



DH-XVR4116HS-I

16CH Penta-brid 1080N/720P 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, XVR4000-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, Al coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.

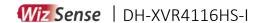
Audio over Coax

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



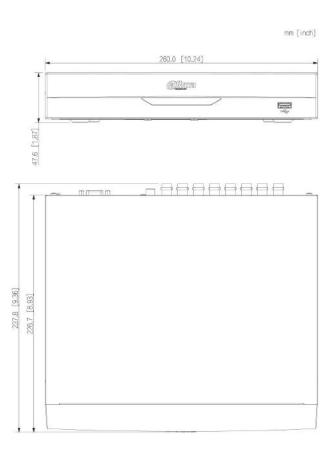
Technical Specification			
System			
Main Processor	Industrial-grade processor		
Operating System	Embedded Linux		
Operating Interface	Web; Local GUI		
SMD Plus			
SMD Plus by Recorder	8 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change		
Audio and Video			
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect		
Camera Input	1. CVI: 1080p@25/30 fps; 720p@25/30 fps. 2. TVI: 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 1080p@25/30 fps; 720p@25/30 fps.		
IP Camera Input	Up to 18 channels of IPC access 2 IP channels by default + 16 channels (analog channels are converted to IP channels) 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.		
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) Sub stream: CIF@(1 fps-7 fps)		
Dual-stream	Yes		
Video Bit Rate	32 kbps-4096 kbps		
Audio Sampling	8 kHz, 16 bit		
Audio Bit Rate	64 kbps		
Video Output	1 HDMI, 1 VGA HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720		
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		
Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF		
Compression Standard			
Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264		
Audio Compression	G.711a; G.711u; PCM		
Network			
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)		
Mobile Phone Access	iOS; Android		
Interoperability	ONVIF 22.12 (Profile T; Profile S; Profile G); CGI; SDK		
Browser	Chrome; IE; Safari; Edge; Firefox		
Recording Playback			
Record Mode	General; alarm; motion detection		
Recording Playback	1/4/9/16		

Backup Method	USB device and network	
Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback	
Alarm		
General Alarm	Motion detection; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR alarm	
Anomaly Alarm	Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline	
Intelligent Alarm	SMD Plus	
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	$1\mbox{SATA}$ port, up to 16 TB. This limit varies depending on the environment temperature.	
RS-485	1	
USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)	
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)	
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Net Weight	1.04 kg (3.00 lb)	
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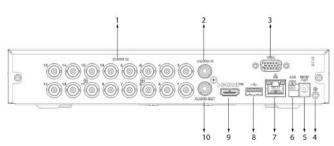


Ordering Information			
Туре	Part Number	Description	
DIGITAL VIDEO RECORDER	DH-XVR4116HS-I	16CH Penta-brid 1080N/ 720P Compact 1U 1HDD WizSense Digital Video Recorder	

Dimensions (mm[inch])



Panels



- 1 VIDEO IN
- 3 VGA Port
- 5 Power Input
- 7 Network Port
- 9 HDMI Port

- 2 AUDIO IN, RCA Connector
- 4 Ground
- 6 RS-485 Port
- 8 USB Port
- 10 AUDIO OUT, RCA Connector