

PIX-NVR327KI

32 Channels 1.5U 4HDD Network Video Recorder



- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
- 32-channel 1080p self-adaptive decoding capability.
- Max. 384 Mbps incoming/recording/outgoing bandwidth.
- AI 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.



Series Overview

The NVR327KI 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 Pixvideo'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).

SPerimeter 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

Pixvideo 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

Pixvideo 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, Pixvideo 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, Pixvideo 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 Capacity	1. Create up to 20,000 plate numbers. 2. Blocklist and allowlist
Operating System	Embedded Linux	Audio and Video	
Operating Interface	Web, Local GUI	Access Channel	32
AI		Network Bandwidth	AI disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing AI enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing
AI by Recorder	Face detection; face recognition; perimeter protection; SMD Plus	Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF
AI 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	Decoding Capability	AI 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 AI 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 1080p@30 fps
Perimeter Protection		Video Output	AI disabled: 2-channel VGA, 2-channel HDMI video output. Heterogeneous video source output for HDMI1 and HDMI2 Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2 Supports 4K display
Perimeter Performance AI by Recorder (Number of Channels)	4 channels, 10 IVS rules for each channel	Multi-screen Display	Main screen: 1/4/8/9/16/25/36 Sub screen: 1/4/8/9/16
Perimeter Performance of AI by Camera (Number of Channels)	16 channels	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung
Face Detection		Compression Standard	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)	Audio Compression	G.711a; G.711u; PCM; G726
Face Detection Performance of AI by Camera (Number of Channels)	16 channels	Network	
Face Recognition		Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; RTSP; 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
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, credential No., countries & regions and state can be added to each face image.	Mobile Phone Access	iOS; Android
Face Recognition Performance of AI by Recorder (Number of Channels)	1. 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s 2. 2-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s	Interoperability	ONVIF 21.12(Profile T; Profile S; Profile G); CGI; SDK
Face Recognition Performance of AI by Camera (Number of Channels)	16 channels	Browser	Chrome IE 9 or later Firefox
SMD Plus		Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes
SMD Plus by Recorder	8 channels: Secondary filtering for human and motor 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 Channels)	8 channels	Backup Method	USB device and network
Human Attributes	Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella	Playback Mode	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.	Storage	
Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.	Disk Group	YES

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Alarm

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

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)
HDD Interface	4 SATA ports, up to 16 TB. The maximum HDD capacity 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)

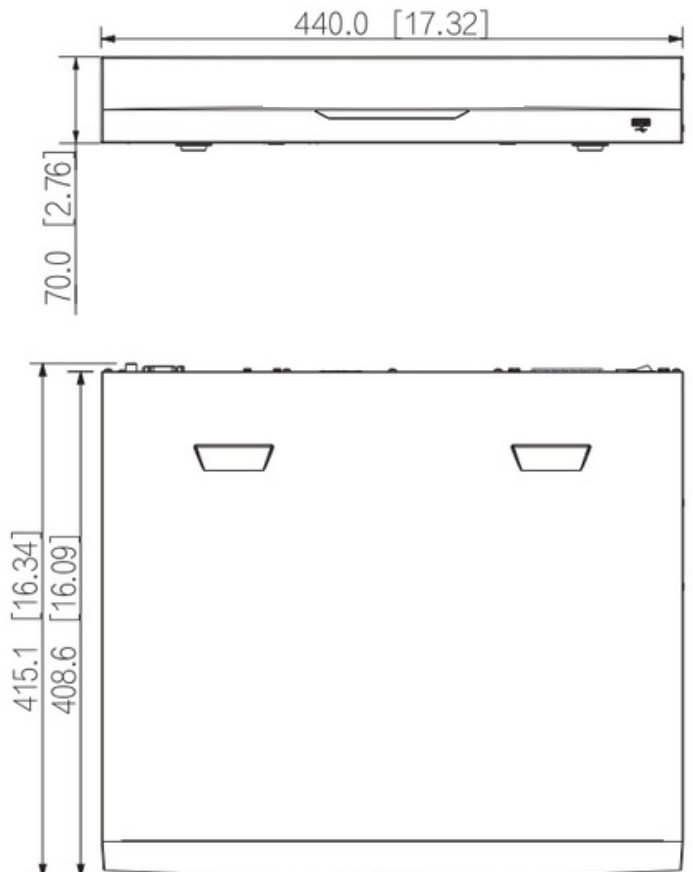
General

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	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 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

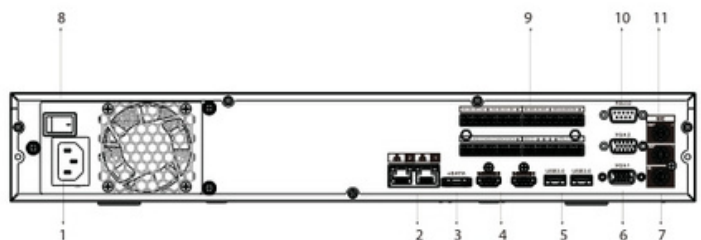
Ordering Information

Type	Model	Description
32 Channels WizSense NVR	PIX-NVR327KI	32 Channels 1.5U 4HDD WizSense Network Video Recorder

Dimensions (mm[inch])



Panels



- | | |
|---------------------------|-----------------|
| 1 Power Input | 2 Network Ports |
| 3 eSATA Port | 4 HDMI Ports |
| 5 USB Ports | 6 VGA Ports |
| 7 MIC IN, RCA Connector | 8 Power Switch |
| 9 Alarm In/Out | 10 RS-232 Port |
| 11 MIC OUT, RCA Connector | |