



# DH-XVR5232AN-5M-I3

# 32CH 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 conflicts with SMD Plus and Perimeter Protection.

#### 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.

## 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.

- 2-channel QuickPick 2.0 for analog channels which improves the efficiency of target retrieval.
- 32-channel SMD Plus for analog channels or 48-channel SMD by camera which allows the device to trigger accurate alarms for humans and vehicles.
- 8-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 48-channel IP camera input and each channel can be up to 6 MP. The incoming bandwidth reaches 192 Mbps.
- · Smart H.265+ and H.265 dual-stream video compression.
- · IoT and POS capabilities.















#### 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.

Technical Specification	n		Up to 48 channels of IPC access	
System			16 IP channels by default + 32 channels (analog channels are converted to IP channels)	
Main Processor	Industrial-grade processor	IP Camera Input	Incoming bandwidth: 192 Mbps, recording bandwi 192 Mbps and outgoing bandwidth: 192 Mbps *After IP extension is enabled, Video Quality Analy Scene Changing, Face Recognition, Face Detection,	
Operating System	Embedded Linux	·		
Operating Interface	Web; Local GUI		SMD, Perimeter Protection and QuickPick 2.0 can used.	
Quick Pick			Encode Enhancement disabled :	
QuickPick 2.0 Al by Recorder (Number of Channels)	2 channels	Encoding Capacity	Main stream: 5M-N@(1 fps -12 fps); 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: 16-ch 5 MP@(1 fps-12 fps)/ 5M-N@(1 fps-25 fps), others 5M-N@(1 fps-12 fps); 16-ch 4M-N/1080p@( fps-25 fps), others 4M-N/1080p@(1 fps-15 fps); 108 720p/960H/D1/CIF@(1 fps-25/30 fps) Sub stream: D1/CIF@(1 fps-15 fps) It changes to D1/CIF@(1 fps-15 fps) it changes to D1/CIF@(1 fps-15 fps) *When Encode Enhancement is enabled, Video Qua 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: 8 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, 1 TV HDMI: 3840 × 2160, 2560 × 1440, 1920 × 1080, 1 1024, 1280 × 720	
SMD Plus		video Odiput	VGA: $1920 \times 1080$ , $1280 \times 1024$ , $1280 \times 720$ *Simultaneous/heterogeneous video sources out	
SMD Plus by Recorder	32 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change		VGA and HDMI is configurable.  Main Screen: 1/4/8/9/16/25/36	
SMD Plus by Camera	48 channels	Multi-screen Display	Sub Screen: 1/4/8/9/16 The sub screen display conflicts with IP extension	
Al Video Quality Analy	rtics		function.	
Al Video Quality Analytics	32 channels: Supports detecting brightness levels, color		Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF	
by Recorder	cast, defocus, overexposure, contrast levels, black and white	Compression Standar	Compression Standard	
Scene Changing		Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H	
Scene Changing by	1 channel	Audio Compression	G.711a; G.711u; PCM	
Recorder		Network		
Irregular Black Block N	Masking		HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Ala	
Irregular Black Block Masking by Recorder	1 channel	Network Protocol	Server; P2P; Auto Registration; IP Search (Suppor camera, DVR, NVS, etc.)	
Audio and Video		Mobile Phone Access	iOS; Android	
Analog Camera Input	32 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	Interoperability	ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; S	
	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@25/30 fps. 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.	Browser	Chrome; IE; Safari; Edge; Firefox	
Camera Input		Recording Playback		
		Record Mode	General; alarm; motion detection; intelligent; PO	
		Recording Playback	1/4/9/16	
		Backup Method	USB device and network	

Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback			
Storage				
Disk Group	Yes			
Alarm				
Aldilli	Mation detection, clarm boy LIDCV/ clarm, comerc			
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				
TV Output	1 channel			
Audio Input	1-channel RCA 32-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, 5 A			
Power Consumption	<16 W (without HDD)			
Net Weight	1.90 kg (4.20 lb)			
Gross Weight	3.20 kg (7.00 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-XVR5232AN-5M-13	32CH Penta-brid 5MP 1U 2HDDs WizSense Digital Video Recorder		

# Accessories

# Optional:





DHI-ARB1606 Alarm Box

# Dimensions (mm[inch])

