

DH-XVR5116HS-5M-I3

16CH Penta-brid 5MP Compact 1U 1HDD WizSense Digital Video Recorder



Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI 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.

- 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 Al.
- 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.

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.

HDMI (4K)

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

Wiz Sense | DH-XVR5116HS-5M-I3

Technical Specification	1		
System			
Main Processor Operating System Operating Interface Quick Pick QuickPick 2.0 AI by	Industrial-grade processor Embedded Linux Web; Local GUI		IP Camera Input
Recorder (Number of Channels) Perimeter Protection Perimeter Performance Al by Recorder (Number of	2 channels Advanced Mode: 2 channels, 10 IVS rules for each channel		
Channels) Face Detection Face Attributes Face Detection Performance of AI by	General Mode: 4 channels, 10 IVS rules for each channel 6 attributes 2 channels (up to 12 face images/s each channel)		Encoding Capacity
Recorder (Number of Channels) Face Recognition Face Database Capacity Face Recognition	Up to 10 face databases with 10,000 images.		
Performance of AI by	2 channels		Dual-stream
Recorder (Number of Channels)			Video Bit Rate
SMD Plus		Audio Sar	npling
	16 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Audio Bit Rate	
VID Plus by Recorder VID Plus by Camera		Video Output	
Al Video Quality Analy	rtics	Multi-screen Dicolog	
Al Video Quality Analytics	16 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white	Multi-screen Display	
by Recorder		Third-party Camera Acc	
Scene Changing		Compression Stan	dar
Scene Changing by	1 channel	Video Compression	
Recorder		Audio Compression	
Irregular Black Block N	Лаsking	Network	
Irregular Black Block Masking by Recorder Audio and Video	1 channel	Network Protocol	
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-	Mobile Phone Access	
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.	Interoperability	
		Browser	
		Recording Playba	ck
		Record Mode	
		Recording Playback	

Wiz Sense | DH-XVR5116HS-5M-I3

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 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 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 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	1.00 kg (2.20 lb)			
Gross Weight	1.55 kg (3.42 lb)			
Product Dimensions	260.0 mm × 237.8 mm × 47.6 mm (10.24" × 9.36" × 1.87") (W × D × H)			
Packaging Dimensions	344.0 mm × 89.0 mm × 287.0 mm (13.54" × 3.50" × 11.30") (W × D × 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 Type Model Description DIGITAL VIDEO RECORDER DH-XVR5116HS-5M-I3 16CH Penta-brid 5MP Compact 1U 1HDD 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])





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