



# DHI-NVR2208-I

# 8 Channel 1U 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

#### **Series 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: 6 × 1080p@30 fps. 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
- · 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**

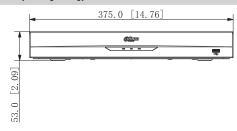
Based on the deep learning algorithm, perimeter protection provides accurate human and vehicle classification detection. It grealy reduces false alarms by smartly detecting behaviors such as tripwire and intrusion according to the detected object in restricted areas (e.g., for human or vehicle) .

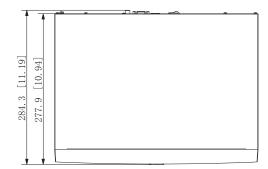
Technical Specification			Up to 10 face databases with 5,000 face images in total. Name, gender, birthday, address, certificate type,	
System		Database Management	cerificate No., countries&regions and state can be added to each face picture	
Main Processor	Industrial-grade embedded processor	Database Application	Each database can be applied to video channels	
Operating System	Embedded Linux		independently  Buzzer, Voice Prompts, Email, Snapshot, Recording,	
Operation Interface	Web/operating in local GUI	Trigger Events	Alarm Out, PTZ Activation, etc.	
Video		Alarm Linkage	Video recording, snapshot, log, preset, tour	
Access Channel	8 channels	Perimeter Protection	1	
Network Bandwidth	80 Mbps for access, 80 Mbps for storage and 60 Mbps	Performance	2 channels	
Resolution	for forwarding 12M/8M/5M/4M/3M/2M/720p/D1	Object classification	Human/Vehicle secondary recognition for tripwire and intrusion	
Resolution	Al 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 Al enabled: 1-channel 8MP@30 fps; 1-channel 5MP@30 fps; 2-channel 4MP@30 fps	Al Search	Search by target classification (human, vehicle)	
Decoding Capability		Alarm		
, , ,		General Alarm	Motion detection, privacy masking, video loss, PIR alarm,	
Video Output	1 VGA/1 HDMI simultaneous video output by default,		IPC alarm Front-end device going offline, storage error, full storage,	
Multi-screen Display	the maximum resolution of HDMI is 4K 1/4/8/9	Anomaly Alarm	IP conflict, MAC conflict, login lock, network security anomaly	
Third Party Camera Access	Onvif, RTSP	Alarm Linkage	Video recording, snapshot, log, preset, tour	
Compression		External Port	G. , , G., ,	
Video	H.264/.H265/Smart H.264+/Smart H.265+/MJPEG		2 SATA ports, up to 8 TB for a single HDD. The maximum	
Audio	PCM/G711A/G711U/G26/AAC	HDD	HDD capacity varies with environment temperature	
Network		USB	1 front USB 2.0 port, 1 rear USB 2.0 port	
	HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP,	HDMI	1	
Network Protocol	DNS	VGA	1	
Mobile Phone Access	Android, iOS	Network	1 RJ-45 port (10/100 Mbps)	
Interoperability	ONVIF (profile T/profile S/profile G), CGI, SDK	RCA Input	1	
Browser	Chrome, IE9 or above, Firefox	RCA Output	1	
Record Playback		General Parameter	·	
Multi-channel Playback	Up to 8 channels playback	Power Supply	DC 12V, 4A	
Record Mode	Priority of record mode: Manual recording > alarm recording > motion detection recording > timed	Power Consumption	Total output of NVR is ≤ 10W (without HDD)	
Storage	recording  Local HDD and network	Net Weight		
Backup	USB device	, and the second	1.51 kg (3.33 lb)	
Вискир	Play, pause, stop, fast forward, fast backward, rewind,	Gross weight	2.76 kg (6.08 lb)	
Playback Function	play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off	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		Package Dimensions	141 mm $\times$ 433 mm $\times$ 366 mm (W $\times$ L $\times$ H) 5.55 inch $\times$ 17.05 inch $\times$ 14.41 inch (W $\times$ L $\times$ H)	
Performance	4 channels	Operating Temperature	-10°C to +55°C (+14°F to +113°F)	
Al Search	Search by target classification (human, vehicle)	Storage Temperature	0°C to +40°C (+32°F to +104°F)	
Face Recognition		Operating Humidity	10%-93%	
Performance	Max 8 face pictures/sec processing	Storage Humidity	30%-85%	
	1 channel video stream face recognition	Operating Altitude	3000 m (9843 ft)	
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually	Installation	Desktop mounting	
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image	Certifications	CE/FCC	



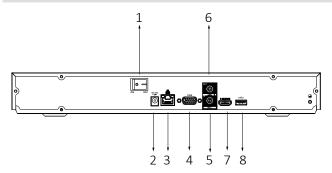
Ordering Information			
Туре	Model	Description	
8 Channel WizSense NVR	DHI-NVR2208-I	8 Channel 1U WizSense Network Video Recorder	

# Dimensions (mm [inch])





## **Panels**



- 1 Power Switch 2 DC 12V Power Input
- 3 Network Port 4 VGA Port
- 5 AUDIO IN, RCA Connector 6 AUDIO OUT, RCA Connector
- 7 HDMI Port 8 USB Port