



DH-XVR5216AN-I3

16CH Penta-brid 5MP Value/1080P 1U 2HDDs 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.

- 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 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.

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	Industrial-grade processor			
Operating System	Embedded Linux			
perating Interface	Web; Local GUI			
Perimeter Protection		Encoding Capacity		
Perimeter Performance Al 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			
		Dual-stream		
Face Detection	Chamic	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)	Video Output		
Face Recognition				
Face Database Capacity	Up to 10 face databases with 10,000 images.			
Face Recognition Performance of AI by		Multi-screen Display		
Recorder (Number of	2 channels	Third-party Camera Access		
Channels)		Compression Standa	Compression Standard	
SMD Plus	16 channels:	Video Compression		
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle,	Audio Compression		
	reducing false alarms caused by leaves, rain and lighting condition change	Network		
SMD Plus by Camera	24 channels			
Al Video Quality Analytics		Network Protocol		
Al Video Quality Analytics by Recorder	16 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and	Mobile Phone Access		
,	white	Interoperability		
Scene Changing by		Browser		
Scene Changing by Recorder	1 channel	Recording Playback	Recording Playback	
Irregular Black Block N	Masking	Record Mode		
Irregular Black Block Masking by Recorder	1 channel	Recording Playback		
Audio and Video		Backup Method		
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	Playback Mode		
Camera Input	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@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.	Storage		
		Disk Group		
		Alarm		
		General Alarm		
IP Camera Input	Up to 24 channels of IPC access 8 IP channels by default + 16 channels (analog channels are converted to IP channels)	Anomaly Alarm		

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	1.56 kg (3.44 lb)	
Gross Weight	2.86 kg (6.31 lb)	
Product Dimensions	375.0 mm × 289.6 mm × 53.0 mm (14.76" × 11.39" × 2.09") (W × D × H)	
Packaging Dimensions	433.0 mm × 141.0 mm × 366.0 mm (17.05" × 5.55" × 14.41") (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: 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-XVR5216AN-I3	16CH Penta-brid 5MP Value/1080P 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])

mm [inch]

