

DHI-NVR2108HS-8P-I2

8 Channel Compact 1U 8PoE 1HDD WizSense Network Video Recorder



WizSense

Launched by Dahua 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 Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

This AI network video recorder is a highly cost-effective 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 and exits, and perimeter protection of people and vehicles.

Functions

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

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

- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format
- Max. decoding capability: 6 × 1080p@30 fps. Supports adaptive decoding
- 1-channel face detection and recognition (AI by NVR); 1-channel perimeter protection (AI by NVR); up to 10 face databases and 5,000 face images; 4-channel SMD Plus (AI by NVR);
- AI by camera: Face detection and recognition, perimeter protection, and SMD Plus
- Connected to the third-party network cameras
- Security baseline 2.1



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, 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.

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.

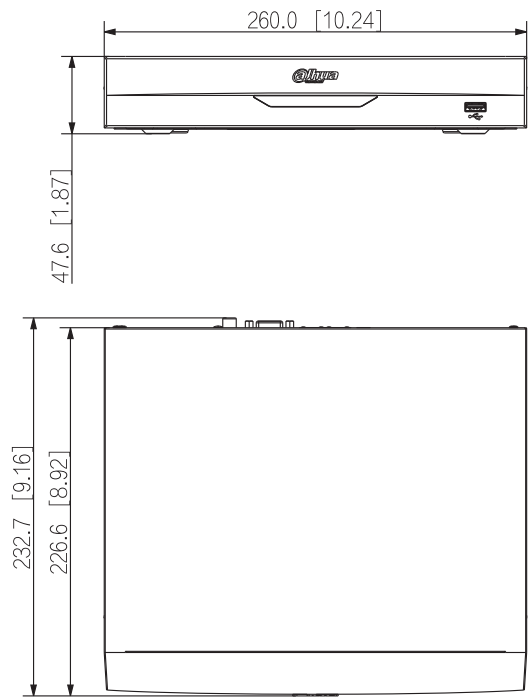
Technical Specification			
System		Video Output	1 × VGA, 1 × HDMI (simultaneous)
Main Processor	Industrial-grade embedded processor	Multi-screen Display	1, 4, 8, 9 views
Operating System	Embedded Linux	Third Party Camera Access	Onvif
Operation Interface	Web; local GUI	Compression	
AI		Video	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus	Audio	PCM; G711A; G711U; G726
AI by Device	Face detection; face recognition; perimeter protection; SMD Plus	Network	
Perimeter Protection		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
Perimeter Performance AI by Device (Number of Channels)	1	Mobile Phone Access	Android; iOS
Perimeter Performance of AI by Camera (Number of Channels)	4	Interoperability	ONVIF (profile T; profile S; profile G); CGI; SDK
Face Detection		Browser	Chrome; IE9 or later; Firefox
Face Attributes	6 attributes: Gender; age group (6); glasses; expressions (8); mouth mask; beard	Record Playback	
Face Detection Performance of AI by Device (1080P) (Number of Channels)	1 (up to 12 face images/second)	Multi-channel Playback	Up to 8 channels
Face Detection Performance of AI by Camera (Number of Channels)	5	Record Mode	Manual record; alarm recordings; motion detection recordings; scheduled recordings
Face Recognition		Storage	Local HDD and network
Face Database Capacity	Up to 10 face databases with 5,000 images	Backup	USB device
Face Recognition Performance of AI by Device (1080P) (Number of Channels)	1 (up to 4 face images/second)	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
Face Recognition Performance of AI by Camera (Number of Channels)	5	Alarm	
SMD Plus		General Alarm	Motion detection; privacy masking; video loss; PIR alarm; IPC alarm
SMD Plus by Device	4	Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; cyber security exception
SMD Plus by Camera	6-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	Intelligent Alarm	Face detection; face recognition; perimeter protection (intrusion and tripwire); IVS; SMD Plus
Video		Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; tour
Access Channel	8 channels	External Port	
Network Bandwidth	AI off: Access: 144 Mbps; Storage: 144 Mbps; Forward: 72 Mbps AI on: Access: 72 Mbps; Storage: 72 Mbps; Forward: 36 Mbps	HDD	1 SATA port, up to 10 TB. The maximum HDD capacity varies with environment temperature
Resolution	12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1	USB	1 × front USB2.0; 1 × back USB2.0
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	HDMI	1 (max. resolution: 4K)
		VGA	1
		Network	1 × RJ-45, 10/100/1000 Mbps
		PoE	8 × PoE ports, 10/100 Mbps
		RCA Input	1
		RCA Output	1
		General Parameter	
		Power Supply	53VDC, 1.8A
		Power Consumption	Total output of NVR is ≤ 10W (without HDD) Total output power of PoE is 72W, the maximum output power of asingle port is 25.5W

Net Weight	0.92 kg (2.03 lb)
Gross weight	2.07 kg (4.56 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
Certifications	FCC:47 CFR FCC Part15,SubpartB,Class A CE-EMC:EN 55032:2015,Class A;EN IEC 61000-3-2:2019;EN 61000-3-3:2013+A1:2019;EN 55024:2010+A1:2015;EN 55035:2017;EN 50130-4:2011+A1:2014 CE-LVD:EN 62368-1:2014+A11:2017

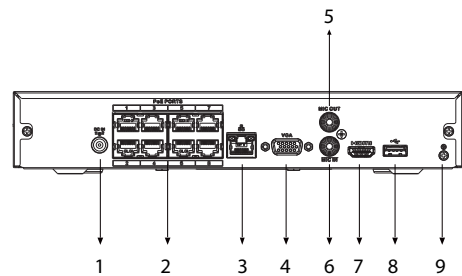
Ordering Information

Type	Model	Description
8 Channel WizSense NVR	DHI-NVR2108HS-8P-I2	8 Channel Compact 1U 8 PoE WizSense Network Video Recorder

Dimensions (mm[inch])



Panels



- | | | | |
|---|--------------------------|---|-------------------------|
| 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 | | |