



DH-XVR5116HS-I3

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, XVR5000-I3 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

Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database.

*Face Recognition takes effect when Face is selected in AI Mode.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

*Perimeter Protection takes effect when IVS&SMD is selected in AI Mode.

- 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.
- 4-channel perimeter protection for analog channels which supports tripwire and intrusion detection powered by AI.
- 2-channel face recognition for analog channels which supports face comparison.
- 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.
- · IoT and POS capabilities.











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.

*SMD Plus takes effect when SMD or IVS&SMD is selected in AI Mode.

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.

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 Specificatio	n				
System			128 Mbps and *After IP exter		
Main Processor	Industrial-grade processor		Scene Changing, Face Recognition, Face Detection, SMD, Perimeter Protection cannot be used.		
Operating System	Embedded Linux		Main stream:		
Operating Interface	Web; Local GUI		5 MP Mode: 4-c fps-12 fps)		
Perimeter Protection		Encoding Capacity	5M-N Mode: 5M-N@(1 fps -12 fps); 4M-N/10		
Davimantas Davidasmans Al	Advanced Mode: 2 channels, 10 IVS rules for each		fps-15 fps); 108 fps)		
Perimeter Performance Al by Recorder (Number of Channels)	channel General Mode: 4 channels, 10 IVS rules for each channel		Sub stream: D1/		
		Dual-stream	Yes		
Face Detection		Video Bit Rate	32 kbps-6144 kb		
Face Attributes	6 attributes	Audio Sampling	8 kHz, 16 bit		
Face Detection		Audio Bit Rate	64 kbps		
Performance of AI by Recorder (Number of Channels)	2 channels(up to 12 face images/s each channel)		1 HDMI, 1 VGA VGA: 1920 × 1080 HDMI: 3840 × 216		
Face Recognition		Video Output	720 It changes to 192		
Face Database Capacity	Up to 10 face databases with 10,000 images.		when Face or IVS		
Face Recognition Performance of AI by		Multi-screen Display	When IP extensio		
Recorder (Number of Channels)	2 channels	Third-party Camera Access	Panasonic; Sony;		
SMD Plus		Compression Standar	Compression Standard		
SIVID PIUS	16 channels:	Video Compression	Al Coding; Smart		
SMD Plus by Recorder	Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Audio Compression	G.711a; G.711u;		
		Network			
SMD Plus by Camera	24 channels		HTTP; HTTPS; T DNS; SMTP; UF		
Al Video Quality Anal	ytics	Network Protocol	Server; P2P; Aut		
Al Video Quality Analytics	16 channels: Supports detecting brightness levels, color		camera, DVR, NV		
by Recorder	cast, defocus, overexposure, contrast levels, black and white	Mobile Phone Access	iOS; Android		
Scene Changing		Interoperability	ONVIF 23.12 (Prof		
Scene Changing by	1 shannel	Browser	Chrome; IE; Safari;		
Recorder 1 channel		Recording Playback			
Irregular Black Block I	Masking	Record Mode	General; alarm; mo		
Irregular Black Block Masking by Recorder	1 channel	Recording Playback	1/4/9/16 It changes to 1/4/9 selected in Al Mode		
Audio and Video		Backup Method	USB device and net		
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect	Playback Mode	Instant playback; ger playback; smart play		
Camera Input	1. CVI: 5 MP@25 fps; 5 MP@20 fps; 5 MP@10/12.5 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@50/60 fps;	Alarm			
	720p@25/30fps, 1030p@25/30 fps, 720p@35/00 fps, 720p@35/30fps. 2. TVI: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.	General Alarm	Motion detection; network alarm; PIR		
	3. AHD: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.	Anomaly Alarm	Error (no disk, disk network disconnect loss; video tamperii		
IP Camera Input	Up to 24 channels of IPC access 8 IP channels by default + 16 channels (analog channels are converted to IP channels)	Intelligent Alarm	Face detection; face		

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 $16\mbox{TB}.$ This limit varies depending on the environment temperature.	
RS-485	1	
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)	
HDMI	1	
VGA	1	
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
General		
Power Supply	12 VDC, 2 A	
Power Consumption	<12 W(without HDD)	
Net Weight	1.17 kg (2.58 lb)	
Gross Weight	1.57 kg (3.46 lb)	
Product Dimensions	260.0 mm \times 237.8 mm \times 47.6 mm (10.24" \times 9.36" \times 1.87") (W \times D \times H)	
Packaging Dimensions	333.0 mm \times 89.0 mm \times 315.0 mm (13.11" \times 3.50" \times 12.40") (W \times D \times H)	
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)	
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Operating Humidity	10%–90% (RH), non-condensing	
Installation	Desktop	
	CE: CE-LVD: EN 60950-1/IEC 60950-1	

Ordering Information					
Туре	Model	Description			
DIGITAL VIDEO RECORDER	DH-XVR5116HS-I3	16CH Penta-brid 5MP Value/1080P Compact 1U 1HDD WizSense Digital Video Recorder			

50130, EN 55024 FCC: Part 15 Subpart B

Certifications

CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN

Accessories

Optional:





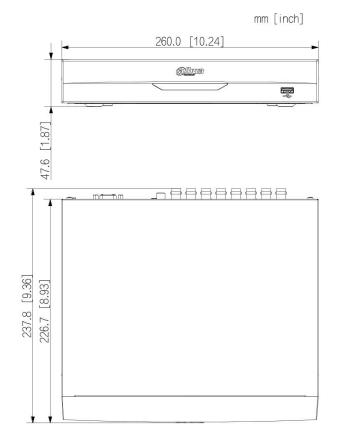


DHI-SSD-V800S256G SSD DHI-SSD-V800S512G SSD DHI-SSD-V800S1TB

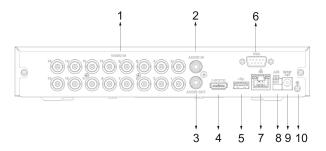


DHI-ARB1606 Alarm Box

Dimensions (mm[inch])



Panels



1 VIDEO IN 2 AUDIO IN, RCA Connector

3 AUDIO OUT, RCA Connector 4 HDMI Port
 5 USB Port 6 VGA Port
 7 Network Port 8 RS-485 Port
 9 Power Input 10 Ground