

# DH-XVR7808S-4K-I2

# 8 Channel Penta-brid 4K 2U 8HDDs WizSense Digital Video Recorder





Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

#### **Series Overview**

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR7000-4K-I2 featuring full-channel SMD Plus to benefit customers from AI upgrade. The series are designated to reduce false-alarm rates and human surveillance costs, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

# Functions

#### **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.

\*The Face Recognition is conflicted with SMD Plus and Perimeter Protection

#### **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.

# **SMD Plus**

SMD Plus, referred to as Smart Motion Detection Plus, which is an upgrading version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithm. It analyzes person and vehicle shapes based on motion detection and send alarms only when person and vehicle intrudes.

- · H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 16 channels IP camera inputs, each channel up to 12MP; Max
   128 Mbps incoming bandwidth
- Up to 2 channels video stream (analog channel) perimeter protection
- Up to 8 channels video stream (analog channel) SMD plus
- Up to 2 channels video stream (analog channel) human face recognition
- IoT & POS functionalities



#### Al Coding

Compared with H.265, Al codec can reduce up to 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

### Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

#### HDCVI/AHD/TVI/CVBS Auto-detect

The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

## Coaxial Audio/Upgrade/Alarm

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

#### **Long Distance Transmission**

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

# AI Search

Extract and classify person and vehicles from massive video data, easy for end users to trace historical information and analyze. Person & Vehicle optional for playback to achieve quick target search, saving event retrieval time.

Technical Specificati	on	Record Interval	1 – 60 min (default: 60 min), Pre-record: 1 s–30 s, Post-	
System		Audio Compression	record: 10 s–300 s G.711A, G.711U, PCM	
Main Processor	Embedded Processor			
Operating System	Embedded LINUX	Audio Sample Rate	8 KHz, 16 bit Per Channel	
Perimeter Protection		Audio Bit Rate  Display	64 Kbps Per Channel	
Performance				
	2 channels, 10 IVS for each channel  Human/Vehicle secondary recognition for tripwire and	Interface	2 HDMI, 1 VGA, 1 TV	
Object classification  Al Search	intrusion  Search by target classification (Human, Vehicle)	Resolution	HDMI 1:3840×2160, 1920×1080, 1280×1024, 1280×720 HDMI2/VGA: 1920×1080, 1280×1024, 1280×720	
Face Recognition	search 2, target classification (namely, remote)	Multi-screen Display	When IP extension mode not enabled: 1/4/8/9	
Performance	2 channels, max 12 face pictures/sec processing	020	When IP extension mode enabled: 1/4/8/9/16  Camera title, Time, Video loss, Camera lock, Motion	
renormance	Detect strangers' faces (not in device's face database).	OSD	detection, Recording	
Stranger Mode	Similarity threshold can be set manually.	Network		
AI Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.	Interface	2 RJ-45 Ports (1000 Mbps)	
Database Management	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries&regions and state can be added	Network protocol	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.)	
	to each face picture.	Max. User Access	128 users	
Database Application	Each database can be applied to video channels independently .	Smart Phone	iPhone, iPad, Android	
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording,	Interoperability	ONVIF 16.12, CGI Conformant	
Alarm Out, PTZ Activation, etc.  SMD Plus		Video Detection and	Video Detection and Alarm	
Performance	8 channels	Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	
Al Search	Search by target classification (Human, Vehicle)	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	
Video and Audio		Alarm input	16	
Analog Camera Input	8 channels, BNC	Relay Output	6	
HDCVI Camera Input	4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	Playback and Backu	p	
AHD Camera Input	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Playback	1/4/9	
TVI Camera Input	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)	
CVBS Camera Input	PAL/NTSC	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	
IP Camera Input	8+8 channels, each channel up to 12MP	Backup Mode	USB Device/Network	
Audio In/Out	8/1, BNC	Storage	,	
Two-way Talk	1 Mic In, 1 Mic Out, BNC	Internal HDD	8 SATA Ports, up to 10TB capacity for each disk	
Recording				
Compression	Al Coding/H.265+/H.265/H.264+/H.264	eSATA	1 Port	
Resolution	4K, 6MP, 5MP, 4K-N, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF	Auxiliary Interface		
Record Rate	Main stream: 4K (1fps–15fps); 6MP(1fps–20fps); 5MP(1fps–25fps); 4K-N/4MP/3MP/1080P/720P/960H/D1/CIF (1fps– 25/30fps) Sub steram:960H(1fps–15fps);	USB	4 USB Ports (2 USB 2.0 , 2 USB 3.0)	
		RS485	1 Port, for PTZ Control	
		RS232	1 Port, for PC Communication & Keyboard	
	D1/CIF(1fps-25/30fps)	Electrical		
Bit Rate	32 Kbps-8192 Kbps Per Channel	Power Supply	AC100V-240V, 50/60Hz	
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	Power Consumption (Without HDD)	<20W	

# **Wiz Sense** | DH-XVR7808S-4K-I2

#### Construction

Dimensions	2U, 440 mm × 456 mm × 95 mm (17.32" × 17.94" × 3.73")
Net Weight (without HDD)	6.8 kg (14.9 lb)
Gross Weight	9.4 kg (20.6 lb)
Installation	Desktop/racket mounted

# Environmental

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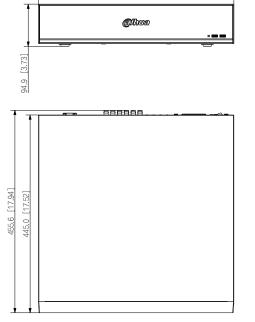
#### Certifications

	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

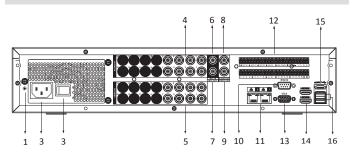
# Ordering Information Type Model Description 8 Channel WizSense XVR DH-XVR7808S-4K-I2 2U WizSense Digital Video Recorder

439.9 [17.32]

# Dimensions (mm[inch])



#### **Panels**



- 1 Ground
- 3 Power Switch
- 5 Video In
- 5 Video
- 7 Mic Out9 Video Out
- 11 Network Ports
- 13 VGA Port
- 15 eSATA Port

- 2 Power Input
- 4 Audio In
- 6 Mic In
- 8 Audio Out
- 10 RS-232 Port
- 12 Alarm Input/Output
- 14 HDMI Ports
- 16 USB Ports