

NVR2104HS-P-12

4 Channel Compact 1U 4PoE 1HDD WizSense Network Video Recorder



Functions

This AI network video recorder is a highly cost-effective economical product, providing functions such as local live view, multi-screen display, real-time storage on local HDD, fast operation by mouse, and remote management and control. This product is suitable for face detection and recognition at entrances/exits, and perimeter protection of people and vehicles.

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

Face Recognition technology extracts the features of captured faces and compares them with those in face database to recognize the person identity

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

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.

AI Search

Support AI search by metadata of different targets or uploading face pictures to device and comparing them with recorded faces by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeared.

Smart Fan

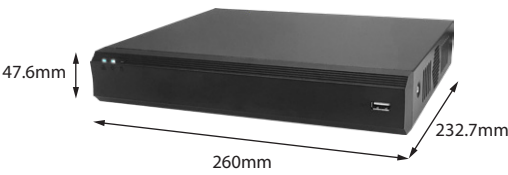
The NVR is equipped with a smart fan to achieve high cooling efficiency. It automatically turns on or turns off according to CPU and ambient temperature. The fan is long-lasting and low noise, reducing maintenance costs and improving the user experience.

System	
Main Processor	Industrial-Grade Embedded Processor
Operating System	Embedded Linux
Operation Interface	Web; Local GUI
AI	
AI by Camera	Face Detection; Face Recognition; Perimeter Protection; SMD Plus
AI by Device	Face Detection; Face Recognition; Perimeter Protection; SMD Plus
Perimeter Protection	
Perimeter Performance of AI by Device (Number of Channels)	1
Perimeter Performance of AI by Camera (Number of Channels)	4
Face Detection	
Face Attributes	6 Attributes: Gender; Age Group (6); Glasses; Expressions (8); Mouth Mask; Beard
Face Detection Performance of AI by Device (1080P) (Number of Channels)	1 (Up to 12 Face Images/Second)
Face Detection Performance of AI by Camera (Number of Channels)	4
Face Recognition	
Face Database Capacity	Up to 10 Face Databases With 5,000 Images
Face Recognition Performance of AI by Device (1080P)	1 (Up to 4 Face Images/Second)
Face Recognition Performance of AI by Camera (Number of Channels)	4
SMD Plus	
SMD Plus by Device	4
SMD Plus by Camera	4-Channel SMD Plus (AI by camera): Detects Tripwire and Intrusion of Human or Vehicle; Filters False Alarms Caused by Leaves, Raindrops and Change of Brightness Away
Video	
Access Channel	4 Channels
Network Bandwidth	80 Mbps for Access, 80 Mbps for Storage and 60 Mbps for Forwarding.
Resolution	12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1
Decoding Capability	AI Disabled: 1-Channel 12MP@30 fps; 1-Channel 8MP@30 fps 2-Channel 5MP@30 fps; 3-Channel 4MP@30 fps; 6-Channel 1080p@30 fps
	AI enabled: 1-Channel 8MP@30 fps; 1-Channel 5MP@30 fps; 2-Channel 4MP@30 fps; 4-Channel 1080p@30 fps
Video Output	1 × VGA, 1 × HDMI (Simultaneous)
Multi-Screen Display	1, 4 Views
Third Party Camera Access	Onvif

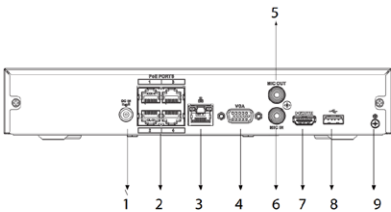
Compression	
Video	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Audio	PCM; G711A; G711U; G726
Network	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); P2P; Auto Registration
Mobile Phone Access	Android; iOS
Interoperability	ONVIF (Profile T; Profile S; Profile G); CGI; SDK
Browser	Chrome; IE9 or Later; Firefox
Record Playback	
Multi-Channel Playback	Up to 4 Channels
Record Mode	Manual Record; Alarm Recordings; Motion Detection Recordings; Scheduled Recordings
Storage	Local HDD and Network
Backup	USB Device
Playback Function	1. Play; Pause; Stop; Fast Forward; Fast Backward; Rewind; Play by Frame 2. Full Screen; Backup (Vide Clip/File); Partially Zoom In; Audio On/Off
Alarm	
General Alarm	Motion Detection; Privacy Masking; Video Loss; PIR Alarm; IPC Alarm
Anomaly Alarm	Camera Offline; Storage Error; Disk Full; IP Conflict; MAC Conflict; Login Lock; Cyber Security Exception
Intelligent Alarm	Face Detection; Face Recognition; Perimeter Protection (Intrusion and Tripwire); IVS; SMD Plus
Alarm Linkage	Recording; Snapshot; Buzzer; Log; Preset; Email; Tour
External Port	
HDD	1 SATA Port, Up to 10 TB. The Maximum HDD Capacity Varies with Environment Temperature
USB	1 × Front USB2.0; 1 × Back USB2.0
HDMI	1 (Max. Resolution: 4K)
VGA	1
Network	1 × RJ-45, 10/100/1000 Mbps
PoE	4 × PoE ports, 10/100 Mbps
RCA Input	1
RCA Output	1
General Parameter	
Power Supply	53VDC, 1.13A
Power Consumption	Total Output of NVR is ≤ 10W (Without HDD) Total Output Power of PoE is 38W, The Maximum Output Power of A single Port is 25.5W
Net Weight	0.86 kg (1.90 lb)
Gross weight	1.86 kg (4.10 lb)
Product Dimensions	260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87") (W × L × H)
Package Dimensions	117 mm × 373 mm × 307 mm (4.61" × 14.69" × 12.09") (W × L × H)
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Storage Temperature	0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity	10%–93%
Storage Humidity	30%–85%
Operating Altitude	3,000 m (9,842.52 ft)
Installation	Desktop

NVR2104HS-P-I2

Dimensions (mm)



Panels



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|---|--------------------------|---|-------------------------|
| 1 | Power Input | 2 | PoE Ports |
| 3 | Network Port | 4 | VGA Port |
| 5 | AUDIO OUT, RCA Connector | 6 | AUDIO IN, RCA Connector |
| 7 | HDMI Port | 8 | USB Port |
| 9 | Ground | | |