



# DH-XVR5108H-I3-8P

# 8CH Penta-brid 5MP Value/1080P Mini 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 Al 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 target retrieval efficiency.
- 8-channel SMD Plus for analog channels or 12-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.
- 8-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 12-channel IP camera input and each channel can be up to 6 MP. The incoming bandwidth reaches 64 Mbps.
- · Smart H.265+ and Smart H.265 dual-stream video compression.
- · IoT and POS capabilities.
- All the channels support PoC AT and PoC AF cameras, and the XVR auto recognizes PoC cameras that have different power consumption levels.













#### **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.

#### PoC

By transmitting power over the same coaxial cable with video, HDCVI PoC technology further simplifies the deployment of HDCVI system, and therefore reduces installation time and labor costs. Balun could be connected for compatibility with UTP transmission when PoC function is disabled.

Operating interface Web; Local GUI  QuickPick 2.0 Al by Recorder (Number of Channels)  Perimeter Protection  Perimeter Performance Al by Recorder (Number of Channels)  Advanced Model: 2 channels, 10 IVS rules for each channel by Recorder (Number of Channels)  Face Detection  Face Attributes 6 attributes  Face Detection  Face Detection  Face Attributes 5 attributes  Face Detection  Face Detection  Face Attributes 6 attributes  Face Detection  Face Patabase Capacity Up to 10 face databases with 10,000 images.  Face Recognition  Face Recognition  Face Recognition  Face Recognition  Face Nether (Number of Channels)  SMD Plus by Recorder (Number of Channels)  SMD Plus by Recorder (Number of Channels)  Audi  Audi  Al Video Quality Analytics by Recorder  Al Video Quality Analytics  Al Video Quality Analytics  B channels: Supports detecting brightness levels, color cast, defocus, overesposure, contrast levels, black and white  Scene Changing by Recorder  1 channel  Seen Chang	Toohnical Cocalfication				
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Performance of AI by Recorder (Number of Channels)  Face Recognition  Face Batabase Capacity  Up to 10 face databases with 10,000 images.  Face Recognition  Face Record Recognition  Face Recording Playback  Face Record Mode  Fac	Channels) Face Detection	General Model: 4 channels, 10 IVS rules for each channel	Encoding Capacity		
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Performance of Al by Recorder (Number of Channels)  SMD Plus  SMD Plus by Recorder  Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change  SMD Plus by Camera  Al Video Quality Analytics by Recorder  Al Video Quality Analytics and Property of the Compression Standary Video Compression  Audio Compression  Audio Compression  Network  Irregular Black Block Masking  Irregular Black Block Masking  Irregular Black Block Masking  Analog Camera Input  B BNC ports, supports HDCVI/AHD/TVI/CVBS autodetext  Analog Camera Input  B BNC ports, supports HDCVI/AHD/TVI/CVBS autodetext  Analog Camera Input  B BNC ports, supports HDCVI/AHD/TVI/CVBS autodetext  A MP@25/30 fps; 1080p@25/30 fps; 720p@50/60 fps;  720p@25/30 fps.  1. CVI: 5 MP@25/30 fps; 5 MP@20 fps; 5 MP@200 fps;  720p@25/30 fps.  2. TVI: 5 MP@25/30 ts. 1944)@20 fps; 5 MP(2960 x.		Up to 10 face databases with 10,000 images.			
Channels)  SMD Plus  8 Channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change  SMD Plus by Camera  12 channels  Al Video Quality Analytics  Al Video Quality Analytics  Al Video Quality Analytics  Al Video Quality Analytics  by Recorder  Al Video Quality Analytics  Scene Changing  Scene Changing by Recorder  1 channel  Irregular Black Block Masking  Irregular Black Block  Analog Camera Input  8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect 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 104 fps;	Performance of AI by	1 channel			
SMD Plus by Recorder  8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change  SMD Plus by Camera  12 channels  Al Video Quality Analytics Al Video Quality Analytics by Recorder  8 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white  Video Compression  Scene Changing  Scene Changing by Recorder  1 channel  1 channel  Network  Irregular Black Block Masking  Irregular Black Block Masking  Irregular Black Block Masking  Irregular Black Block Masking  Irregular Black Block Masking by Recorder  Audio and Video  Analog Camera Input  8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect 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 100 fps)  1 College Additional Plack Block Record Mode  1 College Additional Plack Block Record Mode	· ·		Video Bit Rate		
8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change  SMD Plus by Camera  12 channels  Multi-screen Display  Multi-screen Display  Al Video Quality Analytics Al Video Quality Analytics By Recorder  8 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white  Compression Standa Video Compression  Audio Compression  Network  Irregular Black Block Masking  Irregular Black Block Masking  Irregular Black Block Masking  Audio and Video  Analog Camera Input  8 BNC ports, supports HDCVI/AHD/TVI/CVBS auto- 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  ACCIDENT STANDARS (PACE) for a convent of the face.	SMD Plus				
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Al Video Quality Analytics by Recorder  8 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white  Compression Standar Video Compression  Audio Compression  Audio Compression  Network  Pregular Black Block Masking  Pregular Black Block Masking  Pregular Black Block Masking  Recorder  Audio and Video  Analog Camera Input  8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect  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 1945) Record Mode  Record Mode	Al Video Quality Anal	ytics	Third party Camera Access		
Video Compression  Scene Changing Scene Changing by Recorder  1 channel  Network  Irregular Black Block Masking  Irregular Black Block Masking by Recorder  Audio and Video  Analog Camera Input  8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect  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@50/60 fps; 720p@25/30fps.  Camera Input  Video Compression  Audio Compression  Network  Network Protocol  Mobile Phone Access  Interoperability Browser  Recording Playback  720p@25/30fps. 2. TVI: 5 MP(2560 x 1944)@20 fps; 5 MP(2960 x 1900 fps; 1080 fps;		cast, defocus, overexposure, contrast levels, black and		Third-party Camera Access Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF  Compression Standard	
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Irregular Black Block Masking by Recorder  Audio and Video  Analog Camera Input  8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect  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 1000 @35 for the second Mode		1 channel	Network		
Audio and Video  Analog Camera Input  8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect  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. TXI: 5 MP(2560 x 1944)@20 fps; 5 MP(2960 x 1945)@20 fps; 1080p@25/30 fps; 1080p@25/3	Irregular Black Block	_	Network Protocol		
Analog Camera Input  8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect  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			Mobile Phone Access		
Analog Camera Input  detect  Browser  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.  Camera Input  Camera Input  Camera Input  Camera Input  Record Mode	Audio and video	8 BNC norts supports HDCVI/AHD/TVI/CVRS auto-			
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.  Camera Input  1. CVI: 5 MP@25 fps; 5 MP@210/12.5 fps; A MP@10/12.5 fps; 5 MP@10/12.5 fps; 720p@50/60 fps; 720p@50/60 fps; 720p@25/30fps.  Record Mode	Analog Camera Input				
720p@25/30fps.  720p@25/30fps.  2. TVI: 5 MP(2560 x 1944)@20 fps; 5 MP(2960 x  2. TVI: 5 MP(2560 x 1944)@20 fps; 6 MP(2960 x	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;			
2. TVI: 5 MP(2560 x 1944)@20 fps; 5 MP(2960 x					
720p@25/30 fps.					

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	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 (external) 8-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	53 VDC, 1.812 A
Power Consumption	<10 W(without HDD)
Net Weight	1.20 kg (2.65 lb)
Gross Weight	2.31 kg (5.09 lb)
Product Dimensions	325.0 mm $\times$ 257.1 mm $\times$ 55.0 mm (12.80" $\times$ 10.12" $\times$ 2.17") (W $\times$ D $\times$ H)
Packaging Dimensions	372.0 mm $\times$ 117.0 mm $\times$ 308.0 mm (14.65" $\times$ 4.61" $\times$ 12.13") (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 62368-1 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-XVR5108H-I3-8P	8CH Penta-brid 5MP Value/ 1080P Mini 1U 1HDD				

Туре	Model	Description
		WizSense Digital Video Recorder

### Accessories

### Optional:







DHI-SSD-V800S256G SSD

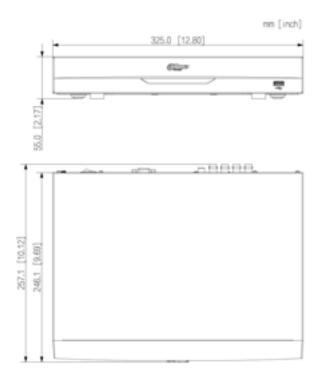
DHI-SSD-V800S512G SSD

DHI-SSD-V800S1TB SSD

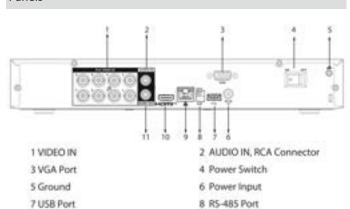


DHI-ARB1606 Alarm Box

## Dimensions (mm[inch])



#### **Panels**



10 HDMI Port

11 AUDIO OUT, RCA Connector

9 Network Port