

# DH-XVR1B04H-I/T

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 Cooper-I/T 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 |
|-----------------------------------------------------------------|-----------|

### 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 |
|-------------------------------------------|-----------|

### 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.<br>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.<br>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<br>2 IP channels by default + 4 channels (analog channels are converted to IP channels)<br>Incoming bandwidth: 32 Mbps, recording bandwidth: 32 Mbps and outgoing bandwidth: 32 Mbps                                                                                                                     |
| Encoding Capacity         | Main stream:<br>5 MP Mode: 1-ch 5 MP@(1 fps–6 fps); others 5M-N@(1 fps–12 fps)<br>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)<br>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<br>HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720<br>VGA: 1920 × 1080, 1280 × 1024, 1280 × 720                                                                                                                                                                                                                                |
| Multi-screen Display      | When IP extension mode not enabled: 1/4<br>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 |
|-------------------|-----------------------------------------------------|

|                   |                     |
|-------------------|---------------------|
| Audio Compression | G.711a; G.711u; PCM |
|-------------------|---------------------|

### 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<br>4-channel BNC (Coaxial Audio)                                                                                 |
| Audio Output   | 1-channel RCA                                                                                                                  |
| Two-way Talk   | Coaxial two-way talk: 4-channel BNC<br>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<br>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-XVR1B04H-I/T | 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:

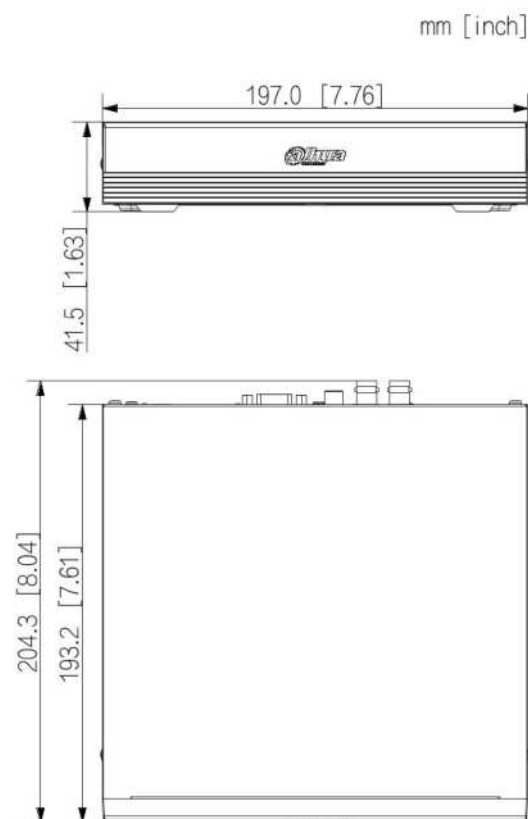


DH-NC650  
802.11AC 650M  
WIRELESS ADAPTER

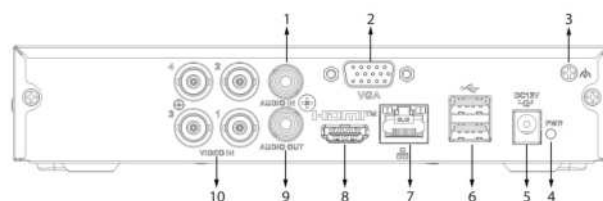


DH-NC300  
802.11AX 300M  
WIRELESS ADAPTER

## Dimensions (mm[inch])



## Panels



- |                            |                   |
|----------------------------|-------------------|
| 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       |