



# DH-XVR5104H-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
- Perimeter Protection and 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-I2 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, 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.

#### **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.

#### Al 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 tme.





Technical Specification		Audio Compression	AAC (only for the 1st channel), G.711A, G.711U, PCM	
System		Audio Sample Rate	8 KHz, 16 bit Per Channel	
Main Processor	Embedded Processor	Audio Bit Rate	64 Kbps Per Channel	
Operating System	Embedded LINUX	Display		
Perimeter Protection		Interface	1 HDMI ,1 VGA	
Performance	2 channels, 10 IVS for each channel	Resolution	1920 × 1080, 1280 × 1024, 1280 × 720	
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion	Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6	
Al Search	Search by target classification (Human, Vehicle)	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
Face Recognition		Network	Network	
0. (	Max 8 face pictures/sec processing	Interface	1 RJ-45 Port (100 MB)	
Performance Stranger Mode	1 channel video stream face recognition, only support analog camera  Detect strangers' faces (not in device's face database).	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 (Support	
ou anger mode	Similarity threshold can be set manually.  Up to 8 target face images search at same time, similarity	Max. User Access	Dahua IP camera, DVR, NVS, etc.)  128 users	
Al Search	threshold can be set for each target face image.	Smart Phone	iPhone, iPad, Android	
Database Management	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries&regions and state can be added to each face picture.	Interoperability	ONVIF 16.12, CGI Conformant	
		Video Detection and		
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	
SMD Plus		Alarm input	N/A	
Performance	4 channels	Relay Output	N/A	
Al Search	Search by target classification (Human, Vehicle)	Playback and Backu		
Video and Audio		Playback	1/4	
Analog Camera Input	4 channels, BNC		Time /Date, Alarm, MD and Exact Search (accurate to	
HDCVI Camera Input	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	Search Mode	second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next	
AHD Camera Input	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Playback Function	File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	
TVI Camera Input	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Backup Mode	USB Device/Network	
CVBS Camera Input	PAL/NTSC	Storage		
IP Camera Input	4+2 channels, each channel up to 6MP	Internal HDD	1 SATA Port, up to 6TB capacity	
Audio In/Out	1/1, RCA	eSATA	N/A	
Two-way Talk	Reuse audio in/out, RCA	Auxiliary Interface		
Recording		USB	2 USB Ports (USB 2.0)	
Compression	Al Coding/H.265+/H.265/H.264+/H.264	RS485	1 Port, for PTZ Control	
Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF	RS232	N/A	
Record Rate	Main stream: All channel 5M-N (1fps–10fps); 4M-N/1080P (1fps–15fps); 1080N/720P/960H/ D1/CIF (1fps–25/30fps)	Electrical		
	Sub stream: D1/CIF (1fps–15fps)	Power Supply	DC 12V/1.5A	
Bit Rate	32 Kbps-6144 Kbps Per Channel	Power Consumption (Without HDD)	<4W	
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	Construction		
Record Interval	1-60 min (default: 60 min), Pre-record: 1 s–30 s, Post-record: 10 s–300 s	Dimensions	Mini 1U, 325 mm × 257 mm × 55 mm (12.80" × 10.10" × 2.17")	

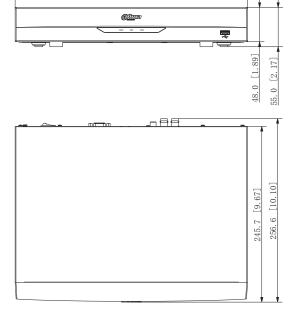
# Wiz Sense | DH-XVR5104H-I2

Net Weight (without HDD)	1.1 kg (2.5 lb)			
Gross Weight	1.8 kg (4.0 lb)			
Installation	Desktop installation			
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, Cl 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			

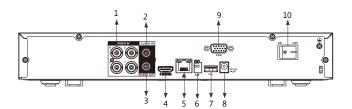
Ordering Information				
Туре	Model	Description		
4 Channel WizSense XVR	DH-XVR5104H-I2	Mini 1U WizSense Digital Video Recorder		

325.0 [12.80]

## Dimensions (mm[inch])



#### **Panels**



1 VIDEO IN 6 RS485 Interface 2 AUDIO IN, RCA Connector 7 USB Interface 3 AUDIO OUT, RCA Connector 8 DC 12V Power Input 4 VGA Interface HDMI Interface 9 5 Network Interface 10 Power Switch