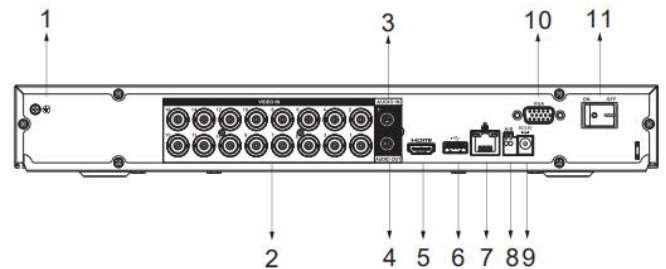# KX-DAi8216H3

16 Channel Penta-brid 5M-N/1080P 1U 2HDDs 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 Full-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 2 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
Perimeter Protection	
Perimeter Performance AI by Recorder (Number of Channels)	2 channels
Face Detection	
Face Attributes	6 attributes: Gender, age groups (6), glasses, expressions (8), face mask, beard, with up to four detection panels displayed at the same time.
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels, and a single channel can detect up to 12 faces.
Face Recognition	
Face Database Capacity	Up to 10 face databases and 10,000 pictures.
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels
SMD Plus	
SMD Plus by Recorder	Full-channel SMD Plus (AI by recorder), 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 channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured.
Camera Input	1. CVI: 5MP, 4MP, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps. 2. TVI: 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps. 3. AHD: 5MP, 4MP, 3MP, 1080p@25/30, 720p@25/30 fps.
IP Camera Input	16+8 channels, each channel up to 6MP
Encoding Capacity	All channel 5M-N (1 fps–10 fps); 4M-N/1080p (1 fps–15 fps); 1080N/720p/960H/D1/CIF (1 fps–25/30 fps)

Dual-stream	Supported (D1/CIF (1 fps–15 fps)).
Video Frame Rate	PAL: 1 fps–25 fps. NTSC: 1 fps–30 fps.
Video Bit Rate	32 Kbps–6144 Kbps Per Channel
Audio Sampling	8 KHz, 16 bit Per Channel
Audio Bit Rate	64 Kbps Per Channel
Bit Rate Type	Video stream and composite stream.
Video Output	1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 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.
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, RTSP, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung
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	iPhone, iPad, Android
Interoperability	ONVIF 16.12, CGI Conformant
Browser	Chrome, IE9 or above, Firefox
Network Mode	Single-address mode
Recording Playback	
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
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/Network

KX-DAi8216H3

16 Channel Penta-brid 5M-N/1080P 1U 2HDDs DVR

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, and local alarm
Anomaly Alarm	No disk, disk error, low space, 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	
Audio Input	1, RCA (external) 16, BNC (coaxial)
Audio Output	1, RCA
Two-way Talk	Yes (share the same audio input with the first channel)
HDD Interface	2 SATA Ports, up to 16TB for a single HDD, the maximum HDD capacity varies with environment temperature
RS-485	1 Port, for PTZ Control
USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)
HDMI	1
VGA	1
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
General	
Power Supply	DC12V, 4A

Power Consumption	Lower than 12 W
Net Weight	1.56 kg (3.44 lb)
Gross Weight	2.86 kg (6.31 lb)
Product Dimensions	1U, 375.0 mm × 289.0 mm × 53.0 mm (W × D × H) 14.76" × 11.38" × 2.09" (W × D × H)
Packaging Dimensions	433.0 mm × 141.0 mm × 366.0 mm (L × W × H) 17.05" × 5.55" × 14.41" (L× W × H)
Operating Temperature	−10 °C to +55 °C (+14 °F to +131 °F)
Operating Humidity	10%–90%
Installation	Desktop
Panels	

1	Ground	2	VIDEO IN
3	AUDIO IN, RCA Connector	4	AUDIO OUT, RCA Connector
5	HDMI Port	6	USB Port
7	Network Port	8	RS-485 Port
9	Power Input	10	VGA Port
11	Power Switch		