

DH-XVR1B16-I

16CH Penta-brid 1080N/720P Compact 1U 1HDD WizSense Digital Video Recorder



Wiz Sense

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

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, Cooper-I Series featuring max.full-channel SMD Plus to benefit customers from AI upgrade (The number of channels differs depending on the model. Please refer to the specifications below for information on the number of channels.). This series has been developed to reduce false-alarm rates and the cost of human surveillance, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

Functions

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.

- * The information below only applies to hardware version 2.0 of the product.
- 8-channel SMD Plus for analog channels 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.
- 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.

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.

Al Coding

Compared with H.265/H.264, AI coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.

Audio over Coax

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

Wiz Sense | DH-XVR1B16-I

Technical Specification System Main Processor Industrial-grade processor Operating System Embedded Linux Operating Interface Web; Local GUI SMD Plus 8 channels: Secondary filtering for human and vehicle, SMD Plus by Recorder reducing false alarms caused by leaves, rain and lighting condition change Audio and Video 16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-Analog Camera Input detect 1. CVI: 1080p@25/30 fps; 720p@25/30 fps. Camera Input 2. TVI: 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 1080p@25/30 fps; 720p@25/30 fps. Up to 18 channels of IPC access 2 IP channels by default + 16 channels (analog channels are converted to IP channels) IP Camera Input Incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps and outgoing bandwidth: 64 Mbps *After IP extension is enabled, the AI Function (SMD) will be disabled. Main stream: the 1st channel 1080N/720p@(1 fps-25/30 fps), others 1080N/720p@(1 fps-15 fps); **Encoding Capacity** 960H/D1/CIF@(1 fps-25/30 fps) Sub stream: CIF@(1 fps-7 fps) Dual-stream Yes 32 kbps-4096 kbps Video Bit Rate Audio Sampling 8 kHz, 16 bit Audio Bit Rate 64 kbps 1 HDMI, 1 VGA HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 Video Output VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 When IP extension mode not enabled: 1/4/8/9/16 Multi-screen Display When IP extension mode enabled: 1/4/8/9/16/25 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 HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Network Protocol Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.) Mobile Phone Access iOS; Android ONVIF 22.12 (Profile T; Profile S; Profile G); CGI; SDK Interoperability Browser Chrome; IE; Safari; Edge; Firefox **Recording Playback**

General; alarm; motion detection

1/4/9/16

Record Mode Recording Playback

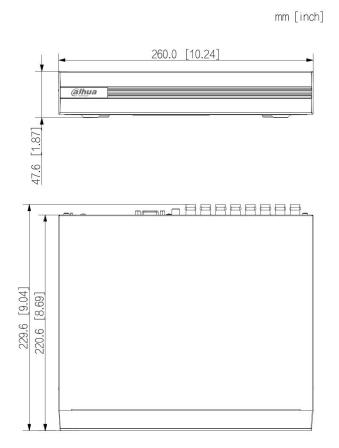
Playback Mode Alarm General Alarm	Instant playback; general playback; event playback; tag playback; smart playback Motion detection; HDCVI alarm; camera external alarm; network alarm; PIR alarm Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline SMD Plus		
	network alarm; PIR alarm Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline		
General Alarm	network alarm; PIR alarm Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline		
	network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline		
Anomaly Alarm			
Intelligent Alarm	5100 1103		
Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log; preset; email		
Ports			
Audio Input	1-channel RCA 16-channel BNC (Coaxial Audio)		
Audio Output	1-channel RCA		
Two-way Talk	Yes (share 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, 2 A		
Power Consumption	<10 W (without HDD)		
Net Weight	0.89 kg (1.96 lb)		
Gross Weight	1.42 kg (3.13 lb)		
Product Dimensions	260.0 mm × 229.6 mm × 47.6 mm (10.24" × 9.04" × 1.87") (W × D × H)		
Packaging Dimensions	333.0 mm × 89.0 mm × 315.0 mm (13.11" × 3.50" × 12.40") (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 FCC: 47 CFR Part 15, Subpart B		

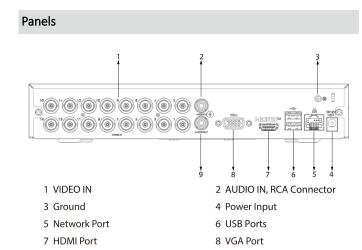
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Ordering Information

Туре	Part Number	Description
DIGITAL VIDEO RECORDER	DH-XVR1B16-I	16CH Penta-brid 1080N/ 720P Compact 1U 1HDD WizSense Digital Video Recorder

Dimensions (mm[inch])





9 AUDIO OUT, RCA Connector