



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.

- 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 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 Al 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.

Technical Specification	n		3. AHD: 5 MP@20 fps; 4 MP@25/30 fps;	
System			fps; 720p@25/30 fps.	
Main Processor	Industrial-grade processor		Up to 24 channels of IPC access 8 IP channels by default + 16 channels (and	
Operating System	Embedded Linux	IP Camera Input	are converted to IP channels) incoming bandwidth: 128 Mbps, recordir	
Operating Interface	Web; Local GUI		128 Mbps and outgoing bandwidth: 128 M *After IP extension is enabled, Video Quali	
QuickPick 2.0	QuickPick 2.0		Scene Changing, Face Recognition, Face I SMD, Perimeter Protection and QuickPick	
QuickPick 2.0 Al by Recorder (Number of	2 channels		used. Main stream:	
Channels)			5 MP Mode: 4-ch 5 MP@(1 fps-6 fps); oth fps-12 fps)	
Perimeter Protection Perimeter Performance AI by Recorder (Number of	Advanced Mode: 2 channels, 10 IVS rules for each channel General Mode: 4 channels, 10 IVS rules for each	Encoding Capacity	5M-N Mode: 5M-N@(1 fps –12 fps); 4M- fps–15 fps); 1080N/720p/960H/D1/CIF@ fps) Sub stream: D1/CIF@(1 fps–15 fps)	
Channels)	channel	Dual-stream	Yes	
Face Detection		Video Bit Rate	32 kbps–6144 kbps	
Face Attributes	6 attributes	Audio Sampling	8 kHz, 16 bit	
Face Detection Performance of AI by		Audio Bit Rate	64 kbps	
Recorder (Number of Channels)	2 channels(up to 12 face images/s each channel)		1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × HDMI: 3840 × 2160, 1920 × 1080, 1280 >	
Face Recognition		Video Output	720	
Face Database Capacity Face Recognition	Up to 10 face databases with 10,000 images.		It changes to 1920 × 1080, 1280 × 1024, when Face, IVS&SMD or Quick Pick is sele Mode.	
Performance of AI by Recorder (Number of Channels)	2 channels	Multi-screen Display	When IP extension mode not enabled: 1/4/8, When IP extension mode enabled: 1/4/8,	
SMD Plus		Third-party Camera Access Panasonic; Sony; Hanwha; Axis; Arecont; ON		
5.11.5 1.14.5	16 channels:	Compression Standard		
SMD Plus by Recorder	Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting	Video Compression	Al Coding; Smart H.265+; H.265; Smart H	
	condition change	Audio Compression	G.711a; G.711u; PCM	
SMD Plus by Camera	24 channels	Network	Network	
Al Video Quality Analytics by Recorder	16 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UI DNS; SMTP; UPnP; IP Filter; FTP; DDNS; S Server; P2P; Auto Registration; IP Search camera, DVR, NVS, etc.)	
•	white	Mobile Phone Access	iOS; Android	
Scene Changing		Interoperability	ONVIF 24.06 (Profile T; Profile S; Profile G	
Scene Changing by Recorder	1 channel	Browser	Chrome; IE; Safari; Edge; Firefox	
Irregular Black Block N	Masking	Recording Playback	Recording Playback	
Irregular Black Block		Record Mode	General; alarm; motion detection; intellig	
Masking by Recorder	1 channel		1/4/9/16	
Audio and Video	16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-	Recording Playback	It changes to 1/4/9 split when Face or IVS selected in Al Mode.	
Analog Camera Input	detect	Backup Method	USB device and network	
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(2560 x 1944)@20 fps; 5 MP(2960 x	Playback Mode	Instant playback; general playback; event playback; smart playback	
		Storage		
	1665)@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.	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	1.56 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" ×				

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	rowei Supply	12 VDC, 4 A	
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CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024	Installation	Desktop	
	Certifications	CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024	

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

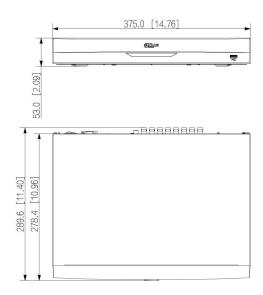
DHI-SSD-V800S1TB SSD



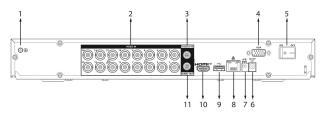
DHI-ARB1606 Alarm Box

Dimensions (mm[inch])

mm [inch]



Panels



1 Ground 3 AUDIO IN, RCA Connector

5 Power Switch

7 RS-485 Port

9 USB Port

11 AUDIO OUT, RCA Connector

2 VIDEO IN

4 VGA Port 6 Power Input

8 Network Port

10 HDMI Port