



DH-XVR1B16-I/T

16CH Penta-brid 1080N/720P 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 solutions. It provides 24/7 reliable monitoring with high-quality image performance, saving you on labor costs. It also includes a two-way talk function that is supported by all the channels and operates over coaxial cable, along with SMD Plus, offering you excellent value.

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 18-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 18-channel IP camera input and each channel can be up to 6 MP. The incoming bandwidth reaches 64 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		Recording Playback		
System		Record Mode	General; alarm; motion detection	
Main Processor	Industrial-grade processor	Recording Playback	1/4/9/16	
Operating System	Embedded Linux	Backup Method	USB device and network	
Operating Interface	Web; Local GUI	Playback Mode	Instant playback; general playback; event playback playback; smart playback	
SMD		Alarm	playback, smart playback	
SMD Plus by Recorder	16 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change	General Alarm	Motion detection; HDCVI alarm; camera external a network alarm; PIR alarm	
SMD by Camera	18 channels	Anomaly Alarm	Error (no disk, disk error, low space, low quota spanetwork disconnection; IP conflict; MAC conflict);	
Irregular Black Block Masking		Taristina, y Tadami	loss; video tampering; camera offline	
Irregular Black Block		Intelligent Alarm	SMD Plus	
Masking by Recorder	1 channel	Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log; preset; email	
Audio and Video		Ports		
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	Audio Input	1-channel RCA 16-channel BNC (Coaxial Audio)	
Camera Input	1. CVI: 1080p@25/30 fps; 720p@25/30 fps. 2. TVI: 1080p@25/30 fps; 720p@25/30 fps.	Audio Output	1-channel RCA	
IP Camera Input	3. AHD: 1080p@25/30 fps; 720p@25/30 fps. Up to 18 channels of IPC access 2 IP channel by default + 16 channels (analog channels are converted to IP channels) Incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps and outgoing bandwidth: 64 Mbps	Two-way Talk	Coaxial two-way talk: 16-channel BNC Local and network user two-way talk: Shares the audio input with the first channel	
		Disk Interface	1 SATA port, up to 16 TB. This limit varies depend the environment temperature.	
Encoding Capacity	Main stream: the 1st channel 1080N/720p@(1 fps- 25/30 fps), others 1080N/720p@(1 fps-15 fps); 960H/D1/CIF@(1 fps-25/30 fps)	USB	2 (2 rear USB 2.0 ports)	
		HDMI	1	
	Sub stream: CIF@(1 fps-7 fps)	VGA	1	
Dual-stream	Yes	Network Port	1 (10/100 Mbps Ethernet port, RJ-45)	
Video Bit Rate	32 kbps–4096 kbps	General	General	
Audio Sampling	8 kHz, 16 bit	Power Supply	12 VDC, 2 A	
Audio Bit Rate	64 kbps	Power Consumption	<10 W (without HDD)	
Video Output	1 HDMI, 1 VGA HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	Net Weight	0.96 kg (2.12 lb)	
		Gross Weight	1.54 kg (3.40 lb)	
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	Product Dimensions	260.0 mm × 231.6 mm × 47.6 mm (10.24" × 9.12" 1.87") (W × D × H)	
Third-party Camera Access Compression Standar	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF	Packaging Dimensions	344.0 mm × 89.0 mm × 287.0 mm (13.54" × 3.50 11.30") (W × D × H)	
Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264	Operating Temperature	-10 °C to +45 °C (+14 °F to +113 °F)	
Audio Compression	G.711a; G.711u; PCM	Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Network	5.7115, 5.7116, 1 GW	Operating Humidity	10%–90% (RH), non-condensing	
INCLANOLIK	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP;	Installation	Desktop	
Network Protocol	DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)	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+A11:2	
Mobile Phone Access	iOS; Android		EN 55035:2017+A11:2020, EN 55024:2010+A1:20 EN 50130-4:2011+A1:2014	
Interoperability	ONVIF 24.12 (Profile T; Profile S; Profile G); CGI; SDK			
Browser	Chrome; IE; Safari; Edge; Firefox			

Ordering Information				
Туре	Model	Description		
DIGITAL VIDEO RECORDER	DH-XVR1B16-I/T	16CH Penta-brid 1080N/ 720P Cooper 1U 1HDD WizSense Digital Video Recorder		
	DHI-SSD-V800S256G	SSD		
	DH-NC650	802.11AC 650M WIRELESS ADAPTER		
Accessories (Optional)	DHI-SSD-V800S1TB	SSD		
	DHI-SSD-V800S512G	SSD		
	DH-NC300	802.11AX 300M WIRELESS ADAPTER		

Accessories

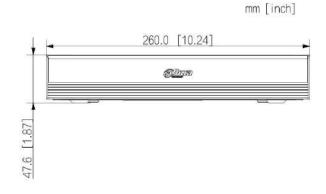
WIRELESS ADAPTER

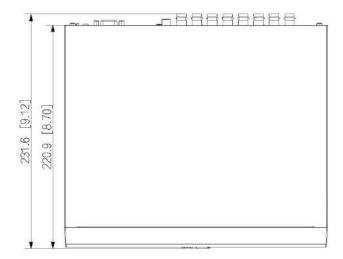
Optional:



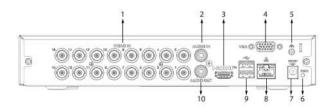
WIRELESS ADAPTER

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