

DHI-NVR5464-AI/ANZ

64 Channels 1.5U 4HDD WizSense Network Video Recorder



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

The NVR5000-AI/ANZ series offers outstanding performance and highgrade recording technology that make it ideal for IP video surveillance applications. It has a powerful processor, that offers high access and forwarding bandwidth and strong decoding capabilities that together produce unimpeded streams. Thanks to its built-in AI chip and Dahua's advanced deep learning algorithms, the NVR supports a variety of AI functions, such as high-precision face recognition and perimeter protection. They shorten the response time to events and make videos more interactive. This NVR is compatible with numerous third-party devices, making it a great solution for surveillance systems that work with Video Management Software (VMS).

Functions

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to perform secondary recognition for the targets. Improving alarm accuracy.

Face Detection

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with those in face database to recognize the person identity.

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
- \cdot 32-channel 1080p self-adaptive decoding capability.
- · Max. 384 Mbps incoming/recording/outgoing bandwidth.
- Al by recorder: 2-channel face detection and recognition, 4-channel perimeter protection, and 8-channel SMD Plus.
- Al by camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
- · Security baseline 2.3.



Heat Map by Camera

Dahua heat map technology is used to display the crowd density and people appearance probability. Export and display the crowd status by different colors. Generally, the crowd status is the statistics of people quantity in space and time dimensions.

ANPR by Camera

With deep learning algorithm, Dahua ANPR technology can recognize the number plate information of vehicles in the image with ANPR cameras. Support blocklist/allowlist mode, searching target vehicles from recorded video.

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.



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Technical Specification		Vehicle License Plate Comparison		
System		ANPR by Camera (Number of Channels)	8 channels	
Main Processor	Industrial-grade processor	License Plate Database	1. Create up to 20,000 plate numbers.	
Operating System	Embedded Linux	Capacity	2. Blocklist and allowlist	
Operating Interface	Web, Local GUI	Audio and Video		
AI		Access Channel	Access Channel 64	
AI by Recorder	Face detection; face recognition; perimeter protection; SMD Plus Face detection; face recognition; video metadata	Network Bandwidth	AI disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing AI enabled: 200 Mbps incoming, 200 Mbps recording and	
Al by Camera	(human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map	Resolution	200 Mbps outgoing 32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF	
Perimeter Protectior			Al disabled: 2-channel 32 MP@20 fps; 2-channel 24 MP@20 fps; 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps; 8-channel 8 MP@30 fps; 12-channel 5 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps Al enabled: 1-channel 32 MP@20 fps; 1-channel 24 MP@20 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4 MP@30 fps; 24-channel 5 MP@30 fps;	
Perimeter Performance AI by Recorder (Number of Channels)	4 channels, 10 IVS rules for each channel	Decoding Capability		
Perimeter Performance of AI by Camera (Number of Channels)	16 channels			
Face Detection			2-channel VGA, 2-channel HDMI video output. Heterogeneous video source output for HDMI1 and	
Face Attributes Face Detection	Gender; age group; glasses; expressions; face mask; beard	Video Output	HDMI2 Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2	
Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)	Multi-screen Display	Supports 4K display Main screen: 1/4/8/9/16/25/36/64 Sub screen: 1/4/8/9/16	
Face Detection Performance of AI by Camera (Number of Channels)	16 channels	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung	
		Compression Standa	Compression Standard	
Face Recognition		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
	Up to 20 face databases with 20,000 images, with a	Audio Compression	G.711a; G.711u; PCM; G726	
Face Database Capacity	total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.	Network	HTTP; HTTPS; TCP/IP; IPv4/IPv6; RTSP; UDP; SNMP; NTP;	
Face Recognition Performance of AI by Recorder (Number of	1. 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s 2. 2-channe FD (by recorder) + FR (by recorder), video	Network Protocol	Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration	
Channels)	stream: 12 face images/s	Mobile Phone Access	iOS; Android	
Face Recognition Performance of AI by	16 channels	Interoperability	ONVIF 21.12(Profile T; Profile S; Profile G); CGI; SDK	
Camera (Number of Channels) SMD Plus		Browser	Chrome IE 9 or later Firefox	
SIVID Plus	8 channels: Secondary filtering for human and motor	Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes	
SMD Plus by Recorder	vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Recording Playback		
SMD Plus by Camera	16 channels	Multi-channel Playback	Up to 16 channels	
Video Metadata		Record Mode	General, motion detection; intelligent; alarm; POS	
Metadata Performance of AI by Camera (Number of	8 channels	Backup Method	USB device and network	
Channels) Human Attributes	Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella	Playback Mode Storage	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
Motor Vehicle Attributes	License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location.	Disk Group	YES	
Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.			



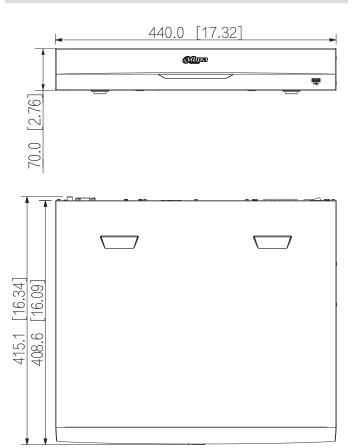
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General AlarmMotion detection; privacy masking; local alarmAnomaly AlarmCamera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exceptionIntelligent AlarmFace detection; perimeter protection; face recognition; vehicles); SMD Plus; steree analysis; crowd distribution; people counting; AMPR; vehicle density, heat mayAlarm LinkageRecord; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; logg, nesating alarm output; access controller; adding buzzer; logg, nesating alarm output; access controller; adding buzzer; logg, nesating alarm output; access controller; adding buzzer; logg, nesating buzzer; lo	Alarm					
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Intelligent Alarmvideo metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; AWRP, vehicle density, heat mapAlarm LinkageRecord; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; emailPortImage: Control of the sternal alarm output; access controller; audio; buzzer; log, preset; emailAudio Input1-channel RCAAudio Output2-channel RCAAudio Output2-channel RCAAlarm Input16 channels (1-channel 12 V 1 A output)HDD Interface45ATA ports, up to 16 TB.The maximum HDD capacity varies with environment temperature.eSATA1R5-2321 (half-duplex serial communication)USB3(1 front USB 2.0 port; 2 rear USB 3.0 ports)IDMI2VGA2Power Supply100-240 VAC, 50-60 HzPower Supply100-240 VAC, 50-60 HzPower Consumption511 kg (13.47 lb)Product Dimensions5.00 nm x 415.1 nm x70.0 mm (17.32" x 16.34" x 2.76" (W x x H)Product Dimensions5.00 nm x 210.0 mm (20.87" x 19.69" x 8.27" (W x x H)Operating Temperature-10"C to +55 °C (14 °F to +131 °F)Operating Temperature-00 °C to +60 °C (-4 °F to +140 °F)Operating Temperature-00 °C to +50 °C (14 °F to +131 °F)Storage Temperature-00 °C to +50 °C (14 °F to +140 °F)Operating Temperature-00 °C to +50 °C (14 °F to +140 °F)Operating Temperature-00 °C to +50 °C (14 °F to +140 °F)Operating Temperatur	Anomaly Alarm	MAC conflict; login lock; abnormal behavior of fan;				
Alarm Linkageexternal alarm output; access controller; audio; buzzer; log, preset; emailPortAudio Input1-channel RCAAudio Output2-channel RCAAlarm Input16 channelsAlarm Output6 channels (1-channel 12 V 1 A output)HDD Interface4 SATA ports, up to 16 TB.The maximum HDD capacity varies with environment temperature.eSATA1RS-2321INB3 (1 front USB 2.0 port, 2 rear USB 3.0 ports)HDMI2VGA2Network Port2 (10/100/1000 Mbps Ethernet port, RJ-45)GeneralTotal output of NVR is ≤ 13 W (without HDD)Power ConsumptionTotal output of NVR is ≤ 13 W (without HDD)Net Weight6.11 kg (13.47 lb)Product Dimensions\$30.0 mm × 415.1 mm x 70.0 mm (17.32" × 16.34" x 2.76") (W × D × H)Packaging Dimensions\$30.0 mm × 500.0 mm × 210.0 mm (20.87" × 19.69" x 8.27") (W × D × H)Operating Temperature-20"C to +60 "C (-4" F to +140 "F)Operating Temperature-20"C to +60 "C (-4" F to +140 "F)Operating Humidity10%-93% (RH)InstallationRack or desktopFCC: 47 CFR FC CPart15, SubpartB, Class A CF EMC: EN S5032:2015+A1:2020; EN EIC 61000-3- 2:2015+A1:2020; EN EI	Intelligent Alarm	video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution;				
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HDD Interface4 SATA ports, up to 16 TB.The maximum HDD capacity varies with environment temperature.eSATA1RS-2321RS-4851 (half-duplex serial communication)USB3(1 front USB 2.0 port, 2 rear USB 3.0 ports)HDMI2VGA2Network Port2 (10/100/1000 Mbps Ethernet port, RJ-45)GeneralPower Supply100-240 VAC, 50-60 HzPower ConsumptionTotal output of NVR is ≤ 13 W (without HDD)Net Weight6.11 kg (10.45 lb)Gross Weight6.11 kg (13.47 lb)Pockaging Dimensions330.0 mm × 500.0 mm × 210.0 mm (20.87" × 19.69" × 8.27")(W × D × H)Poperating Temperature-10 °C to +55 °C (14 °F to +131 °F)Operating Humidity10%-93% (RH)InstallationRack or desktopCertificationsFCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN S5032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 60130-3-3:2011+A1:2021	Alarm Input	16 channels				
HDD Interface varies with environment temperature. eSATA 1 RS-232 1 RS-485 1 (half-duplex serial communication) USB 3(1 front USB 2.0 port, 2 rear USB 3.0 ports) HDMI 2 VGA 2 Network Port 2 (10/100/1000 Mbps Ethernet port, RJ-45) General - Power Supply 100-240 VAC, 50-60 Hz Power Consumption Total output of NVR is ≤ 13 W (without HDD) Net Weight 4.74 kg (10.45 lb) Gross Weight 6.11 kg (13.47 lb) Product Dimensions $2300 \text{ mm x 500.0 mm x 210.0 mm (20.87" x 19.69" x 8.27")(W x D x H) Operating Temperature -10 °C to +55 °C (14 °F to +131 °F) Storage Temperature -20 °C to +60 °C (-4 °F to +140 °F) Operating Humidity 10%-93% (RH) Installation Rack or desktop Certifications FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN S5032:20121+A1:2020; EN IEC 61000-3-2201+A1:2021; EN 60303-42:2021; EN 55035:2017+A11:2027; EN 60303-42:2021; EN 55035:2017+A11:2027; EN 60303-42:2021; EN 55035:2017+A11:2027; EN 60303-42:2021; EN 55035:2017+A11:2027; EN 55035:2017+A11:202$	Alarm Output	6 channels (1-channel 12 V 1 A output)				
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Gross Weight 6.11 kg (13.47 lb) Product Dimensions 440.0 mm × 415.1 mm × 70.0 mm (17.32" × 16.34" × 2.76") (W ×D × H) Packaging Dimensions 530.0 mm × 500.0 mm × 210.0 mm (20.87" × 19.69" × 8.27") (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%-93% (RH) Installation Rack or desktop Certifications FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3-2:2019+A1:2021; EN 55035:2017+A11:2020; EN S0130-4:2011+A1:2014	Power Consumption	Total output of NVR is \leq 13 W (without HDD)				
Addition Addition Product Dimensions 440.0 mm × 415.1 mm × 70.0 mm (17.32" × 16.34" × 2.76") (W × D × H) Packaging Dimensions 530.0 mm × 500.0 mm × 210.0 mm (20.87" × 19.69" × 8.27")(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%-93% (RH) Installation Rack or desktop Certifications FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 5503:2015+A1:2020; EN IEC 61000-3-2:2019+A1:2021; EN 51030-4:2011+A1:2021; EN 51030-4:2011+A1:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014	Net Weight	4.74 kg (10.45 lb)				
Product Dimensions 2.76") (W ×D × H) Packaging Dimensions 530.0 mm × 500.0 mm × 210.0 mm (20.87" × 19.69" × 8.27")(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%–93% (RH) Installation Rack or desktop FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014	Gross Weight	6.11 kg (13.47 lb)				
Packaging Dimensions 8.27")(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%-93% (RH) Installation Rack or desktop Certifications FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014	Product Dimensions					
Storage Temperature -20 °C to +60 °C (-4 °F to +140 °F) Operating Humidity 10%-93% (RH) Installation Rack or desktop FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014	Packaging Dimensions					
Operating Humidity 10%–93% (RH) Installation Rack or desktop FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014	Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)				
Installation Rack or desktop FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014	Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)				
FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014	Operating Humidity	10%-93% (RH)				
CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- Certifications 2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014	Installation	Rack or desktop				
	Certifications	CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014				

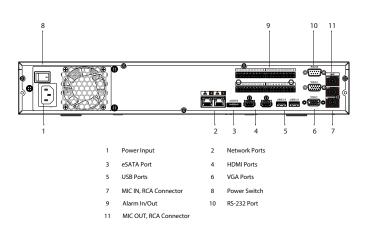
Ordering Information

-		
Туре	Model	Description
64 Channels WizSense NVR	DHI-NVR5464-AI/ANZ	64 Channels 1.5U 4HDD WizSense Network Video Recorder

Dimensions (mm[inch])



Panels



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