iNVR432HP6-16-4KE

WINIC

16CH 1U 16PoF 2HDDs WizSense Network Video Recorder





Launched by Blue | Line 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 advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

iNVR4XXX-4KE series is a new generation of network recorders that offers powerful decoding capabilities, and strong bandwidth. It features high-precision face recognition, perimeter protection, and SMD (Smart Motion Detection), which can distinguish target vehicles and humans from other types in real time. When connected with select IPC cameras, Quick Pick technology becomes available, allowing human and vehicle targets to be easily searched for and picked out. This network recorder is not only cost-effective, but also compatible with a wide variety of third-party devices, making it a great choice for small and medium-sized businesses.

Functions

Face Recognition

Face Recognition technology extracts the features of captured faces and compares them with that in face database.

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.

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format
- Access, storage or forwarding at 256 Mbps (180 Mbps when Al function enabled)
- Max. decoding capability: 16 × 1080p@30 fps. Supports adaptive decoding
- Al by NVR: 1-channel face detection and recognition; 2-channel perimeter protection; up to 10 face databases and 20,000 face images; 4-channel SMD Plus
- AI by Camera: Face detection and recognition, perimeter protection; SMD Plus; people counting; stereo analysis; heat map
- · Connected to the third-party network cameras
- · Security baseline 2.3



















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.

Al Search

With AI search, operators can search for videos by the attributes of targets and event types, which helps them to quickly and efficiently investigate where and when targets appeared and events took place.

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.

Quick Pick

Quick Pick technology can enable users to quickly pick up the human/ vehicle targets that they are interested in, which facilitates retrieval from SMD events.

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Technical Specification	n
System	
Main Processor	Industrial-grade processor
Operating System	Embedded Linux
Operating Interface	Web, Local GUI
AI	
AI by Recorder	Face detection, face recognition, perimeter protection, and SMD Plus;
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map
Perimeter Protection	
Perimeter Performance Al by Recorder (Number of Channels)	2 channels, 10 IVS rules for each channel
Perimeter Performance of Al by Camera (Number of Channels)	All channels (8 targets/s)
Face Detection	
Face Attributes	Gender; age group; glasses; expressions; face mask;
	beard
Face Detection Performance of AI by Recorder (Number of Channels)	1 channel (up to 12 face images/s each channel)
Face Detection	All channels (8 targets/s)
Performance of Al by Camera (Number of Channels)	
Face Recognition	
. dec Hees B. H. e.	Up to 10 face databases with 20,000 images, with a
Face Database Capacity	total capacity of 2.5 G. Name, gender, birthday, address.
Face Recognition	8-channel FD (by camera) + FR (by recorder),image
Performance of AI by Recorder (Number of Channels)	stream: 12 face images/s 1-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s
Face Recognition	
Performance of AI by Camera (Number of	All channels (8 targets/s)
Channels)	
SMD Plus	
SMD Plus by Recorder	4 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 (16 targets/s)
Audio and Video	
Access Channel	16 channels
Network Bandwidth	Al disabled: 256 Mbps incoming, 256 Mbps recording and 256 Mbps outgoing Al enabled: 180 Mbps incoming, 180 Mbps recording and 180 Mbps outgoing
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tecorder				
Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF			
Decoding Capability	Al disabled: 2-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 4-channel 6 MP@30 fps; 6-channel 5 MP@30 fps; 8-channel 4 MP@30 fps; 16-channel 1080p@30 fps Al enabled: 1-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 3-channel 6 MP@30 fps; 4-channel 5 MP@30 fps; 6-channel 4 MP@30 fps; 12-channel 1080p@30 fps; 16-channel 720p@30 fps			
Video Output	1 HDMI, 1 VGA HDMI: 3840×2160 , 1920×1080 , 1280×1024 , 1280×720 VGA: 1920×1080 , 1280×1024 , 1280×720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.			
Multi-screen Display	1st Screen: 1/4/8/9/16 2nd Screen: 1/4/8/9/16			
Third-party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon			
Compression Standard				
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG			
Audio Compression	G.711a; G.711u; PCM; G726			
Network				
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR; NVS; etc.); P2P; auto register			
Mobile Phone Access	iOS; Android			
Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK			
Browser	Chrome; IE9 and later; Firefox			
Recording Playback				
Multi-channel Playback	Up to 16 channels			
Record Mode	General, motion detection; intelligent; alarm			
Backup Method	USB device and network			
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback			
Storage				
Disk Group	Yes			
Alarm				
General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm			
Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception			
Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map			
Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email			
Port				

1-channel RCA



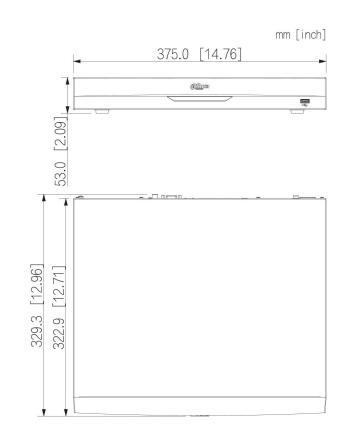
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Audio Output	1-channel RCA			
Alarm Input	4 channels			
Alarm Output	2 channels			
Disk Interface	$2\mbox{SATA}$ ports, up to $16\mbox{TB.The}$ maximum HDD capacity varies with environment temperature.			
RS-232	1			
USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)			
HDMI	1			
VGA	1			
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)			
PoE Port	16 ports, 10/100 Mbps, IEEE 802.3 af/at			
General				
Power Supply	100–240 VAC, 47-63 Hz			
Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 130W,the maximum output power of asingle port is 25.5W			
Net Weight	2.60 kg (5.73 lb)			
Gross Weight	3.80 kg (8.38 lb)			
Product Dimensions	375.0 mm × 329.3 mm x 53.0 mm (14.76" × 12.96" × 2.09") (W × L × H)			
Packaging Dimensions	451.0 mm × 425.0 mm × 147.0 mm (17.75" × 16.73" × 5.79") (W × L × 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			

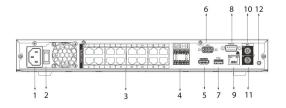
Ordering Information			
Туре	Model	Description	
NETWORK VIDEO RECORDER	iNVR432HP6-16-4KE	16CH 1U 16PoE 2HDDs WizSense Network Video Recorder	

CE-LVD: EN 62368-1:2014

Dimensions (mm[inch])



Panels



- Power Input
- 3 PoE Ports
- 5 HDMI Port7 USB Port
- 9 Network Port
- 8 1
- 10
- 11 AUDIO IN, RCA Connector
- 4 Alarm In/Out 6 VGA Port
- 8 RS-232 Port
- 10 AUDIO OUT, RCA Connector
- 12 Ground