



DH-XVR1B16H-I/T

16CH Penta-brid 5MP Value/1080P Cooper 1U 1HDD WizSense Digital Video Recorder





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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.

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 Alenabled 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.

- * Dolynk cloud version: DMSS 2.0.30 and above, Dolynk Care 2.50.20 and above.
- 16-channel two-way talk over coaxial cable allows for seamless communication between the camera, client and recorder.
- 16-channel SMD Plus for analog channels or 24-channel SMD by camera which allows the device to trigger accurate alarms for humans and vehicles.
- 16-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 24-channel IP camera input and each channel can be up to 6 MP. The incoming bandwidth reaches 128 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.















One-click Arming/Disarming

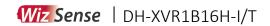
With just one click, you can enable or disable alarm linkages to show messages, send emails, output audio alarms and more, through the mobile app and platform.

Customizable Alarm Audio

Designed for your convenience, the TiOC alarm can be customized to meet your needs. It is flexible, allowing you to directly upload your customized audio through the mobile app and XVR.

AI Coding-ABR

Compared with H.265, AI coding-ABR can save 50% on storage costs, and save bit rate for complex scenes, which can prioritize image quality in dynamic scenes.



Technical Specification			Network	
System	·			HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm
Main Processor	Industrial-grade processor		Network Protocol	Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)
Operating System	Embedded Linux		Mobile Phone Access	iOS; Android
Operating Interface	Web; Local GUI		Interoperability	ONVIF 24.12 (Profile T; Profile S; Profile G); CGI; SDK
SMD			Browser	Chrome; IE; Safari; Edge; Firefox
SMD Plus by Recorder	16 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change		Recording Playback	
			Record Mode	General; alarm; motion detection
SMD by Camera	24 channels		Recording Playback	1/4/9/16
Irregular Black Block Masking			Backup Method	USB device and network
Irregular Black Block Masking by Recorder	1 channel		Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback
Audio and Video			Alarm	
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect		General Alarm	Motion detection; HDCVI alarm; camera external alarm; network alarm; PIR alarm
	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 x 1944)@20 fps; 5 MP(2960 x 1665)@20 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.		Anomaly Alarm	Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline
Camera Input			Intelligent Alarm	SMD Plus
			Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log; preset; email
IP Camera Input	Up to 24 channels of IPC access 8 IP channels by default + 16 channels (analog channels are converted to IP channels) Incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps		Ports	
			Audio Input	1-channel RCA 16-channel BNC (Coaxial Audio)
			Audio Output	1-channel RCA
Encoding Capacity	Main stream: 5 MP Mode: 4-ch 5 MP@(1 fps-6 fps); others 5M-N@(1fps-12 fps) 5M-N Mode: 5M-N@(1 fps -12 fps); 4M-N/ 1080p@(1fps-15 fps); 1080N/720p/960H/D1/CIF@(1 fps-25/30 fps) Sub stream: D1/CIF@(1 fps-15 fps)		Two-way Talk	Coaxial two-way talk: 16-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.
Dual-stream	Yes		USB	2 (2 rear USB 2.0 ports)
Video Bit Rate	32 kbps-6144 kbps		HDMI	1
Audio Sampling	8 kHz, 16 bit		VGA	1
Audio Bit Rate	64 kbps		Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
	1 HDMI, 1 VGA		General	
Video Output	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720		Power Supply	12 VDC, 2 A
	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720		Power Consumption	<12 W (without HDD)
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25 Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF		Net Weight	0.99 kg (2.18 lb)
			Gross Weight	1.57 kg (3.46 lb)
Third-party Camera Access Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF Compression Standard			Product Dimensions	260.0 mm × 231.6 mm × 47.6 mm (10.24" × 9.12" × 1.87") (W × D × H)
Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264		Packaging Dimensions	344.0 mm \times 89.0 mm \times 287.0 mm (13.54" \times 3.50" \times 11.30") (W \times D \times H)
Audio Compression	G.711a; G.711u; PCM		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					
Туре	Model	Description			
DIGITAL VIDEO RECORDER	DH-XVR1B16H-I/T	16CH Penta-brid 5MP Value/1080P Cooper 1U 1HDD WizSense Digital Video Recorder			
	DHI-SSD-V800S1TB	SSD			
	DHI-SSD-V800S512G	SSD			
Accessories (Optional)	DH-NC300	802.11AX 300M WIRELESS ADAPTER			
	DH-NC650	802.11AC 650M WIRELESS ADAPTER			
	DHI-SSD-V800S256G	SSD			

Accessories

Optional:







DHI-SSD-V800S256G SSD

DHI-SSD-V800S512G SSD

DHI-SSD-V800S1TB SSD

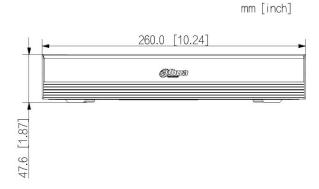


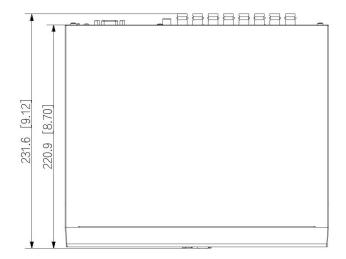


DH-NC300 802.11AX 300M WIRELESS ADAPTER

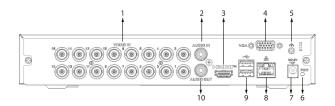
DH-NC650 802.11AC 650M WIRELESS ADAPTER

Dimensions (mm[inch])





Panels



1 VIDEO IN

2 AUDIO IN, RCA Connector

3 HDMI Port

4 VGA Port

5 Ground

6 Indicator Light

7 Power Input

8 Network Port

9 USB Ports

10 AUDIO OUT, RCA Connector