



# DH-XVR5104HS-5M-I3

# 4CH Penta-brid 5MP 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, XVR5000-5M-I3 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**

## 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.

- 1-channel QuickPick 2.0 for analog channels which improves the efficiency of target retrieval.
- 4-channel SMD Plus for analog channels or 6-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.
- 1-channel face recognition for analog channels which supports face comparison.
- 4-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 6-channel IP camera input and each channel can be up to 6 MP. The incoming bandwidth reaches 32 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.

#### 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 Al 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.

#### HDMI (4K)

The HDMI port can support up to 4K output, delivering clear and highly detailed images.

Technical Specification	on		
System			
Main Processor Operating System Operating Interface Quick Pick QuickPick 2.0 Al by	Industrial-grade processor  Embedded Linux  Web; Local GUI	IP Camera Inpi	ut
corder (Number of nannels) erimeter Protection rimeter Performance Al Recorder (Number of nannels) ace Detection ce Attributes ce Detection rformance of Al by corder (Number of nannels) ace Recognition	Advanced Mode: 2 channels, 10 IVS rules for each channel General Mode: 4 channels, 10 IVS rules for each channel  6 attributes  1 channel (up to 8 face images/s each channel)	Encoding Capaci	ty
e Database Capacity	Up to 10 face databases with 10,000 images.	Dual-stream	
ace Recognition		Video Bit Rate	
erformance of AI by ecorder (Number of	1 channel	Audio Sampling	
Channels)		Audio Bit Rate	
SMD Plus	4 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Video Output	
SMD Plus by Camera	6 channels	Multi-screen Display	
Al Video Quality Ana	ytics	Third-party Camera Acc	220
AI Video Quality Analytics	4 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and	Compression Stan	
by Recorder	white	Video Compression	uui
Scene Changing		Audio Compression	
Scene Changing by	1 channel	Network	
Recorder  Irregular Black Block Masking			
Irregular Black Block Masking by Recorder	1 channel	Network Protocol	
Audio and Video		Mobile Phone Access	
Analog Camera Input	4 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-	Interoperability	
Camera Input	detect  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; 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.	Browser	
		Recording Playbac	:k
		Record Mode	
		Recording Playback	
		Backup Method	

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	Face detection; face recognition; perimeter protection; SMD Plus				
Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log; preset; email				
Ports					
Audio Input	1-channel RCA 4-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 2.0 port)				
HDMI	1				
VGA	1				
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)				
General					
Power Supply	12 VDC, 1.5 A				
Power Consumption	<5 W (without HDD)				
Net Weight	0.84 kg (1.85 lb)				
Gross Weight	1.37 kg (3.02 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	344.0 mm $\times$ 89.0 mm $\times$ 287.0 mm (13.54" $\times$ 3.50" $\times$ 11.30") (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-LVD: IEC 62368-1:2014 CE-EMC: EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN 55024:2010+A1:2015, EN 50130-4:2011+A1:2014				

Ordering Information					
Туре	Model	Description			
DIGITAL VIDEO RECORDER	DH-XVR5104HS-5M-I3	4CH Penta-brid 5MP Compact 1U 1HDD			

Туре	Model	Description
		WizSense Digital Video Recorder

## Accessories

## Optional:







DHI-SSD-V800S256G SSD

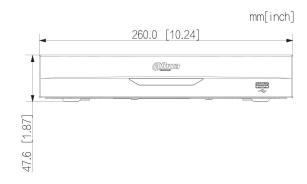
DHI-SSD-V800S512G SSD

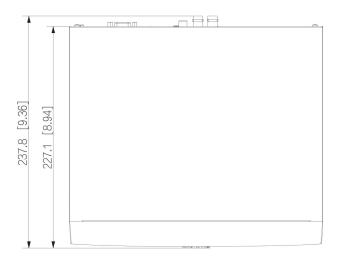
DHI-SSD-V800S1TB SSD



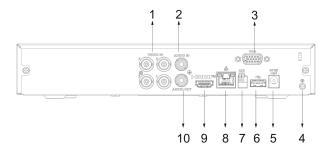
DHI-ARB1606 Alarm Box

# Dimensions (mm[inch])





### **Panels**



- VIDEO IN 2 AUDIO IN, RCA Connector
- 3 VGA Port
  5 Power Input
  6 USB Port
  7 RS-485 Port
  8 Network Port
- 9 HDMI Port 10 AUDIO OUT, RCA Connector