

# DH-XVR5104HS-I3/T

4CH Penta-brid 5MP Value/1080P Compact 1U 1HDD WizSense Digital Video Recorder



**WizSense**

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

The XVR5000-I3/T Series offers powerful recorders that work in conjunction with 1080p HDCVI cameras, delivering smooth and crisp live videos along with an array of advanced security functions. It features two-way talk over coaxial cable, and incorporates AcuPick technology, along with other AI functions, to enhance intelligence and convenience in the surveillance field.

## Functions

### Two-way talk

Allows for seamless communication between the camera, client and recorder over coaxial cable, and offers instant voice intercom and timely audio alerts.

### Enhanced Encoding

Encoding Enhancement mode optimizes videos through real-time encoding to make them smoother and improve scene rendering.

### Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database.

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

\* Dolynk cloud version: DMSS 2.0.30 and above, Dolynk Care 2.50.20 and above.

- 4-channel two-way talk over coaxial cable allows for seamless communication between the camera, client and recorder.
- 2-channel AcuPick for analog channels which improves the efficiency of target retrieval.
- 4-channel perimeter protection for analog channels which supports tripwire and intrusion detection powered by AI.
- 2-channel face recognition for analog channels which supports face comparison.
- 4-channel SMD Plus for analog channels or 6-channel SMD by camera which allows the device to trigger accurate alarms for humans and vehicles.
- 4-channel AI Coding saves on storage and bandwidth while maintaining the details of targets in videos.
- Supports HDCVI, AHD, TVI, CVBS and IP video input.
- Supports up to 6-channel IP camera input and each channel can be up to 6 MP. The incoming bandwidth reaches 32 Mbps.
- Supports accessing Wi-Fi cameras, making it suitable for a wide range of scenes.
- Smart H.265+ and H.265 dual-stream video compression.



### Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

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

### AcuPick

This industry-leading search technology effectively utilizes back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

\*AcuPick takes effect when AcuPick is selected in AI Mode.

### SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

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

**Technical Specification**
**System**

Main Processor	Industrial-grade processor
Operating System	Embedded Linux
Operating Interface	Web; Local GUI

**AcuPick**

AcuPick Performance of AI by Recorder (1080P) (Number of Channels)	2 channels
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**Perimeter Protection**

Perimeter Performance AI by Recorder (Number of Channels)	4 channels, 10 IVS rules for each channel
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**Face Detection**

Face Attributes	6 attributes
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Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 8 face images/s each channel)
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**Face Recognition**

Face Database Capacity	Up to 10 face databases with 10,000 images.
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Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels
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**SMD**

SMD Plus by Recorder	4 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change
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SMD by Camera	6 channels
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**AI Video Quality Analytics**

AI Video Quality Analytics by Recorder	4 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white.
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**Scene Changing**

Scene Changing by Recorder	1 channel
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**Audio and Video**

Analog Camera Input	4 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect
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Camera Input	1. CVI: 5 MP@25 fps; 5 MP@20 fps; 5 MP@10/12.5 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@50/60 fps; 720p@25/30fps. 2. TVI: 5 MP(2560 × 1944)@20 fps; 5 MP(2960 × 1665)@20/25 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.
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IP Camera Input	Up to 6 channels of IPC access 2 IP channels by default + 4 channels (analog channels are converted to IP channels)
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IP Camera Input	Incoming bandwidth: 32 Mbps, recording bandwidth: 32 Mbps and outgoing bandwidth: 32 Mbps *After IP extension is enabled, Video Quality Analytics, Scene Changing, Face Recognition, Face Detection, Perimeter Protection and AcuPick cannot be used.
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Encoding Capacity	Encode Enhancement disabled : Main stream: Channels 1-2 5M-N@(1 fps-25 fps), others 5M-N@(1 fps-12 fps); Channels 1-2 4M-N/1080p@(1 fps-30 fps), others 4M-N/1080p@(1 fps-15 fps); 1080N/720p/960H/D1/CIF@(1 fps-30 fps); Sub stream: D1/CIF@(1 fps-15 fps);
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Encoding Capacity	Encode Enhancement enabled : Main stream: 4-ch 5M-N@(1 fps-25 fps);(4 channels can be transformed to 5MP@6 fps) 4-ch 4M-N/1080p@(1 fps-25 fps); 1080N/720p/960H/D1/CIF@(1 fps-30 fps); Sub stream: D1/CIF@(1 fps-15 fps); *When Encode Enhancement is enabled, Video Quality Analytics, Scene Changing, Face Recognition, Face Detection, Perimeter Protection and AcuPick cannot be used.
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Dual-stream	Yes
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Video Bit Rate	32 kbps-6144 kbps
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Audio Sampling	8 kHz, 16 bit
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Audio Bit Rate	64 kbps
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Video Output	1 HDMI, 1 VGA HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
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Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6
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Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF
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**Compression Standard**

Video Compression	AI Coding; Smart H.265+; H.265; Smart H.264+; H.264
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Audio Compression	G.711a; G.711u; PCM
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**Network**

Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)
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Mobile Phone Access	iOS; Android
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Interoperability	ONVIF 24.12 (Profile T; Profile S; Profile G); CGI; SDK
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Browser	Chrome; IE; Safari; Edge; Firefox
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**Recording Playback**

Record Mode	General; alarm; motion detection; intelligent
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Recording Playback	1/4
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Backup Method	USB device and network
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Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback
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**Alarm**

General Alarm	Motion detection; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR alarm
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Anomaly Alarm	Error (no disk; disk error; low space; low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline
Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus
Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log; preset; email

**Ports**

Audio Input	1-channel RCA 4-channel BNC (Coaxial Audio)
Audio Output	1-channel RCA
Two-way Talk	Coaxial two-way talk: 4-channel BNC Local and network user two-way talk: Shares the same audio input with the first channel
Disk Interface	1 SATA port, up to 16 TB. This limit varies depending on the environment temperature.
RS-485	1
USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
HDMI	1
VGA	1
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)

**General**

Power Supply	12 VDC, 1.5 A
Power Consumption	<5 W (without HDD)
Net Weight	0.84 kg (1.85 lb)
Gross Weight	1.41kg (3.11 lb)
Product Dimensions	260.0 mm × 237.8 mm × 47.6 mm (10.24" × 9.36" × 1.87") (W × D × H)
Packaging Dimensions	344.0 mm × 89.0 mm × 287.0 mm (13.54" × 3.50" × 11.30") (W × D × H)
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Operating Humidity	10%–90% (RH), non-condensing
Installation	Desktop
Certifications	CE-LVD: IEC 62368-1:2014 CE-EMC: EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN 55024:2010+A1:2015, EN 50130-4:2011+A1:2014

**Ordering Information**

Type	Model	Description
DIGITAL VIDEO RECORDER	DH-XVR5104HS-I3/T	4CH Penta-brid 5MP Value/1080P Compact 1U 1HDD WizSense Digital Video Recorder
Accessories (Optional)	DH-NC650	802.11AC 650M WIRELESS ADAPTER

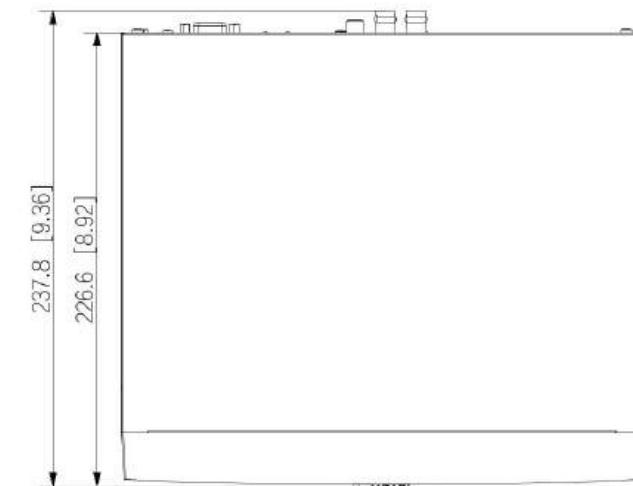
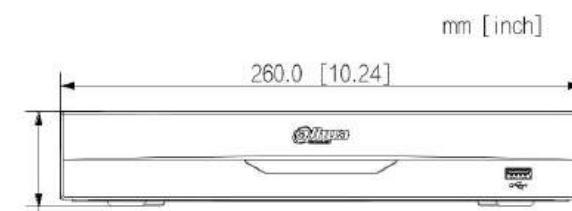
Type	Model	Description
Accessories (Optional)	DH-NC300	802.11AX 300M WIRELESS ADAPTER

**Accessories**

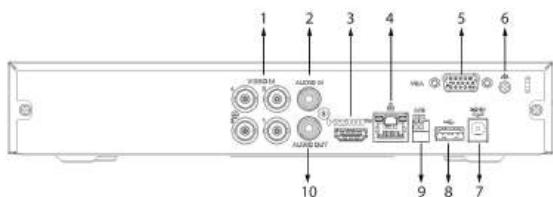
Optional:


 DH-NC300  
802.11AX 300M  
WIRELESS ADAPTER

 DH-NC650  
802.11AC 650M  
WIRELESS ADAPTER

**Dimensions (mm[inch])**


Panels



1 VIDEO IN	2 AUDIO IN, RCA Connector
3 HDMI Port	4 Network Port
5 VGA Port	6 Ground
7 Power Input	8 USB Port
9 RS-485 Port	10 AUDIO OUT, RCA Connector