| Face Attributes | Gender; age group; glasses; expressions; face mask; beard |
| Face Detection Performance of AI by Recorder (Number of Channels) | 2 channels (up to 12 face images/s) |
| Face Recognition | |
| Face Database Capacity | Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries & regions and state can be added to each face image |
| Face Recognition Performance of AI by Recorder (Number of Channels) | 2 channels |
| SMD Plus | |
| SMD Plus by Recorder | 16 channels: Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change |
| Audio and Video | |
| Analog Camera Input | 16 BNC ports, CVI access by default, supports HDCVI/AHD/TVI/CVBS auto-detect |

| | |
|---------------------------|---|
| Camera Input | <ol style="list-style-type: none"> 1. CVI: 5 MP@25/30 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@50/60 fps; 720p@25/30 fps. 2. TVI: 5 MP@25/30 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 5 MP@25/30 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. |
| IP Camera Input | <p>Up to 24 channels of IPC access 8 IP channels by default + 16 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled.</p> |
| Encoding Capacity | <p>Main stream: All channel 5M-N@(1 fps-10 fps); 4M-N@ (1 fps-15 fps); 1080p@(1 fps-15 fps); 1080N@(1 fps-25/30 fps); 720p@(1 fps-25/30 fps); 960H@(1 fps-25/30 fps); D1@(1 fps-25/30 fps); CIF@(1 fps-25/30 fps) Sub stream: D1@(1 fps-15 fps); CIF@(1 fps-15 fps)</p> |
| Dual-stream | Yes |
| Video Frame Rate | PAL: 1 fps-25 fps NTSC: 1 fps-30 fps |
| Video Bit Rate | 32 kbps-6144 kbps |
| Audio Sampling | 8 kHz, 16 bit |
| Audio Bit Rate | 64 kbps |
| Video Output | <p>2 HDMI, 1 VGA, 1 TV Resolution VGA/HDMI2: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 when Face or IVS&SMD is selected in AI Mode. *Heterogeneous video sources output for HDMI2 is configurable.</p> |
| Multi-screen Display | When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25 |
| Third-party Camera Access | ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung |

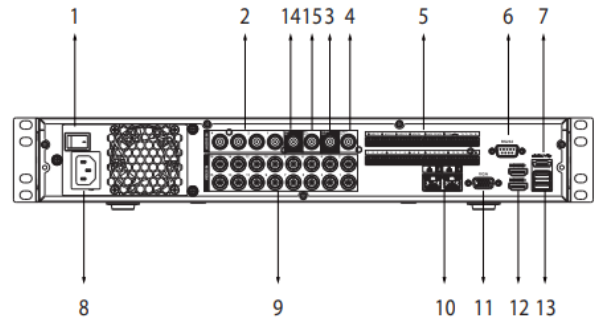
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| Compression Standard | |
|----------------------|--|
| Video Compression | AI Coding; H.265+; H.265; H.264+; H.264 |
| Audio Compression | G.711a; G.711u; PCM |
| Network | |
| Network Protocol | HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P |
| Mobile Phone Access | iOS; Android |
| Interoperability | ONVIF 21.06; CGI |
| Browser | Chrome, IE9 or later, Firefox |
| Network Mode | Multi-address mode, Fault Tolerance, Load Balance |
| Recording Playback | |
| Record Mode | General, motion detection; intelligent; alarm; POS |
| Recording Playback | 1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in AI Mode. |
| Backup Method | USB device and network |
| Playback Mode | Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection) |
| Storage | |
| Disk Group | Yes |
| Alarm | |
| General Alarm | Motion detection; video loss; tampering; local alarm |
| Anomaly Alarm | No disk; storage error; disk full; camera offline; IP conflict; MAC conflict |
| Intelligent Alarm | Face detection; face recognition; perimeter protection |
| Alarm Linkage | Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; email |
| Ports | |
| TV Output | Yes |
| Audio Input | 4-channel BNC (external) 16-channel BNC (coaxial audio) |
| Audio Output | 1-channel BNC |
| Two-way Talk | 1-channel BNC |
| Alarm Input | 16 channels |
| Alarm Output | 6 channels |
| HDD Interface | 4 SATA ports, up to 16TB, the maximum HDD capacity varies with environment temperature |
| eSATA | 1 |
| RS-232 | 1 port, for PC Communication & Keyboard |
| RS-485 | 1 port, for PTZ control |

| USB | 3 (1 front USB 2.0 port, 2 rear USB 3.0 ports) |
|-----------------------|--|
| HDMI | 2 |
| VGA | 1 |
| Network Port | 2 (10/100/1000 Mbps Ethernet port, RJ-45) |
| General | |
| Power Supply | 100–240 VAC, 50±2% Hz |
| Power Consumption | <15 W (without HDD) |
| Net Weight | 4.45 kg (9.81 lb) |
| Gross Weight | 6.75 kg (14.88 lb) |
| Product Dimensions | 1.5U, 440 mm × 420.2 mm × 76 mm (17.32" × 16.54" × 2.99") (W × D × H) |
| Packaging Dimensions | 529.0 mm × 499.0 mm × 211.0 mm 20.83" × 19.65" × 8.31" (W × D × H) |
| Operating Temperature | –10 °C to +55 °C (14 °F to +131 °F) |
| Operating Humidity | 10%–90% (RH) |
| Installation | Rack or desktop |
| Panels | |



- | | | | |
|----|--------------|----|---------------|
| 1 | Power Switch | 2 | AUDIO IN |
| 3 | AUDIO OUT | 4 | VIDEO OUT |
| 5 | Alarm In/Out | 6 | RS-232 Port |
| 7 | eSATA Port | 8 | Power Input |
| 9 | VIDEO IN | 10 | Network Ports |
| 11 | VGA Port | 12 | HDMI Ports |
| 13 | USB Ports | 14 | MIC IN |
| 15 | MIC OUT | | |