

DH-XVR5216AN-5M-I3

16CH Penta-brid 5MP 1U 2HDDs 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.

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.

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.

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-XVR5216AN-5M-I3

Technical Specificatio	n		Up to 24 channels of IPC access
System			8 IP channels by default + 16 channels (analog cha are converted to IP channels)
Main Processor	Industrial-grade processor	IP Camera Input	Incoming bandwidth: 128 Mbps, recording bandw 128 Mbps and outgoing bandwidth: 128 Mbps
Operating System	Embedded Linux		*After IP extension is enabled, Video Quality Analy Scene Changing, Face Recognition, Face Detection, SMD, Perimeter Protection and QuickPick 2.0 cann
Operating Interface	Web; Local GUI		
Quick Pick			used. Encode Enhancement disabled :
QuickPick 2.0 Al by Recorder (Number of Channels)	2 channels	Encoding Capacity	 Main stream: SM-N@(1 fps -12 fps); 4M-N/1080p@(1 fps-15 fp 1080N/720p/960H/D1/CIF@(1 fps-25/30 fps) Sub stream: D1/CIF@(1 fps-15 fps) Encode Enhancement enabled : Main stream: 8-ch 5 MP@(1 fps-12 fps)/ 5M-N@(1 fps-25 fps), o 5M-N@(1 fps-12 fps); 8-ch 4M-N/1080p@(1 fps-25 fps), others 4M-N/1080p@(1 fps-15 fps); 1080N/7 960H/D1/CIF@(1 fps-25/30 fps) Sub stream: D1/CIF@(1 fps-12 fps) when Main str is 5 MP/5M-N. *When Encode Enhancement is enabled, Video Qu Analytics, Scene Changing, Face Recognition, Face Detection, Perimeter Protection and QuickPick 2.0 cannot be used.
Perimeter Protection			
Perimeter Performance AI by Recorder (Number of Channels)	Advanced Mode: 2 channels, 10 IVS rules for each channel General Mode: 4 channels, 10 IVS rules for each channel		
Face Detection			
Face Attributes	6 attributes		
Face Detection Performance of AI by Recorder (Number of	2 channels (up to 12 face images/s each channel)		
Channels)		Dual-stream	Yes
Face Recognition		Video Bit Rate	32 kbps–6144 kbps
Face Database Capacity	Up to 10 face databases with 10,000 images.	Audio Sampling	8 kHz, 16 bit
Face Recognition Performance of AI by		Audio Bit Rate	64 kbps
Recorder (Number of Channels)	2 channels	Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 2560 × 1440, 1920 × 1080, 1 1024, 1280 × 720 VGA: 1020 × 1020 × 1024, 1280 × 720
SMD Plus	16 shappeds, Cocondary filtering for human and ushield		VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 When IP extension mode not enabled: 1/4/8/9/1
SMD Plus by Recorder	16 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Multi-screen Display	When IP extension mode enabled: 1/4/8/9/16/25
SMD Plus by Camera	24 channels	Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF
Al Video Quality Analytics		Compression Standard	
	16 channels: Supports detecting brightness levels, color	Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H
Al Video Quality Analytics by Recorder	cast, defocus, overexposure, contrast levels, black and white	Audio Compression	G.711a; G.711u; PCM
Scene Changing		Network	
Scene Changing by Recorder	1 channel	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Al Server; P2P; Auto Registration; IP Search (Support
Irregular Black Block I	Masking	Mobile Phone Access	camera, DVR, NVS, etc.) iOS; Android
Irregular Black Block	1 channel	Interoperability	ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; SI
Masking by Recorder		Browser	Chrome; IE; Safari; Edge; Firefox
Audio and Video		Recording Playback	Chronic, IL, Jaian, Luge, Filelox
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto- detect	Record Mode	General; alarm; motion detection; intelligent; PO
	 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@25/30 fps. TVI: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. AHD: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 		
Camera Input		Recording Playback	1/4/9/16
		Backup Method	USB device and network Instant playback; general playback; event playbac

Wiz Sense | DH-XVR5216AN-5M-I3

Storage				
Disk Group	Yes			
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	2 SATA ports. Each disk can contain 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, 4 A			
Power Consumption	<12 W (without HDD)			
Net Weight	1.80 kg (3.97 lb)			
Gross Weight	2.86 kg (6.31 lb)			
Product Dimensions	375.0 mm × 289.6 mm × 53.0 mm (14.76" × 11.40" × 2.09") (W × D × H)			
Packaging Dimensions	427.0 mm × 137.0 mm × 356.0 mm (16.81" × 5.39" × 14.02") (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

Туре	Model	Description
DIGITAL VIDEO RECORDER	DH-XVR5216AN-5M-I3	16CH Penta-brid 5MP 1U 2HDDs WizSense Digital Video Recorder

Accessories

Optional:







DHI-SSD-V800S256G SSD

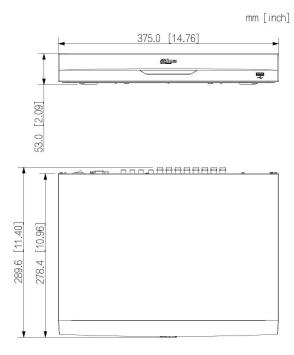
DHI-SSD-V800S512G SSD

DHI-SSD-V800S1TB SSD



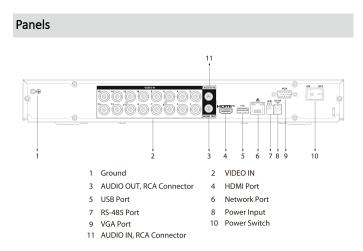
DHI-ARB1606 Alarm Box

Dimensions (mm[inch])



www.dahuasecurity.com

Wiz Sense | DH-XVR5216AN-5M-I3



Rev 002.000 © 2024 Dahua. All rights reserved. Design and specificatons are subject to change without notce. Pictures in the document are for reference only, and the actual product shall prevail.