



# DH-XVR5416L-I3

# 16CH Penta-brid 5MP Value/1080P 1.5U 4HDDs 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.

- 2-channel QuickPick 2.0 for analog channels which improves the efficiency of target retrieval.
- 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 8 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 Al Mode.

#### QuickPick 2.0

By employing the back-end perimeter protection algorithm, QuickPick 2.0 not only retains the capability to identify the color of clothing and vehicles, which was offered by its predecessor QuickPick 1.0, but it also possesses the enhanced ability to detect various types of hats, clothing and vehicles, thus greatly improving the accuracy of the search function.

\*QuickPick 2.0 takes effect when Quick Pick is enabled in AI Mode.

#### 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		
Main Processor  Operating System  Operating Interface  QuickPick 2.0  QuickPick 2.0 Al by	Industrial-grade processor  Embedded Linux  Web; Local GUI	IP Camera Input
Recorder (Number of Channels)  Perimeter Protection  Perimeter Performance AI	2 channels  Advanced Mode: 2 channels, 10 IVS rules for each channel	Encoding Capacity
by Recorder (Number of Channels)	General Mode: 4 channels, 10 IVS rules for each channel	0.1.
Face Detection		Dual-stream  Video Bit Rate
Face Attributes	6 attributes	Audio Sampling
Face Detection		Audio Bit Rate
Performance of AI by Recorder (Number of Channels)	2 channels(up to 12 face images/s each channel)	Addio bit Nate
Face Recognition Face Database Capacity Face Recognition	Up to 10 face databases with 10,000 images.	Video Output
Performance of Al by Recorder (Number of Channels)	2 channels	M. Iv.
SMD Plus		Multi-screen Display
	16 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Third-party Camera Access
SMD Plus by Recorder		Compression Standar Video Compression
SMD Plus by Camera	24 channels	Audio Compression
Al Video Quality Analy	ytics	Network
Al Video Quality Analytics by Recorder Scene Changing	16 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white	Network Protocol
Scene Changing by		Mobile Phone Access
Recorder	1 channel	Interoperability
Irregular Black Block I	Masking	Browser
Irregular Black Block	1 channel	Network Mode
Masking by Recorder  Audio and Video		Recording Playback
Addio and video	16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-	Record Mode
Analog Camera Input	detect 1. CVI: 5 MP@25 fps; 5 MP@20 fps; 5 MP@10/12.5 fps;	Recording Playback
Camera Input	4 MP@25/30 fps; 1080p@25/30 fps; 720p@50/60 fps; 720p@25/30fps. 2. TVI: 5 MP(2560 x 1944)@20 fps; 5 MP(2960 x 1665)@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.	Backup Method
		Playback Mode

Storage					
Disk Group	Yes				
Alarm					
General Alarm	Motion detection; local alarm; 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	Face detection; face recognition; perimeter protection; SMD Plus				
Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; audio; buzzer; log; preset; email				
Ports					
CVBS Output	1 channel				
Audio Input	4-channel BNC 16-channel BNC (Coaxial Audio)				
Audio Output	1-channel BNC				
Two-way Talk	1-channel BNC				
Alarm Input	16 channels				
Alarm Output	6 channels				
Disk Interface	4 SATA ports. Each disk can contain up to 16 TB. This limit varies depending on the environment temperature.				
eSATA	1				
RS-232	1				
RS-485	1				
USB	3(1 front USB 2.0 port, 2 rear USB 3.0 ports)				
HDMI	2				
VGA	1				
Network Port	2 (10/100/1000 Mbps Ethernet port, RJ-45)				
General					
Power Supply	100–240 VAC, 50±2% Hz				
Power Consumption	<15 W(without HDD)				
Net Weight	4.45 kg (9.81 lb)				
Gross Weight	6.75 kg (14.88 lb)				
Product Dimensions	440.0 mm × 420.2 mm × 76.0 mm (17.32" × 16.54" × 2.99") (W × D × H)				
Packaging Dimensions	529.0 mm $\times$ 499.0 mm $\times$ 211.0 mm (20.83" $\times$ 19.65" $\times$ 8.31") (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				
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-XVR5416L-l3	16CH Penta-brid 5MP Value/1080P 1.5U 4HDDs WizSense Digital Video Recorder		

### Accessories

## Optional:







DHI-SSD-V800S256G SSD

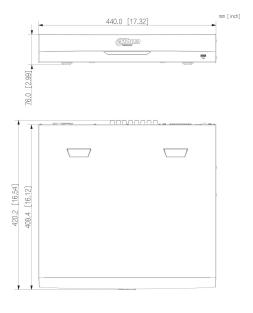
DHI-SSD-V800S512G SSD

DHI-SSD-V800S1TB SSD

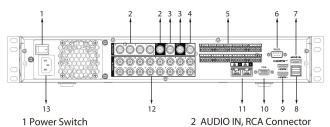


DHI-ARB1606 Alarm Box

# Dimensions (mm[inch])



#### **Panels**



- 1 Power Switch
- 4 VIDEO OUT
- 3 AUDIO OUT, RCA Connector
- 6 RS-232 Port
- 5 Alarm In/Out 7 eSATA Port
- 8 USB Ports

9 HDMI Ports

- 10 VGA Port
- 11 Network Ports
- 12 VIDEO IN
- 13 Power Input