

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 and perimeter protection. 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.

- 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@60fps output
- Up to 8 channel perimeter protection
- Up to 4 channel video stream face recognition
- Up to 24 face pictures /sec processing
- Up to 20 face databases with 100,000 face images in total













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.

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.

Smart Search

Supports seach by metadata of human face. 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.





Technical Specification		Display	
System		Interface	2 HDMI, 1 VGA
Main Processor	Embedded Processor		HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×102
Operating System	Embedded LINUX	Resolution	1280×720 HDMI2/VGA: 1920×1080, 1280×1024, 1280×720
Perimeter Protection	on	Multi-screen Display	When IP extension mode not enabled: 1/4/8/9
Performance	8 channel, 10 IVS rules for each channel		When IP extension mode enabled: 1/4/8/9/16/25/36 Camera title, Time, Video loss, Camera lock, Motion
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion	OSD	detection, Recording
AI Search	Search by target classification (Human, Vehicle)	Network	
Face Recognition		Interface	2 RJ-45 Ports (1000M)
Performance	Max 24 face pictures /sec processing (modeling and comparing)		HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP,
	4 channel video stream face recognition Detect strangers' faces(not in device's face database).Similarity	Network Function	UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)
Stranger Mode	threshold can be set manually.	Max. User Access	128 users
AI Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.	Smart Phone	iPhone, iPad, Android
	Up to 20 face databases with 100,000 face images in total.	Interoperability	ONVIF 16.12, CGI Conformant
Database Management	Name, gender, birthday, nationality, address, ID information can be added to each face picture.	Video Detection and Alarm	
Database Application	Each database can be applied to video channels independently.	Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis
Metadata		Alarm input	16
ace	Gender, age, glasses, beard, mask.	Relay Output	3
Al Search	Support search target video by metadata.	Playback and Back	cup
Video and Audio		Playback	1/4/9/16
Analog Camera Input	8 Channel, BNC	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to
HDCVI Camera	4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps		second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File,
AHD Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Playback Function	Previous File, Next Camera, Previous Camera, Full Scree Repeat, Shuffle, Backup Selection, Digital Zoom
TVI Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Backup Mode	USB Device/Network
CVBS Camera	PAL/NTSC	,	OSB Device/Network
P Camera Input	64 Channel, each channel up to 12MP	Storage	
Audio In/Out	4/1, RCA	Internal HDD	2 SATA Ports, up to 10TB capacity for each disk
Two-way Talk	Mic in & reuse Audio out for Mic out, RCA	eSATA	N/A
Recording		Auxiliary Interface	
Compression	H.265+/H.265/H.264+/H.264	USB	3 USB Ports (1 USB 2.0 , 2 USB 3.0)
Resolution	4K, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF	RS232	1 port, For PC communication & Keyboard
Record Rate	Main stream: 4K(1~15fps); 6MP/5MP(1~20fps); 4MP/3MP/1080P/720P/960H/D1/CIF (1~25/30fps) Sub steram:960H(1~15fps); D1/CIF(20Fc)06fps)	RS485 Electrical	1 Port, for PTZ Control
Bit Rate	D1/CIF(1~25/30fps) 32Kbps ~ 8192Kbps Per Channel	Power Supply	DC12V/5A
	Manual, Schedule (General, Continuous), MD (Video detection:	Power Consumption	<20W (Without HDD)
Record Mode	Motion Detection, Video Loss, Tampering), Alarm, Stop		
Record Interval	$1^{\sim}60$ min (default: 60 min), Pre-record: $1^{\sim}30$ sec, Post-record: $10^{\sim}300$ sec		



Construction

Dimensions	1U, 375mm×328mm×50mm (14.8" x 12.9" x 2.0")
Net Weight	2.35kg (5.2lb) (without HDD)
Gross Weight	3.2kg (7.05lb)
Installation	Desktop installation

Environmental

Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH

Third-party Support

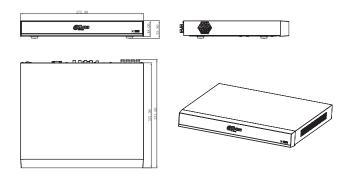
Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canc Third-party Support Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sony, Videotec, Vivotek, and more	, ,
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Certifications

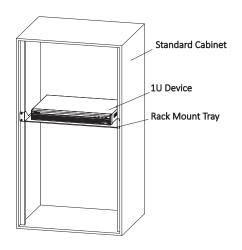
	FCC: Part 15 Subpart B
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024
	UL: UL 60950-1

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

Dimensions (mm)

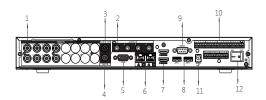


Installation on Rack Mount Tray



Rear Panel

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1	VIDEO IN	7	HDMI Interface
2	AUDIO IN, RCA Connector	8	USB Interface
3	AUDIO OUT, RCA Connector	9	RS232 Interface

4	MIC IN Interface	10	ALARM IN/OUT; RS485;
5	VGA Interface	11	Power Input
6	Network Interface	12	Power Switch





