

DH-XVR5104HS-I/TL

4CH Penta-brid 5MP Value/1080P Cooper 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 XVR5-I/TL Series offers simple and highly cost-effective HDCVI recorders. It provides 24/7 reliable monitoring with high-quality image performance, saving you on labor costs. In addition, it features SMD Plus and a two-way talk function, which is supported by all the channels and operates over coaxial cable. Overall, this recorder provides exceptional value for your investment.

Functions

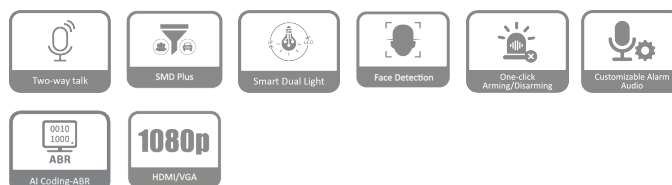
Two-way talk

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

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.

- * Dolyink cloud version: DMSS 2.0.30 and above, Dolyink Care 2.50.20 and above.
- 4-channel two-way talk over coaxial cable allows for seamless communication between the camera, client and recorder.
- 1-channel Face Detection for analog channels to accurately capture human faces and improve searching efficiency.
- 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.



Smart Dual Light

With Smart Dual Light technology, you can select Smart Illumination Mode for the system to automatically switch between IR mode and white light mode. It allows white light to be turned on when a target is detected by the SMD Plus/Perimeter Protection function of AI-enabled XVR. This significantly reduces light pollution at night. Together with other modes, including IR Mode and White Light Mode, the smart dual light technology can meet the requirements of a wide variety of scenes.

Face Detection

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

One-click Arming/Disarming

With just one click, you can enable or disable alarm linkages to show messages, send emails, output audio alarms and more, through the mobile app and platform.

Technical Specification

System

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

Face Detection

Face Detection Performance of AI by Camera (Number of Channels)	1 channel
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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
SMD by Camera	6 channels

Irregular Black Block Masking

Irregular Black Block Masking by Recorder	1 channel
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Audio and Video

Analog Camera Input	4 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect
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@25/30 fps. 2. TVI: 5 MP(2560 × 1944)@20 fps; 5 MP(2960 × 1665)@20 fps; 4 MP@25/30 fps; 3 MP(2304 × 1296)@20 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.
IP Camera Input	Up to 6 channels of IPC access 2 IP channels by default + 4 channels (analog channels are converted to IP channels) Incoming bandwidth: 32 Mbps, recording bandwidth: 32 Mbps and outgoing bandwidth: 32 Mbps
Encoding Capacity	Main stream: 5 MP Mode: 1-ch 5 MP@(1 fps–6 fps); others 5M-N@(1 fps–12 fps) 5M-N Mode: 5M-N@(1 fps–12 fps); 4M-N/1080p@(1 fps–15 fps); 1080N/720p/960H/D1/CIF@(1 fps–25/30 fps) Sub stream: D1/CIF@(1 fps–15 fps)
Dual-stream	Yes
Video Bit Rate	32 kbps–6144 kbps
Audio Sampling	8 kHz, 16 bit
Audio Bit Rate	64 kbps
Video Output	1 HDMI, 1 VGA HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 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
Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF

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.)
Mobile Phone Access	iOS; Android
Interoperability	ONVIF 25.06 (Profile T; Profile S; Profile G; Profile M); CGI; SDK
Browser	Chrome; IE; Safari; Edge; Firefox

Recording Playback

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

Alarm

General Alarm	Motion detection; HDCVI alarm; camera external alarm; network alarm; PIR alarm
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; 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.
USB	2 (2 rear USB 2.0 ports)
HDMI	1
VGA	1
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)

General

Power Supply	12 VDC, 1.5 A
Power Consumption	<4 W (without HDD)
Net Weight	0.58 kg (1.28 lb)
Gross Weight	1.13 kg (2.49 lb)
Product Dimensions	197.0 mm × 204.3 mm × 41.5 mm (7.76" × 8.04" × 1.63") (W × D × H)
Packaging Dimensions	332.0 mm × 64.0 mm × 240.0 mm (13.07" × 2.52" × 9.45") (W × D × H)
Operating Temperature	–10 °C to +45 °C (+14 °F to +113 °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-I/TL	4CH Penta-brid 5MP Value/ 1080P Cooper 1U 1HDD WizSense Digital Video Recorder
Accessories (Optional)	DH-NC650	802.11AC 650M WIRELESS ADAPTER
	DH-NC300	802.11AX 300M WIRELESS ADAPTER

Accessories

Optional:

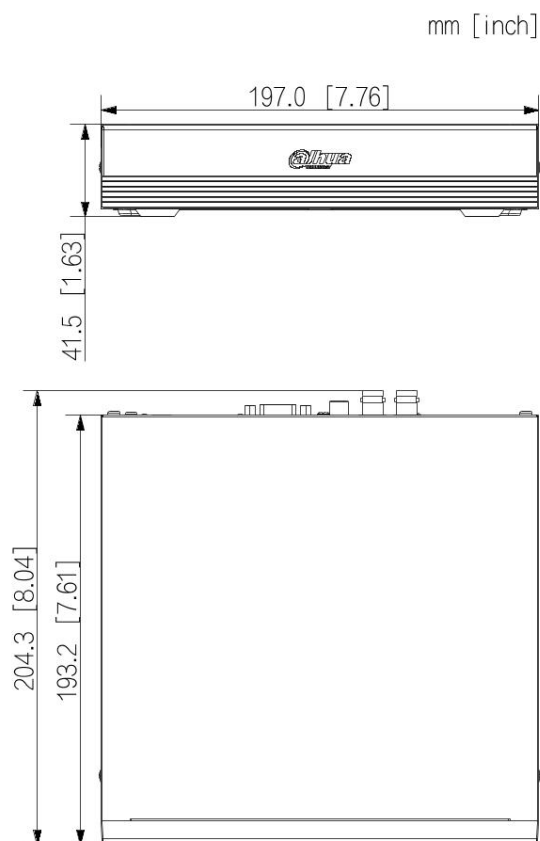


DH-NC650
802.11AC 650M
WIRELESS ADAPTER

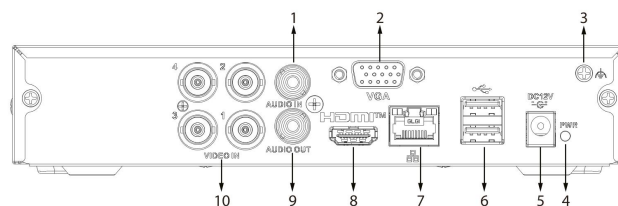


DH-NC300
802.11AX 300M
WIRELESS ADAPTER

Dimensions (mm[inch])



Panels



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