

# DH-XVR5104HE-I2

4 Channel Penta-brid 5M-N/1080P Mini 1U WizSense Digital Video Recorder



H.265+/H.265 dual-stream video compression

- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 6 channels IP camera inputs, each channel up to 6MP; Max 32 Mbps incoming bandwidth
- · Up to 2 channels video stream ( analog channel ) Perimeter Protection
- Up to 4 channels video stream ( analog channel ) SMD Plus
- Up to 1 channel video stream (analog channel ) human face recognition
- IoT & POS functionalities



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.

#### System Overview

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR5000-12 featuring full-channel SMD Plus (except for 32-channel devices) 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.

\*Face Recognition takes effect when Face is selected in AI Mode.

#### 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.

\*Perimeter Protection takes effect when IVS&SMD is selected in AI Mode.

#### 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.

\*SMD Plus takes effect when SMD or IVS&SMD is selected in AI Mode.

#### AI Coding

Compared with H.265, AI 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.

#### **High Definition Camera Input**

The XVR supports up to 5MP HDCVI camera and 6MP IP camera input.

#### 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 informaton and analyze. Person & Vehicle optonal for playback to achieve quick target search, saving event retrieval tme.



## Wiz Sense | DH-XVR5104HE-I2

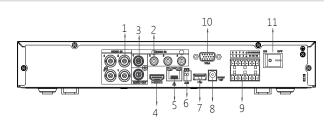
#### **Technical Specification** System Main Processor Embedded Processor Embedded LINUX **Operating System** Perimeter Protection Performance 2 channels, 10 IVS for each channel Human/Vehicle secondary recognition for tripwire and Object classification intrusion AI Search Search by target classification (Human, Vehicle) Face Recognition Max 8 face pictures/sec processing Performance 1 channel video stream face recognition, only support analog camera Detect strangers' faces (not in device's face database). Stranger Mode Similarity threshold can be set manually. Up to 8 target face images search at same time, similarity AI Search threshold can be set for each target face image. Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, Database Management cerificate No., countries&regions and state can be added to each face picture. Each database can be applied to video channels Database Application independently. Buzzer, Voice Prompts, Email, Snapshot, Recording, **Trigger Events** Alarm Out, PTZ Activation, etc. **SMD** Plus Performance 4 channels Al Search Search by target classification (Human, Vehicle) Video and Audio Analog Camera Input 4 channels, BNC 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, HDCVI Camera Input 720P@25/30fps AHD Camera Input 5MP, 4MP, 1080P@25/30, 720P@25/30fps TVI Camera Input 5MP, 4MP, 1080P@25/30, 720P@25/30fps PAL/NTSC CVBS Camera Input 4+2 channels, each channel up to 6MP IP Camera Input Audio In/Out 4/1, RCA Two-way Talk Reuse audio in/out, RCA Recording Compression AI Coding/H.265+/H.265/H.264+/H.264 5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF Resolution Main stream: All channel 5M-N (1fps-10fps); 4M-N/1080P (1fps-15fps); 1080N/720P/960H/ Record Rate D1/CIF (1fps-25/30fps) Sub stream: D1/CIF (1fps-15fps) Bit Rate 32 Kbps-6144 Kbps Per Channel Manual, Schedule (General, Continuous), MD (Video Record Mode detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1-60 min (default: 60 min), Pre-record: 1 s-30 s, Post-Record Interval record: 10 s-300 s

Audio Compression	G.711A, G.711U, PCM				
Audio Sample Rate	8 KHz, 16 bit Per Channel				
Audio Bit Rate	64 Kbps Per Channel				
Display					
Interface	1 HDMI ,1 VGA				
Resolution	1920 × 1080, 1280 × 1024, 1280 × 720				
Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6				
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording				
Network					
Interface	1 RJ-45 Port (100 MB)				
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	8				
Relay Output	3				
Playback and Backup					
Playback	1/4				
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	1 SATA Port, up to 6TB capacity				
eSATA	N/A				
Auxiliary Interface					
USB	2 USB Ports (USB 2.0)				
RS485	1 Port, for PTZ Control				
RS232	N/A				
Electrical					
Power Supply	DC 12V/1.5A				
Power Consumption (Without HDD)	<4W				
Construction					
Dimensions	Mini 1U, 325 mm × 257 mm × 55 mm (12.80'' × 10.10'' × 2.17'')				

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1.1 kg (2.5 lb)		
1.8 kg (4.0 lb)		
Desktop installation		
-10°C to +55°C (+14°F to +131°F), 0–90% RH		
-20°C to +70°C (-4°F to +158°F) , 0–90% RH		
Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more		
FCC: Part 15 Subpart B		
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		

#### Panels



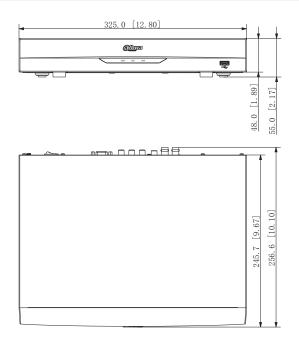
1	VIDEO IN	7	USB port
2	AUDIO IN, RCA Connector	8	DC12V Power Input
3	AUDIO OUT, RCA Connector	9	ALARM IN / OUT
4	HDMI port	10	VGA port
5	Network port	11	Power Switch

6 RS485 port

#### **Ordering Information**

Туре	Model	Description
4 Channel WizSense XVR	DH-XVR5104HE-I2	Mini 1U WizSense Digital Video Recorder

### Dimensions (mm[inch])



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