

# DH-XVR8208A-4KL-I

8 Channel Penta-brid 4K 1U Digital Video Recorder



Al series products adopt the most advanced Al technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua Al series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc.

The complete lineup of Dahua AI series includes network (PTZ) cameras, network video recorders, digital video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

#### System Overview

Dahua new XVR8000-4KL/4K-I series XVR delivers excellent performance and high recording quality that is ideally applicable to a wide range of industries ranging from retail to banking and real estate. Holding Dahua Technology's patented HDCVI signature technology, these new AI XVR products are featured with long distance transmission, seamless upgrading, and IoT into analog monitoring—all while maintaining perfect 4K resolution over coax.

With build-in deep learning module, XVR8000-4KL/4K-I series products adopt video image structuring technology based on deep learning algorithms, achieving high-precision human face recognition, perimeter protection, and metadata.. By applying deep learning artificial intelligence, XVR8000-4KL/4K-I allows users to focus on what matters most, improves event response time and helps make video actionable.

With its extensive portfolio of front-end and back-end products with HDCVI technology, Dahua solutions can be easily integrated into self-contained systems to satisfy the needs of both system integrators and users.

#### Functions

#### Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

#### Real Time Face Recognition

Video stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, mouth mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

- H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Supports 16 channels of IPC access, each channel up to 12MP input; Max 128 Mbps incoming bandwidth
- HDMI1 4K@60 fps output
- Supports AI by camera function
- Up to 16 channel perimeter protection
- Up to 2 channel video stream human face recognition
- Up to 2 channel metadata
- Up to 24 face pictures/sec processing
- Up to 10 face databases with 200,000 face images in total



#### Face Database Management

Configurable multiple face databases. Powerful face database management. Face database can be applied to video channels independently. Name, gender, birthday, nationality, address, ID information can be added to each face picture.

#### Common/Stranger Mode

Supports regular and stranger mode. In stranger mode, when XVR detects a strange face(not in device's face database), it can trigger alarm, buzzer, snapshot, record, etc. Similarity threshold can be set manually. This function is developed for important infrastructure sites for which access control is critical.

#### Metadata

Supports human body properties analytics, motor vehicle properties analytics, non-motor vehicle properties analytics, suitable to quickly find the corresponding target. The human body properties support top, top color, bottom, bottom color, hat, bag, gender, age, and umbrella. The motor vehicle properties support plate No., vehicle color, type, logo, plate color, ornament, calling, and seatbelt. The non-motor vehicle properties support type, vehicle color, people number, and helmet.

#### Smart Search

Supports seach by metadata of human face, human body, motor vehicle, and non-motor vehicle. Support uploading face pictures to XVR and compare them with recorded faces in XVR by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.



# Al Series | DH-XVR8208A-4KL-I

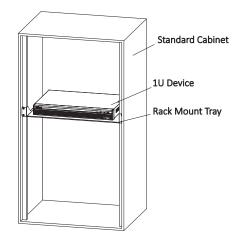
Technical Specification		Bit Rate	32 Kbps–6144 Kbps Per Channel
System			· Manual, Schedule (General, Continuous), MD (Video
Main Processor	Embedded Processor	Record Mode	detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
Operating System	Embedded LINUX	Record Interval	1 min–60 min (default: 60 min), Pre-record: 1 sec–30 sec, Post-record: 10 sec–300 sec
Perimeter Protection		Display	
Performance	4 channel, 10 IVS rules for each channel	Interface	2 HDMI, 1 VGA
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion		HDMI 1: 3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 ×
AI Search	Search by target classification (Human, Vehicle)	Resolution	1024, 1280 × 720 HDMI2/VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Face Recognition		Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16
	Max 24 face pictures/sec processing (modeling and comparing)	OSD	Camera title, Time, Video loss, Camera lock, Motion
Performance	2 channel video stream face recognition		detection, Recording
	Up to 8 channel picture stream human face recognition	Network	
Stranger Mode	Detect strangers' faces (not in device's face database).Similarity threshold can be set manually	Interface	2 RJ-45 Ports (1000 M)
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P, IP Search (Supports Dahua IP camera, DVR, NVS, etc.)
Database Management	Up to 10 face databases with 20000 face images in total. Name, gender, birthday, nationality, address, ID information can be	Max. User Access	128 users
-	added to each face picture	Smart Phone	iPhone, iPad, Android
Database Application	Each database can be applied to video channels independently	Interoperability	ONVIF 16.12, CGI Conformant
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc	Video Detection ar	nd Alarm
Metadata		Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Face	Gender, age, glasses, beard, mask	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss,
Human body	top, top color, bottom, bottom color, hat, bag, gender, age, and umbrella	Alarm input	Tampering and Diagnosis
Motor vehicle	Plate No., vehicle color, type, logo, plate color, ornament,	Relay Output	3
Non-motor Vehicle	calling, and seatbelt type, vehicle color, people number, and helmet	Playback and Back	up
		Playback	1/4/9
AI Search Video and Audio	Support search target video by metadata	Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to
Analog Camera Input	8 Channel, BNC	Scaren Wode	second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File,
HDCVI Camera	4K, 6MP, 5MP, 4MP, 1080P@25/30 fps, 720P@50/60 fps, 720P@25/30 fps	Playback Function	Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom
AHD Camera	5MP, 4MP, 3MP, 1080P@25/30 fps, 720P@25/30 fps	Backup Mode	USB Device/Network
TVI Camera	5MP, 4MP, 3MP, 1080P@25/30 fps, 720P@25/30 fps	Storage	
CVBS Camera	PAL/NTSC	Internal HDD	2 SATA Ports, up to 10 TB capacity for each disk
IP Camera Input	16 Channel, each channel up to 12MP	eSATA	N/A
Audio In/Out	4/1, RCA	Auxiliary Interface	
Two-way Talk	Mic in & reuse Audio out for Mic out, RCA	USB	3 USB Ports (1 USB 2.0 , 2 USB 3.0)
Recording		RS232	1 port, For PC communication & Keyboard
Compression	H.265+, H.265, H.264+, H.264	RS485	1 Port, for PTZ Control
Resolution	4K, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF	Electrical	
Record Rate	Main stream: 4K (1 fps–7 fps); 6MP (1 fps–10 fps); 5MP(1 fps–12 fps); 4MP/3MP (1 fps–15 fps); 4M-N/1080P/720P/960H/D1/CIF/ QCIF (1 fps–25/30 fps) Sub steram:960H (1 fps–15 fps); D1/CIF/QCIF (1 fps–25/30 fps)	Power Supply	DC 12V/4A
		Power Consumption	<20W (Without HDD)

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#### Construction

Dimensions	1U, 375 mm × 328 mm × 50 mm (14.8" × 12.9" × 2.0")			
Net Weight	2.35 kg (5.2 lb) (Without HDD)			
Gross Weight	3.2 kg (7.05 lb)			
Installation	Desktop installation			
Environmental				
Operating Conditions	-10°C to +55°C (+14°F to +131°F), 0%RH–90%RH			
Storage Conditions	-20°C to +70°C (-4°F to +158°F) , 0%RH–90%RH			
Third-party Support				
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more			
Certifications				
	FCC: Part 15 Subpart B			
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024			

### Installation on Rack Mount Tray



### **Rear Panel**

DH-XVR8208A-4KL-I

Ordering Information				
Туре	Part Number	Description		
8 Channel XVR	DH-XVR8208A-4KL-I	8 Channel Penta-brid 4K 1U Digital Video Recorder		

# 00000 0 11 12

1	VIDEO IN

- AUDIO IN, RCA Connector 2
- AUDIO OUT, RCA Connector 3
- 4 MIC IN Interface

5

- VGA Interface
- Network Interface 6
- 7 HDMI Interface
- USB Interface 8
- RS232 Interface 9
- 10 ALARM IN/OUT; RS485;
- 11 Power Input
- Power Switch 12



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## **Dimensions (mm)**

