

32 Channels 2U 8HDD WizSense Network Video Recorder





Launched by Blue | Line 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 Blue | Line 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 Blue | Line 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 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.

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
- · Max. decoding capability: 32 × 1080p@30 fps or 32 × 2MP@30 fps.
- · Max. 384 Mbps incoming/recording/outgoing bandwidth.
- · Support AcuPick with Max. 16-Channel.
- · Support N+M cluster.
- · Support Raid0/1/5/6/10.
- · Al by recorder: 2-channel face detection and recognition, 4-channel perimeter protection, and 8-channel SMD Plus.
- · AI by camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
- · Security baseline 2.3.



Face Recognition

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

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, 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, 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.

registration location.



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nanneis 20 8HDD Wizsense Network VI			Non-motor Vehicle		
Technical Specification			Attributes	Vehicle model, vehicle color, number of persons, helmet.	
System	System			Vehicle License Plate Comparison	
Main Processor	Industrial-grade processor		ANPR by Camera (Number of Channels)	8 channels	
Operating System	Embedded Linux		· ·		
Operating Interface	Web, Local GUI		License Plate Database Capacity	 Create up to 20,000 plate numbers. Blocklist and allowlist 	
Al			Audio and Video		
AI by Recorder	Face detection; face recognition; perimeter protection; SMD Plus		Access Channel	32	
Al by Camera	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map		Network Bandwidth	Al disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing Al enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing	
AcuPick AI by Camera + Recorder	Max. 16-channel, 1 combined event per channel/s		Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF	
Perimeter Protection				AI disabled: 2-channel 32 MP@20 fps; 2-channel 24 MP@20 fps;	
Perimeter Performance AI by Recorder (Number of Channels) Perimeter Performance of	4 channels, 10 IVS rules for each channel		Decoding Capability	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;	
AI by Camera (Number of Channels)	16 channels			4-channel 8 MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4 MP@30 fps; 24-channel 1080p@30 fps	
Face Detection Face Attributes	Gender; age group; glasses; expressions; face mask;		Video Output	2 VGA, 2 HDMI VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×	
	beard	o atpat	720 Simultaneous video source output for VGA1 and HDMI1		
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)		Multi-screen Display	Simultaneous video source output for VGA2 and HDMI2 Main screen: 1/4/8/9/16/25/36 Sub screen: 1/4/8/9/16	
Face Detection Performance of AI by	16 channels		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung	
Camera (Number of Channels)			Compression Standard		
Face Recognition			Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
ruce necognition	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		
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	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UDP; SNMP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPoE; FTP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; iSCSI	
Channels)	stream: 12 face images/s		Mobile Phone Access	iOS; Android	
Face Recognition Performance of AI by Camera (Number of Channels)	16 channels		Interoperability	ONVIF 22.06 (Profile T; Profile S; Profile G); CGI; SDK	
			Browser	Chrome;IE;Safari;Edge;Firefox	
SMD Plus			Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes	
SMD Plus by Recorder vehicle , reducing false alarms caused b	8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition phases.		Recording Playback		
SMD Blue by Camora	lighting condition change 16 channels		Multi-channel Playback	Up to 16 channels	
SMD Plus by Camera	10 Challies		Record Mode	General, motion detection; intelligent; alarm; POS	
Video Metadata			Backup Method	USB device and network	
Metadata Performance of Al by Camera (Number of Channels)	8 channels		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
Human Attributes	Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella		Storage		
	License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location.		Disk Group	Yes	
Motor Vehicle Attributes			RAID	RAID 0/1/5/6/10	



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Alarn

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
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
Dort	

Port

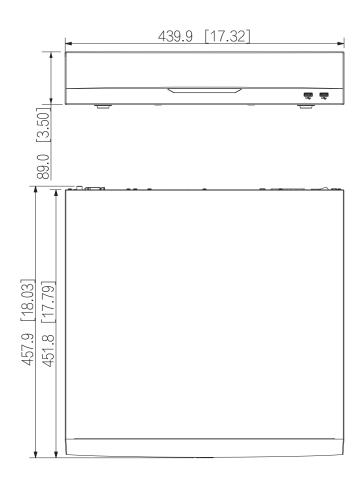
Audio Input	1-channel RCA
Audio Output	2-channel RCA
Alarm Input	16 channels
Alarm Output	8 channels (1-channel 12 V 1 A output)
HDD Interface	8SATA ports, each disk can contain up to 16 TB. This limit varies depending on the environment temperature.
eSATA	1
RS-232	1
RS-485	$2 \ (1 \ port for \ half-duplex \ serial \ communication, \ 1 \ port for \ full-duplex \ serial \ communication)$
USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)
HDMI	2
VGA	2
Network Port	2(10/100/1000 Mbps Ethernet port, RJ-45)

General

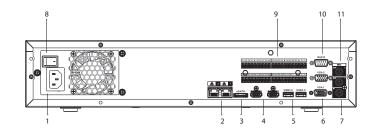
Power Supply	100–240 VAC, 50-60 Hz
Power Consumption	Total output of NVR is ≤ 13 W (without HDD)
Net Weight	6.4 kg (14.11 lb)
Gross Weight	9.01 kg (19.86 lb)
Product Dimensions	439.9 mm × 457.9 mm x 89.0 mm (17.32" × 18.03" × 3.50") (W ×D × H)
Packaging Dimensions	570.0 mm × 570.0 mm x 226.0 mm (22.44" × 22.44" × 8.90") (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 CE-LVD: EN 62368-1: 2014

Ordering Information Type Model Description 32 Channels WizSense NVR iNVR538-32-4K Secondary Video Recorder

Dimensions (mm[inch])



Panels



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