

# DH-XVR8208A-4K-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 64 channels of IPC access, each channel up to 12MP input; Max 256Mbps incoming bandwidth
- HDMI1 4K@60 fps output
- · Supports AI by camera function
- · Up to 16 channel perimeter protection
- Up to 6 channel video stream (analog channel max. supports 4 channel) human face recognition
- Up to 4 channel metadata
- Up to 24 face pictures/sec processing
- Up to 20 face databases with 100,000 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-4K-I

Technical Specification			
System			
Main Processor	Embedded Processor		
Operating System	Embedded LINUX		
Perimeter Protection			
Performance	16 channel, 10 IVS rules for each channel		
Object classification			
Al Search	Human/Vehicle secondary recognition for tripwire and intrusion		
	Search by target classification (Human, Vehicle)		
Face Recognition			
	Max 24 face pictures /sec processing (modeling and comparing)		
Performance	Up to 6 channel video stream (analog channel max. supports 4 channel) human face recognition		
	Up to 16 channel picture stream human face recognition		
Stranger Mode	Detect strangers' faces(not in device's face database).Similarity threshold can be set manually.		
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.		
Database Management	Up to 20 face databases with 100,000 face images in total. Name, gender, birthday, nationality, address, ID information can be added to each face picture.		
Database Application	Each database can be applied to video channels independently.		
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.		
Metadata	Metadata		
Face	Gender, age, glasses, beard, mask.		
Human body	top, top color, bottom, bottom color, hat, bag, gender, age, and umbrella		
Motor vehicle	Plate No., vehicle color, type, logo, plate color, ornament, calling, and seatbelt		
Non-motor Vehicle	type, vehicle color, people number, and helmet		
AI Search	Support search target video by metadata.		
Video and Audio			
Analog Camera Input	8 Channel, BNC		
HDCVI Camera	4K, 6MP, 5MP, 4MP, 1080P@25/30 fps, 720P@50/60 fps, 720P@25/30 fps		
AHD Camera	5MP, 4MP, 3MP, 1080P@25/30fps, 720P@25/30 fps		
TVI Camera	5MP, 4MP, 3MP, 1080P@25/30fps, 720P@25/30 fps		
CVBS Camera	PAL/NTSC		
IP Camera Input	64 Channel, each channel up to 12MP		
Audio In/Out	4/1, RCA		
Two-way Talk	Mic in & reuse Audio out for Mic out, RCA		
Recording			
Compression	H.265+, H.265, H.264+, H.264		
Resolution	4K, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF		
Record Rate	Main stream: 4K (1 fps–15 fps); 6MP/5MP (1 fps–20 fps); 4MP/3MP/1080P/720P/960H/D1/CIF (1 fps–25/30 fps) Sub steram:960H (1 fps–15 fps); D1/CIF (1 fps–25/30 fps)		
Bit Rate	32 Kbps–8192 Kbps Per Channel		

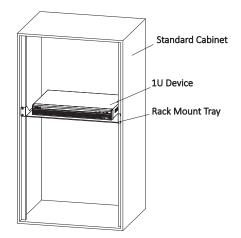
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop			
Record Interval	1 min–60 min (default: 60 min), Pre-record: 1sec–30 sec, Post-record: 10sec–300 sec			
Display				
Interface	2 HDMI, 1 VGA			
Resolution	HDMI 1: 3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI2/VGA: 1920 × 1080, 1280 × 1024, 1280 × 720			
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16/25/36			
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording			
Network				
Interface	2 RJ-45 Ports (1000 M)			
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.)			
Max. User Access	128 users			
Smart Phone	iPhone, iPad, Android			
Interoperability	ONVIF 16.12, CGI Conformant			
Video Detection and Alarm				
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips			
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis			
Alarm input	16			
Relay Output	3			
Playback and Backu	р			
Playback	1/4/9			
Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to second)			
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom			
Backup Mode	USB Device/Network			
Storage				
Internal HDD	2 SATA Ports, up to 10 TB capacity for each disk			
eSATA	N/A			
Auxiliary Interface				
USB	3 USB Ports (1 USB 2.0 , 2 USB 3.0)			
RS232	1 port, For PC communication & Keyboard			
RS485	1 Port, for PTZ Control			
Electrical				
Power Supply	DC 12V/5A			
Power Consumption	<20W (Without HDD)			

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

#### Construction

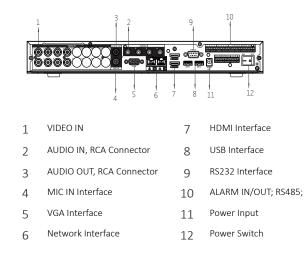
Dimensions	1U, 375 mm × 328 mm × 50 mm (14.8" × 12.9" × 2.0")			
Net Weight	2.35 kg (5.2 lb) (without HDD)			
Gross Weight	3.2 kg (7.05 lb)			
Installation	Desktop installation			
Environmental				
Operating Conditions	-10°C to +55°C (+14°F to +131°F), 0%RH–90%RH			
Storage Conditions	-20°C to +70°C (-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			
	UL: UL 60950-1			

#### Installation on Rack Mount Tray



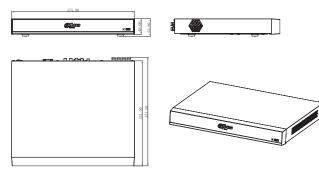
#### **Rear Panel**

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

#### **Dimensions (mm)**





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