



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.

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) .



image.

Technical Specification		
System		Database Managem
Main Processor	Industrial-grade embedded processor	Database Application
Operating System	Embedded Linux	
Operation Interface	Web/operating in local GUI	Trigger Events
Video		Alarm Linkage
Access Channel	8 channels	Perimeter Protecti
Network Bandwidth	80 Mbps for access, 80 Mbps for storage and 60 Mbps for forwarding.	Performance
Resolution	12M/8M/5M/4M/3M/2M/720P/D1	Object classification
	1ch 8MP@30fps	Al Search
Decoding Capability	4ch 1080P@30fps	Alarm
Video Output	1 VGA/1 HDMI simultaneous video output by default, the maximum resolution of HDMI is 4K	General Alarm
Multi-screen Display	1/4/8/9	
Third Party Camera Access	Onvif, RTSP	Anomaly Alarm
Compression		Alarm Linkage
Video	H.264/.H265/Smart H.264+/Smart H.265+/MJPEG	External Port
Audio	PCM/G711A/G711U/G26/AAC	HDD
Network		USB
Network Protocol	HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS	HDMI
Mobile Phone Access	Android, iOS	VGA
Interoperability	ONVIF (profile T/profile S/profile G), CGI, SDK	
Browser	Chrome, IE9 or above, Firefox	Network
Record Playback	, -,	RCA Input
Multi-channel Playback	Up to 8 channels playback	RCA Output
a.a chamier rayback	Priority of record mode: Manual recording > alarm	General Parameter
Record Mode	recording > motion detection recording > timed recording	Power Supply
Storage	Local HDD and network	Power Consumption
Backup	USB device	Net Weight
	Play, pause, stop, fast forward, fast backward, rewind, play by frame	Gross weight
Playback Function	play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off	Product Dimensions
SMD Plus		Package Dimensions
Performance	4 channels	
Al Search	Search by target classification (Human, Vehicle)	Operating Temperature
Face Recognition		Storage Temperature
Dorformana	Max 8 face pictures/sec processing	Operating Humidity
Performance	1 channel video stream face recognition	Storage Humidity
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.	Operating Altitude
	Up to 8 target face images search at same time,	Installation
Al Search	similarity threshold can be set for each target face	Certifications

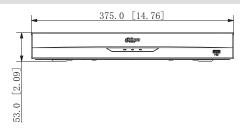


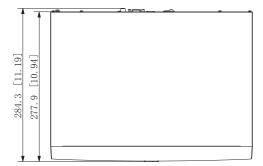
Ordering Information

Type Model Description

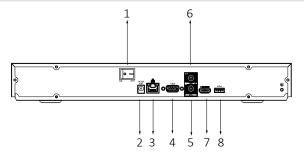
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Dimensions (mm[inch])





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