



DH-XVR1B16H-I

16 Channels Penta-brid 5M-N/1080P Compact 1U 1HDD WizSense Digital Video Recorder





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 Al 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.

Smart Dual Illuminators

With Smart Dual Illuminators 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 illumination 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.

- · H.265+/H.265 dual-stream video compression
- · Supports Full-channel AI Coding
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 24 channels IP camera inputs, each channel up to 6MP; Max 128
 Mbps incoming bandwidth
- · Long transmission distance over coax cable
- Up to 16 channels video stream (analog channel) SMD Plus
- POS functionalities

















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

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

Smart H.265+

Smart H.265+ Codec reduces bit rate and storage requirements by up to 90%, outranking standard H.264 video compression and eliminating the need to invest in a new camera.

Long-distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700 m for 4K/4MP, 800 m for 1080p and 1200 m for 720p.

Audio over Coax

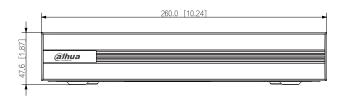
The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

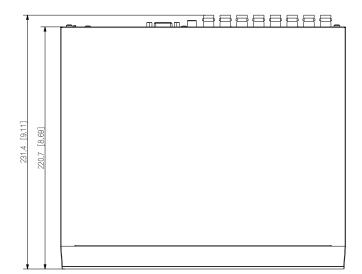
Technical Specification		Recording Playback	
System		Record Mode	General, motion detection; intelligent; alarm; POS
Main Processor	Embedded processor	Recording Playback	1/4/9/16
Operating System	Embedded Linux	Backup Method	USB Device/Network
Operating Interface	Web; Local GUI	Playback Mode	Instant playback, general playback, event playback, tapplayback, smart playback
SMD Plus		Alarm	payotokyomarepayotok
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change	General Alarm	Motion detection, Video Loss, tampering
			No disk, disk error, low space, offline, ip conflict, MAC
Audio and Video		Anomaly Alarm	conflict
Analog Camera Input	16 channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured.	Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email
Camera Input	1. CVI: 5MP, 4MP, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps. 2. TVI: 5MP, 4MP, 1080p@25/30 fps, 720p@25/30 fps. 3. AHD: 5MP, 4MP, 1080p@25/30 fps, 720p@25/30 fps.	Ports	
		Audio Input	1-channel RCA (external) 16-channel BNC (coaxial audio)
IP Camera Input	Up to 24 channels of IPC access 16 IP channels by default + 8 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function SMD will be disabled.	Audio Output	1-channel RCA
		Two-way Talk	Yes (share the same audio input with the first channel
		HDD Interface	1 SATA Port,up to 16TB, the maximum HDD capacity varies with environment temperature
		USB	2 (USB 2.0 port)
Encoding Capacity	Main stream: All channel 5M-N (1 fps–10 fps); 4M-N/1080p (1 fps–15 fps); 1080N/720p/960H/D1/CIF (1 fps–25/30 fps)	HDMI	1
	Sub stream: D1/CIF@(1fps=25/30fps)	VGA	1
Dual-stream	Yes	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
Video Frame Rate	PAL: 1 fps–25 fps. NTSC: 1 fps–30 fps.	General	
Video Bit Rate	32 Kbps-6144 Kbps Per Channel	Power Supply	DC12V, 2A
Audio Sampling	8 KHz, 16 bit	Power Consumption	Lower than 12 W
Audio Bit Rate	64 Kbps	Net Weight	0.93 kg (2.05 lb)
Video Output	1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	Gross Weight	1.43 kg (3.16 lb)
		Product Dimensions	Compact 1U, 260.0 mm × 231.4 mm × 47.6 mm (10.24 9.11" × 1.87") (W × D × H)
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	Packaging Dimensions	333.0 mm × 89.0 mm × 315.0 mm13.11" × 3.50" × 12.6 (W × D × H)
Third-party Camera Access	Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung	Operating Temperature	-10 °C to +45 °C (+14 °F to +113 °F)
Compression Standard		Operating Humidity	10%–90%
Video Compression	Al Coding/H.265+/H.265/H.264+/H.264	Installation	Desktop
Audio Compression	G.711A/G.711u/PCM		CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN
Network		Certifications	50130, EN 55024 FCC: Part 15 Subpart B
Network Protocol	HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P		
Mobile Phone Access	iPhone, iPad, Android		
Interoperability	ONVIF 21.06, CGI		
Browser	Chrome, IE9 or above, Firefox		
Network Mode	Single-address mode		



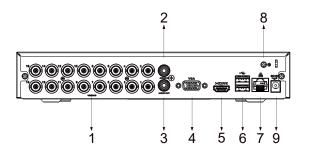
Ordering Information				
Туре	Model	Description		
16 Channels WizSense XVR	DH-XVR1B16H-I	Compact 1U DIGITAL VIDEO RECORDER		

Dimensions (mm[inch])





Panels



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