



DHI-NVR5464-EI

Dahua 64CH 4HDD 1.5U NETWORK 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

The NVR5000-EI series offers outstanding performance and high-grade 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

AcuPick

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

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.

- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- Max. decoding capability: 32 × 1080p@30 fps or 32 × 2MP@30 fps.
- · Max. 384/384/384 Mbps incoming/recording/outgoing bandwidth.
- · Supports IP cameras with a resolution up to 32 MP.
- · Supports AcuPick with up to 32 channels.
- · Supports N+M cluster,iSCSI.
- Al by Recorder supports 2-channel face detection and recognition, up to 20 face databases and 20,000 face images; 4-channel perimeter protection; 8-channel SMD Plus.
- Al by Camera supports face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
- · Supports EPTZ, and one-click arming and disarming.





















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 that in face database.

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.

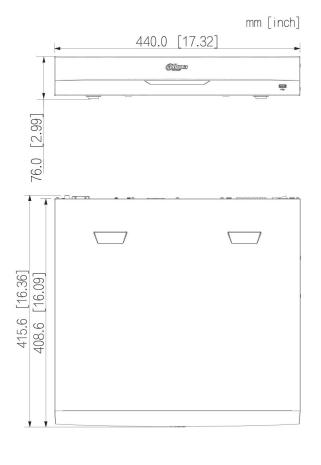
Metadata Performance of Aby Camera (Number of Channels) Metadata Performance of Aby Recorder (Number of Channels) Motor Vehicle Attributes (Performance of Aby Recorder (Number of Channels) All by Camera (Number of Channels) Motor Vehicle Attributes (Performance of Aby Recorder (Number of Channels) All channels (Number of Channels) All port (Number of Channels) All channels (Number of Channel	Technical Specification		Video Metadata	Video Metadata	
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All by Recorder All by Recorder All by Camera All channels (8 targets) Actinized Protection Perimeter Protection Actinized Protection Perimeter Protection Actinized Protection Perimeter Protection Actinized Prot	Operating System	Embedded Linux	Human Attributes	Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella	
Face detection, face recognition, perimeter protections Sub-Place Sub-Pl	Operating Interface	Web, Local GUI		License plate, plate color, vehicle body, vehicle model,	
AND Pair Face discretion, feer recognition, video metaletia (humann, more reflectes, und non-motion whiches), und non-motion whiches, und non-motion whiches could be counting. After visible develops, head map per counting. After visible develops, head of the counting	Al		Motor Vehicle Attributes		
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Perimeter Performance Al by Recorder (Number of Channels) A channels, 10 NS rules for each channel A channels, 10 NS rules for each channel A channels, 20 NS rules for each channel A channels, 20 NS rules for each channel A channels, 20 NS rules for each channel A channels, 384 Mbps recording and 384 Mbps rules and 384 Mbps rule	,	Max. 32-channel, 1 combined event per channel/s		· · · · · · · · · · · · · · · · · · ·	
by Recorder (Number of Channels) A channels, 10 IVS rules for each channel A disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps incoming, 200 Mbps recording and 384 Mbps coupling. All channels (16 targets/s) All disabled: 2 channel 32 MPg25 Mpg, 4 Mpg16 MPg12 Mpg, MPg. MPg. MPg. MPg. MPg. MPg. MPg. MPg.	Perimeter Protection		Audio and Video	Audio and Video	
Channels) Perimeter Performance of All channels (15 targets/s) Face Detection Face Attributes Bender, age group) glasses; expressions; face mask; beard Face Attributes Bender, age group) glasses; expressions; face mask; beard Face Detection Face Recognition Lip to 20 face databases with 20,000 images, with a total capacity of 2.5 G. Name, genders, birthday, address, credential type, credential			Access Channel	64 channels	
Face Detection Face Attributes Gender; age group; glasses; expressions; face mask; beard Face Detection Face Attributes Gender; age group; glasses; expressions; face mask; beard Face Detection Face Detection Face Detection Face Detection Face Detection Performance of Al by Recorder (Number of Channels S) Face Detection Face Detection Performance of Al by Face Recognition Face Recognition Performance of Al by Face Recognition Performance of Al by Face Recognition Performance of Al by Face Detection Performance of Al by Face Detection Performance of Al by Face Recognition P	Channels) Perimeter Performance of		Network Bandwidth	and 384 Mbps outgoing Al enabled: 200 Mbps incoming, 200 Mbps recording	
Face Attributes Gender; age group; glasses; expressions; face mask; beard Face Detection Face Detection Face Detection Recorder (Number of Alby Camera (Number of Channels) Face Detection Face Detecti	Channels)	All channels (16 targets/s)	Resolution		
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Camera (Number of Channels) Face Recognition Up to 20 face databases with 20,000 images, with a total capacity of 2.5 G. Name, gender, birthday, address, credential Nye, credential Nye, credential Nye, countries & regions and state can be added to each face images. Face Recognition 1. 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s Recorder (Number of Channels) 1. 6-channel FD (by recorder), video stream: 12 face images/s 2. 2-channe FD (by recorder), video stream: 12 face images/s 2. 2-channe FD (by recorder), video stream: 12 face images/s Audio Compression SMD Plus by Recorder 8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change SMD Plus by Camera All channels (32 targets/s) 16 channels (32 targets/s) 17 ideo Output Video Output Video Output Video Output Wideo Output Wideo Output Wideo Output Homissa0 v 2160, 1920 v 1080, 1280 v 1024, 1280 v 720 Heterogeneous video source output for VGA1 and HDMI: Simultaneous video source output for VGA2 and HDMI: Simultaneo	Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)	second separation,		
Face Recognition Face Database Capacity Up to 20 face databases with 20,000 images, with a total capacity of 2,5 G. Name, gender, birthday, address, credential type, credenti	Camera (Number of	16 channels		2 VGA, 2 HDMI VGA:1920 × 1080, 1280 × 1024, 1280 × 720	
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Performance of Al by Camera (Number of Channels) 16 channels Audio Compression Audio Compression Audio Compression France of Al by Camera (Number of Channels) SMD Plus SMD Plus SMD Plus by Recorder SMD Plus by Recorder All channels (32 targets/s) Performance of Al by Video Compression Audio Compression Audio Compression Audio Compression Smart H.265+; H.265; Smart H.264+; H.264; MJPEG Audio Compression Audio Compression Smart H.265+; H.265; Smart H.264+; H.264; MJPEG Audio Compression Audio Compression Server; BCMTP; UPM; G726 Network Network Network Network Protocol Networ	Recorder (Number of	2. 2-channe FD (by recorder) + FR (by recorder), video	Third-party Camera Access		
Camera (Number of Channels) Smart H.265+; H.265; Smart H.264; MJPEG Audio Compression Audio Compression Smart H.265+; H.265; Smart H.264; MJPEG Audio Compression G.711a; G.711u; PCM; G726 Network SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Camera All channels (32 targets/s) Audio Compression Network Network Network Network Network Network Protocol Mobile Phone Access iOS; Android	-		Compression Standar	Compression Standard	
SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder All channels (32 targets/s) SMD Plus by Camera All channels (32 targets/s) Addio Compression SMD Plus by Retwork Network Network Network Network Protocol Network Protocol Mobile Phone Access iOS; Android		16 channels	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
SMD Plus by Recorder 8 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change Network Protocol Network Protocol Network Protocol All channels (32 targets/s) Mobile Phone Access Network Protocol Negistration; iSCSI Mobile Phone Access iOS; Android	Channels)		Audio Compression	G.711a; G.711u; PCM; G726	
SMD Plus by Recorder vehicle , reducing false alarms caused by leaves, rain and lighting condition change Network Protocol Nobile Phone Access iOS; Android	SMD Plus		Network		
Mobile Phone Access iOS; Android	·	vehicle , reducing false alarms caused by leaves, rain and lighting condition change	Network Protocol	SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto	
Interoperability ONVIF 23.12(Profile T; Profile S; Profile G); CGI; SDK	SIMD Plus by Camera	All cnannels (32 targets/s)	Mobile Phone Access		
			Interoperability	ONVIF 23.12(Profile T; Profile S; Profile G); CGI; SDK	

Browser	Chrome; IE; Safari; Edge; Firefox	
Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes	
Recording Playback		
Multi-channel Playback	Up to 16 channels	
Record Mode	General, motion detection; intelligent; alarm; POS	
Backup Method	USB device and network	
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
Storage		
Disk Group	YES	
Alarm		
General Alarm	Motion detection; local alarm; alarm box; camera external alarm; network alarm; scene changing; PIR alarm; thermal alarm	
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception	
Intelligent Alarm	Face detection; perimeter protection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map	
Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; email	
Port		
Audio Input	1-channel RCA	
Audio Output	2-channel RCA	
Alarm Input	16 channels	
Alarm Output	6 channels (1-channel 12 V 1 A output)	
Disk Interface	4 SATA ports, each disk can contain up to 20 TB. This limit varies depending on the 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)	

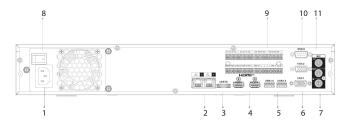
Product Dimensions	440.0 mm × 415.1 mm × 70.0 mm (17.32" × 16.34" × 2.76") (W ×D × H)	
Packaging Dimensions	530.0 mm × 500.0 mm × 210.0 mm (20.87" × 19.69" × 8.27")(W × D × H)	
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)	
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Operating Humidity	10%–93% (RH), non-condensing	
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 CE-LVD: EN 62368-1:2014	

Ordering Information					
Туре	Model	Description			
NETWORK VIDEO RECORDER	DHI-NVR5464-EI	Dahua 64CH 4HDD 1.5U NETWORK VIDEO RECORDER			

Dimensions (mm[inch])



Panels



- 1 Power Input
- eSATA Port
- 5 USB Ports
- 7 AUDIO IN, RCA Connector
- 9 Alarm In/Out
- 11 AUDIO OUT, RCA Connector
- 2 Network Ports
- 4 HDMI Ports
- 6 VGA Ports
- 8 Power Switch
- 10 RS-232 Port