



DH-XVR5216AN-5M-I3

16CH Penta-brid 5MP 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, XVR5000-5M-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 AI.
- 2-channel face recognition for analog channels which supports face comparison.
- 16-channel Al 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.

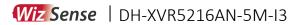
*QuickPick 2.0 takes effect when Quick Pick is enabled in Al Mode.

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.

HDMI (4K)

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



Tachnical Specification	2		3. AHD: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25	
Technical Specification			fps; 720p@25/30 fps.	
System	Industrial grade processor		Up to 24 channels of IPC access 8 IP channels by default + 16 channels (analog channer converted to IP channels) Incoming bandwidth: 128 Mbps, recording bandwidth 128 Mbps and outgoing bandwidth: 128 Mbps *After IP extension is enabled, Video Quality Analytic Scene Changing, Face Recognition, Face Detection,	
Main Processor	Industrial-grade processor			
Operating System	Embedded Linux	IP Camera Input		
Operating Interface	Web; Local GUI			
Quick Pick			SMD, Perimeter Protection and QuickPick 2.0 cannot used.	
QuickPick 2.0 AI by Recorder (Number of Channels)	2 channels		Encode Enhancement disabled: Main stream: Channels 1-4 5M-N@(1 fps-25 fps), others 5M-N@(fps-12 fps); Channels 1-4 4M-N/1080p@(1 fps-25/30 fps), others 4M-N/1080p@(1 fps-15 fps); 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), oth 5M-N@(1 fps-12 fps); 8-ch 4M-N/1080p@(1 fps-25 fps), others 4M-N/1080p@(1 fps-15 fps); 1080N/720 960H/D1/CIF@(1 fps-25/30 fps) Sub stream: D1/CIF@(1 fps-15 fps); It changes to D1/CIF@(1 fps-12 fps) when Main stream: 5 MP/5M-N. *When Encode Enhancement is enabled, Video Quali Analytics, Scene Changing, Face Recognition, Face Detection, Perimeter Protection and QuickPick 2.0 cannot be used.	
Perimeter Protection				
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			
Face Detection		Encoding Conscitu		
Face Attributes	6 attributes	Encoding Capacity		
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)			
Face Recognition				
Face Database Capacity	Up to 10 face databases with 10,000 images.			
Face Recognition	2 channels	Dual-stream	Yes	
Performance of AI by Recorder (Number of		Video Bit Rate	32 kbps-6144 kbps	
Channels)		Audio Sampling	8 kHz, 16 bit	
SMD Plus	16 share also Carradam Election for home and subject	Audio Bit Rate	64 kbps	
SMD Plus by Recorder	16 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 2560 × 1440, 1920 × 1080, 128 1024, 1280 × 720	
SMD Plus by Camera	24 channels		VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
Al Video Quality Analytics 16 channels: Supports detecting brightness levels, color		Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25	
Al Video Quality Analytics by Recorder	cast, defocus, overexposure, contrast levels, black and	Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF	
Scene Changing	white	Compression Standar	Compression Standard	
		Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.2	
Scene Changing by Recorder	1 channel	Audio Compression	G.711a; G.711u; PCM	
Irregular Black Block Masking		Network	Network	
Irregular Black Block Masking by Recorder	1 channel	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; D DNS; SMTP; UPPP; IP Filter; FTP; DDNS; SNMP; Alar Server; P2P; Auto Registration; IP Search (Supports	
Audio and Video			camera, DVR, NVS, etc.)	
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	Mobile Phone Access	iOS; Android	
	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	ONVIF 24.06 (Profile T; Profile S; Profile G); CGI; SDI	
Camera Input		Browser	Chrome; IE; Safari; Edge; Firefox	
		Recording Playback		
		Record Mode	General; alarm; motion detection; intelligent; POS	
		Recording Playback	1/4/9/16	

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Backup Method	USB device and network
Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback
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 \times 289.6 mm \times 53.0 mm (14.76" \times 11.40" \times 2.09") (W \times D \times 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

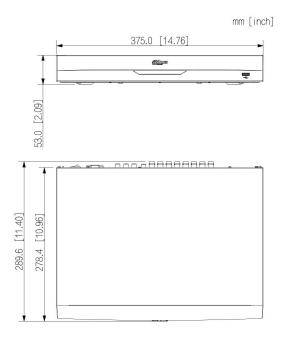
DHI-SSD-V800S512G SSD

DHI-SSD-V800S1TB SSD



DHI-ARB1606 Alarm Box

Dimensions (mm[inch])



Panels

