



DH-XVR1B16H-I

16CH Penta-brid 5MP Value/1080P Compact 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

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.

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.

- 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.
- · Smart H.265+ and H.265 dual-stream video compression.







Irregular Black Block Masking

Dahua's black block masking function supports the use of irregular shapes for masking, ensuring privacy in public and private locations.



Technical Specification System Main Processor Industrial-grade processor Derating System Embedded Linux Operating Interface Web; Local GUI SMD Plus Mobile Phone Access Interoperability Mobile Phone Access Interoperability Movif Palarm; Profile S; Profile G); CGI; SDK Browser Chrome; IE; Safari; Edge; Firefox Recording Playback Record Mode General; alarm; motion detection Recording Playback Mobile Backup Method Instant playback; general playback; sevent playback; tag playback; smart playback Audio and Video
Main Processor Industrial-grade processor Derating System Embedded Linux Mobile Phone Access IOS; Android Operating Interface Web; Local GUI Interoperability Movif 23.12 (Profile T; Profile S; Profile G); CGI; SDK SMD Plus Browser Chrome; IE; Safari; Edge; Firefox Recording Playback Record Mode General; alarm; motion detection Recording Playback Recording Playback Recording Playback Recording Playback Irregular Black Block Masking Irregular Black Block Masking by Recorder Audio and Video Network Protocol Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.) Mobile Phone Access IOS; Android ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; SDK Recording Playback Recording Playback Record Mode General; alarm; motion detection USB device and network Playback Mode Instant playback; general playback; tag playback; smart playback; and playback; smart playback; and playback; smart playback and playback; smart playback; smart playback; smart playback and playback and playback; smart playback and playback and playback and playback; smart playback and playback and playback and playback and playback; smart playback and playback
Operating Interface Web; Local GUI Interoperability ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; SDK Browser Chrome; IE; Safari; Edge; Firefox Recording Playback Record Mode General; alarm; motion detection Recording Playback Irregular Black Block Masking Irregular Black Block Masking Irregular Black Block Masking Audio and Video Meb; Local GUI Interoperability Browser Chrome; IE; Safari; Edge; Firefox Recording Playback Recording Playback Interoperability ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; SDK Recording Playback Recording Playback Backup Method USB device and network Instant playback; general playback; tag playback; smart playback; and playback; smart playback; tag playback; smart playback Alarm
SMD Plus by Recorder SMD Plus by Recorder 16 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change SMD Plus by Camera 24 channels Irregular Black Block Masking Irregular Black Block Masking Irregular Black Block Masking Audio and Video Browser Chrome; IE; Safari; Edge; Firefox Recording Playback Record Mode General; alarm; motion detection 1/4/9/16 Backup Method USB device and network Instant playback; general playback; tag playback; smart playback; smart playback Alarm Alarm
SMD Plus by Recorder 16 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change SMD Plus by Camera 24 channels Irregular Black Block Masking Irregular Black Block Masking Irregular Black Block Masking Audio and Video Playback Mode Alarm Recording Playback Record Mode Recording Playback Backup Method USB device and network Instant playback; general playback; tag playback; smart playback; smart playback Alarm
Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change SMD Plus by Camera 24 channels Irregular Black Block Masking Irregular Black Block Masking Irregular Black Block Masking Audio and Video Secondary filtering for human and motor vehicle, Recording Playback Record Mode General; alarm; motion detection 1/4/9/16 Backup Method USB device and network Playback Mode playback; general playback; tag playback; smart playback Alarm
reducing false alarms caused by leaves, rain and lighting condition change SMD Plus by Camera 24 channels Irregular Black Block Masking Irregular Black Block Masking Irregular Black Block Masking Audio and Video Record Mode Record Mode Record Mode Record Mode Record Mode Irregular Playback Playback Playback Mode Playback Mode Alarm Alarm
Irregular Black Block Masking Irregular Black Block Masking Irregular Black Block Masking Irregular Black Block Masking by Recorder Audio and Video Backup Method USB device and network Instant playback; general playback; tag playback; smart playback; smart playback Alarm
Irregular Black Block Masking Irregular Black Block Masking by Recorder Audio and Video Instant playback; general playback; event playback; tag playback; smart playback Alarm
Irregular Black Block Masking by Recorder Audio and Video Instant playback; general playback; tag playback; smart playback Alarm
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
Error (no disk, disk error, low space, low quota space; 1. CVI: 5 MP@25 fps; 5 MP@20 fps; 5 MP@10/12.5 fps; Anomaly Alarm etwork disconnection; IP conflict; MAC conflict); vide does; 1080p@25/30 fps; 720p@50/60 fps; loss; video tampering; camera offline
720p@25/30fps. Camera Input 2. TVI: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 Intelligent Alarm SMD Plus
fps; 720p@25/30 fps. 3. AHD: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. Alarm Linkage output; audio; buzzer; log; preset; email
Up to 24 channels of IPC access Ports
8 IP channels by default + 16 channels (analog channels are converted to IP channels) Audio Input IP Camera Input Audio Input 1-channel RCA 1-channel BNC (Coaxial Audio)
128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing *After IP channels are added beyond the existing
channels, the AI Function SMD will be disabled. Two-way Talk Yes (share the same audio input with the first channel)
Main stream: 5 MP Mode: 4-ch 5 MP@(1 fps-6 fps); others 5M-N@(1 Disk Interface 1 SATA port, up to 16 TB. This limit varies depending of the environment temperature.
fps-12 fps) Encoding Capacity 5M-N Mode: 5M-N@(1 fps -12 fps); 4M-N/1080p@(1 USB 2 (2 rear USB 2.0 ports)
fps-15 fps); 1080N/720p/960H/D1/CIF@(1 fps-25/30 fps) HDMI 1
Sub stream: D1/CIF@(1 fps-15 fps) VGA 1
Dual-stream Yes Network Port 1 (10/100/1000 Mbps Ethernet port, RJ-45)
Video Bit Rate 32 kbps-6144 kbps General
Audio Sampling 8 kHz, 16 bit Power Supply 12 VDC, 2 A
Audio Bit Rate 64 kbps Power Consumption <12 W(without HDD)
1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Net Weight 0.93 kg (2.05 lb)
Video Output HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × Gross Weight 1.43 kg (3.16 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 × 231.4 mm × 47.6 mm (10.24" × 9.11" × 1.87") (W × D × H)
Third-party Camera Access Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF Packaging Dimensions 333.0 mm × 89.0 mm × 315.0 mm (13.11" × 3.50" × 12.40") (W × D × H)
Compression Standard Operating Temperature -10 °C to +45 °C (+14 °F to +113 °F)
Video Compression Al Coding; Smart H.265+; H.265; Smart H.264+; H.264 Storage Temperature −20 °C to +60 °C (−4 °F to +140 °F)
Audio Compression G.711a; G.711u; PCM Operating Humidity 10%–90% (RH), non-condensing



Installation	Desktop
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B

Ordering Information			
Туре	Model	Description	
DIGITAL VIDEO RECORDER	DH-XVR1B16H-I	16CH Penta-brid 5MP Value/1080P Compact 1U 1HDD WizSense Digital Video Recorder	

Accessories

Optional:

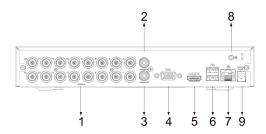


260.0 [10.24]

Dimensions (mm[inch])

2007 (Sett)

Panels



- 1 VIDEO IN 2 AUDIO IN, RCA Connector
- 3 AUDIO OUT, RCA Connector 4 VGA Port
- 5 HDMI Port6 USB Ports7 Network Port8 Ground
- 9 Power Input