

EN-NVR764AI

64 Channels 1.5U 4HDDs WizSense 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.

Security

Audio/Video Encrypted Transmission (Private Protocol, RTSP over TLS); Trusted Protection (Trusted Update, Trusted Boot, Trusted Execute); Security Warning (Security Exception, Invalid Access); Attack Defense (Firewall, Account Lockout, Anti-DoS Attack); Firmware Encryption; 802.1x; Secure Shell; Configuration Files Security (Encrypted Storage of Configuration, Encrypted Exporting of Configuration); CA Certificate; Log Security; Session Security (Auto Logout after Timeout, Brute-force Access Prevention, Anti-hijacking)

Functions

AcuPick

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

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.

- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- \cdot Max. decoding capability: 32 × 1080p@30 fps or 32 × 2MP@30 fps.
- \cdot Max. 384 Mbps incoming/recording/outgoing bandwidth.
- \cdot Supports IP cameras with a resolution up to 32 MP.
- \cdot Support AcuPick with up to 32 channels.
- \cdot Support N+M cluster.
- · Support 64 user
- 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 2.4.



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.

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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Non-motor Vehicle **Technical Specification** Vehicle model, vehicle color, number of persons, helmet. Attributes System Vehicle License Plate Comparison Main Processor Industrial-grade processor ANPR by Camera (Number 8 channels of Channels) Embedded Linux **Operating System** License Plate Database 1. Create up to 20,000 plate numbers. Web, Local GUI **Operating Interface** Capacity 2. Blocklist and allowlist AI Audio and Video Face detection; face recognition; perimeter protection; AI by Recorder SMD Plus Access Channel 64 Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); Al disabled: 384 Mbps incoming, 384 Mbps recording perimeter protection; SMD Plus; stereo analysis; crowd AI by Camera and 384 Mbps outgoing Network Bandwidth distribution; people counting; ANPR; vehicle density; AI enabled: 200 Mbps incoming, 200 Mbps recording and heat map 200 Mbps outgoing AcuPick AI by Camera + 32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; Max. 32-channel, 1 combined event per channel/s Resolution Recorder 720p: D1: CIF: QCIF **Perimeter Protection** AI disabled: 2-channel 32 MP@25 fps; 2-channel 24 MP@25 fps; Perimeter Performance AI 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps; by Recorder (Number of 4 channels, 10 IVS rules for each channel 8-channel 8 MP@30 fps; 12-channel 5 MP@30 fps; Channels) 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps **Decoding Capability** AI enabled: Perimeter Performance of 1-channel 32 MP@25 fps; 1-channel 24 MP@25 fps; AI by Camera (Number of 16 channels 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps; Channels) 6-channel 8 MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4 MP@30 fps; 24-channel 1080p@30 fps **Face Detection** Gender; age group; glasses; expressions; face mask; 2 VGA, 2 HDMI Face Attributes beard VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × Face Detection 720 Performance of AI by Video Output 2 channels (up to 12 face images/s each channel) Heterogeneous video source output for HDMI1 and Recorder (Number of HDMI2 Channels) Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2 Face Detection Performance of AI by 16 channels Main screen: 1/4/8/9/16/25/36/64 Camera (Number of Multi-screen Display Sub screen: 1/4/8/9/16 Channels) Third-party Camera ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; **Face Recognition** Access Hanwha Up to 20 face databases with 20,000 images, with a **Compression Standard** total capacity of 2.5 G. Name, gender, birthday, address, Face Database Capacity credential type, credential No., countries & regions and Video Compression Smart H.265+; H.265; Smart H.264+; H.264; MJPEG state can be added to each face image Audio Compression G.711a; G.711u; PCM; G726 Face Recognition 1. 16-channel FD (by camera) + FR (by recorder), image Performance of AI by stream: 16 face images/s Network Recorder (Number of 2. 2-channe FD (by recorder) + FR (by recorder), video stream: 12 face images/s Channels) HTTP; HTTPS; TCP/IP; IPv4/IPv6; UDP; SNMP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPoE; FTP; DDNS; Alarm Face Recognition Network Protocol Server; IP Search (Supports Dahua IP camera, DVR, NVS, Performance of AI by 16 channels etc.); Multicast; P2P; Auto Registration; iSCSI Camera (Number of Channels) Mobile Phone Access iOS; Android **SMD** Plus ONVIF 22.12 (Profile T; Profile S; Profile G); CGI; SDK Interoperability 8 channels: Secondary filtering for human and motor SMD Plus by Recorder vehicle, reducing false alarms caused by leaves, rain and Browser Chrome;IE;Safari;Edge;Firefox lighting condition change Multi-address mode, load balance, fault tolerance and SMD Plus by Camera 16 channels Network Mode other network port binding modes Video Metadata **Recording Playback** Metadata Performance of Multi-channel Plavback Up to 16 channels AI by Camera (Number of 8 channels Channels) Record Mode General, motion detection; intelligent; alarm; POS Top color, top type, bottom color, bottom type, hat, bag, Human Attributes **Backup Method** USB device and network age, gender and umbrella License plate, plate color, vehicle body, vehicle model, Instant playback, general playback, event playback, tag Playback Mode vehicle logo, calling, seatbelt, vehicle interior, vehicle Motor Vehicle Attributes playback, smart playback (face and motion detection) registration location.

https://kbt.net.vn/product/en-nvr764ai/

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Storage

Rev 002.000

Storage			Order
Disk Group	YES		Туре
Alarm			64 Chan WizSens
General Alarm	Motion detection; privacy masking; local alarm		
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception	Dimer	
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		Ť
Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; email	[92	
Port			2
Audio Input	1-channel RCA	70 0 [2 76]	
Audio Output	2-channel RCA	-	
Alarm Input	16 channels		1 1
Alarm Output	6 channels (1-channel 12 V 1 A output)		
HDD Interface	4 SATA ports, each disk can contain up to 20 TB. Thislimit varies depending on the environment temperature.		
eSATA	1		34J)9J
RS-232	1		16 (16 (
RS-485	1 (half-duplex serial communication)		415 1 [16 34. 408 6 [16 09J
USB	3(1 front USB 2.0 port, 2 rear USB 3.0 ports)		415
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 \leq 13 W (without HDD)		Panels
Net Weight	4.74 kg (10.45 lb)		
Gross Weight	6.11 kg (13.47 lb)		8
Product Dimensions	440.0 mm × 415.1 mm x 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)		<u>j</u>
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	1	
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 CE-LVD: EN 62368-1:2014		
	erved. Design and specifications are subject to change without notice. nd information mentioned in the document are only for reference, and might differ	from the ac	tual product.

Ordering Information

Туре	Model	Description
64 Channels WizSense NVR	EN-NVR764AI	64 Channels 1.5U 4HDDs WizSense Network Video Recorder

Dimensions (mm[inch])



