



# DHI-NVR2208-8P-I

# 8 Channel 1U 8PoE WizSense Network Video Recorder





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.

# **System Overview**

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.

## **Functions**

# **New User Interface**

Local and web interfaces adopt the new UI 4.0 style which caters to users habits. Functional modules are divided more clearly and easier to understand.

### Decoding (Smart H.265+/Smart H.264+)

Dahua smart encoding (H.265+/ H.264+) is the optimized implementation of (H.265/H.264) codec that uses a scene-adaptive code rate control algorithm, providing more efficiency in the encoding process and higher video quality, and reducing the cost of storage and transmission significantly. This NVR supports the corresponding decoding.

## **SMD Plus**

SMD Plus, referred to as Smart Motion Detection Plus, which is an upgrading version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithm. It analyzes person and vehicle shapes based on motion detection and sends alarms only when person or vehicle intrudes.

- New 4.0 user interface
- Remote surveillance, live view and video play on mobile phone App
- Max. decoding capability: 4×1080P@30fps. Supports adaptive decoding
- Supports mainstream cameras of ONVIF and RTSP protocols
- H.264/.H265/Smart H.264+/Smart H.265+/MJPEG, H.265 auto switch
- 1 VGA/1 HDMI simultaneous video output by default, the maximum resolution of HDMI is 4K; and non-simultaneous video output is also supported, the maximum resolution is 1080P
- 1-channel face detection and recognition (AI by NVR); or 2-channel perimeter detection (AI by NVR); or 4-channel SMD (AI by NVR); up to 10 face databases and 5,000 face images
- All-channel Al by camera: face detection and comparison, perimeter protection and SMD
- · Security baseline 2.1





#### 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 is to figure out the captured face with target features, and compare them with the face database to identify the personnel.

#### **Perimeter Protection**

Based on the deep learning algorithm, perimeter protection provides accurate human and vehicle classification detection. It grealy reduces false alarms by smartly detecting behaviors such as tripwire and intrusion according to the detected object in restricted areas (e.g., for human or vehicle) .



Technical Specification			Up to 10 face databases with 5,000 face images in total. Name, gender, birthday, address, certificate
System		Database Management	cerificate No., countries&regions and state can be to each face picture.
Main Processor	Industrial-grade embedded processor	Database Application	Each database can be applied to video channels independently.
Operating System	Embedded Linux	Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recordin Alarm Out, PTZ Activation, etc.
Operation Interface	Web/operating in local GUI	Alarm Linkage	Video recording, snapshot, log, preset, tour
Video		Perimeter Protection	
Access Channel	8 channels	Performance	2 channels
Network Bandwidth	200 Mbps for access, 200 Mbps for storage and 100 Mbps for forwarding.	Object classification	Human/Vehicle secondary recognition for tripwir intrusion
Resolution	12M/8M/5M/4M/3M/2M/720P/D1	Al Search	Search by target classification (Human, Vehicle)
Decoding Capability	1ch 8MP@30fps 4ch 1080P@30fps	Alarm	
Video Output	1 VGA/1 HDMI simultaneous video output by default, the maximum resolution of HDMI is 4K	General Alarm	Motion detection, privacy masking, video loss, PI IPC alarm
Multi-screen Display	1/4/8/9	Anomaly Alarm	Front-end device going offline, storage error, full silve conflict, MAC conflict, login lock, network secu
Third Party Camera Access	Onvif, RTSP	,, ,	anomaly
Compression		Alarm Linkage	Video recording, snapshot, log, preset, tour
Video	H.264/.H265/Smart H.264+/Smart H.265+/MJPEG	External Port	
Audio	PCM/G711A/G711U/G26/AAC	HDD	2 SATA ports, up to 8 TB for a single HDD. The ma HDD capacity varies with environment temperatu
Network		USB	1 front USB 2.0 port, 1 rear USB 2.0 port
Network Protocol	HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS	HDMI	1
Mobile Phone Access	Android, iOS	VGA	1
Interoperability	ONVIF (profile T/profile S/profile G), CGI, SDK	Network	1 RJ-45 port (10/100/1000 Mbps), 8 RJ-45 ports PoE power supply (10/100 Mbps)
Browser	Chrome, IE9 or above, Firefox	RCA Input	1
Record Playback		RCA Output	1
Multi-channel Playback	Up to 8 channels playback	General Parameter	
Record Mode	Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording	Power Supply	DC54V, 2.22A
Storage	Local HDD and network	Power Consumption	Total output of NVR is ≤ 10W (without HDD)Total power of PoE is 80W, the maximum output power single port is 25.5W
Backup	USB device	Net Weight	1.72 kg (3.79 lb)
Playback Function	1. Play, pause, stop, fast forward, fast backward, rewind, play by frame	Gross weight	3.07 kg (6.77 lb)
	<ol><li>Full screen, backup (cut/file), partially enlarge, audio on/off</li></ol>	Product Dimensions	375 mm × 284.3 mm × 53 mm (W × L × H) 14.76 inch × 11.19 inch × 2.09 inch (W × L × H)
SMD Plus Performance	4 channels	Package Dimensions	141 mm × 433 mm × 366 mm (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H)
Al Search	Search by target classification (Human, Vehicle)	Operating Temperature	-10°C to 55°C (+14°F to +113°F)
Face Recognition		Storage Temperature	0°C to 40°C (+32°F to +104°F)
Performance	Max 8 face pictures/sec processing	Operating Humidity	10%-93%
	1 channel video stream face recognition	Storage Humidity	30%–85%
Stranger Mode	Detect strangers' faces (not in device's face database).	Operating Altitude	3000 m (9843 ft)
	Similarity threshold can be set manually.  Up to 8 target face images search at same time,	Installation	Desktop mounting
Al Search	similarity threshold can be set for each target face image.	Certifications	CE/FCC

# **Ordering Information**

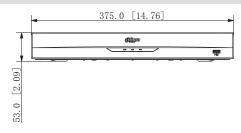
Type Model Description

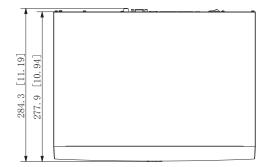
8 Channel
WizSense NVR

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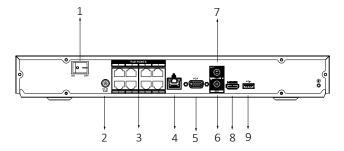
8 Channel 1U 8PoE WizSense
Network Video Recorder

# Dimensions (mm[inch])





## **Panels**



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