

DHI-NVR2108-8P-I

8 Channel Smart 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) .



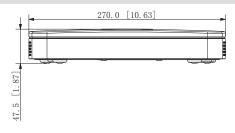
Technical Specification			Up to 10 face databases with 5,000 face images
System		Database Management	total. Name, gender, birthday, address, certificat cerificate No., countries®ions and state can be to each face picture.
Main Processor	Industrial-grade embedded processor	Database Application	Each database can be applied to video channels independently.
Operating System	Embedded Linux	Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Record
Operation Interface	Web/operating in local GUI		Alarm Out, PTZ Activation, etc.
Video		Alarm Linkage	Video recording, snapshot, log, preset, tour
Access Channel	8 channels	Perimeter Protection	1
Network Bandwidth	200 Mbps for access, 200 Mbps for storage and 100 Mbps for forwarding.	Performance	2 channels
Resolution	12M/8M/5M/4M/3M/2M/720P/D1	Object classification	Human/Vehicle secondary recognition for tripw intrusion
Decoding Capability	1ch 8MP@30fps 4ch 1080P@30fps	Al Search	Search by target classification (Human, Vehicle)
Video Output	$1\mathrm{VGA}/1\mathrm{HDMI}$ simultaneous video output by default, the maximum resolution of HDMI is 4K	Alarm General Alarm	Motion detection, privacy masking, video loss, P
Multi-screen Display	1/4/8/9		IPC alarm
Third Party Camera Access	Onvif, RTSP	Anomaly Alarm	Front-end device going offline, storage error, ful storage, IP conflict, MAC conflict, login lock, net security 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	1 SATA port, up to 6 TB. The maximum HDD cap
Network		USB	varies with environment temperature 2 rear USB 2.0 ports
Network Protocol	HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS	HDMI	1
Mobile Phone Access	Android, iOS		1
Interoperability	ONVIF (profile T/profile S/profile G), CGI, SDK	VGA	1 RJ-45 port (10/100/1000 Mbps), 8 RJ-45 port
Browser	Chrome, IE9 or above, Firefox	Network	PoE power supply (10/100 Mbps)
Record Playback		RCA Input	1
Multi-channel Playback	Up to 8 channels playback	RCA Output	1
Record Mode	Priority of record mode: Manual recording > alarm recording > motion detection recording > timed	General Parameter Power Supply	DC53V, 1.8A
	recording	Power Suppry	Total output of NVR is ≤ 10W (without HDD)Total
Storage Backup	Local HDD and network USB device	Power Consumption	power of PoE is 72W, the maximum output pow single port is 25.5W
Playback Function	Play, pause, stop, fast forward, fast backward, rewind,	Net Weight	0.70 kg (1.54 lb)
	play by frame 2. Full screen, backup (cut/file), partially enlarge, audio	Gross weight	1.80 kg (3.97 lb)
SMD Plus	on/off	Product Dimensions	270 mm × 206.3 mm × 47.5 mm (W × L × H) 10.63 inch × 8.12 inch × 1.87 inch (W × L × H)
Performance	4 channels	Package Dimensions	96 mm × 364 mm × 261 mm (W × L × H) 3.78 inch × 14.33 inch × 10.28 inch (W × L × H)
AI Search	Search by target classification (Human, Vehicle)	Operating Temperature	-10°C to 50°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). Similarity threshold can be set manually.	Operating Altitude	3000 m (9843 ft)
Al Search	Up to 8 target face images search at same time,	Installation	Desktop mounting
	similarity threshold can be set for each target face image.	Certifications	CE/FCC

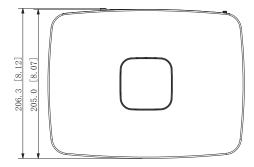
Ordering Information

Type Model Description

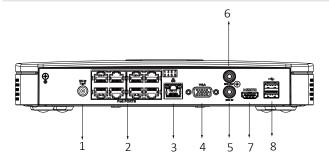
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Dimensions (mm[inch])





Panels



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