

E-MAPT ВАШ ПОСТАВЩИК DAHUA

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DHI-NVR2104-I

4 Channel Smart 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			Up to 10 face databases with 5,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries®ions and state can be added to each face picture.	
System		Database Management		
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	4 channels	Perimeter Protection	Perimeter Protection	
Network Bandwidth	80 Mbps for access, 80 Mbps for storage and 60 Mbps for forwarding.	Performance	2 channels	
Resolution	12M/8M/5M/4M/3M/2M/720P/D1	Object classification	Human/Vehicle secondary recognition for tripwire and intrusion	
Decoding Capability	1ch 8MP@30fps 4ch 1080P@30fps	Al Search	Search by target classification (Human, Vehicle)	
Video Output	1 VGA/1 HDMI simultaneous video output by default, the maximum resolution of HDMI is 4K	Alarm	Mation detection without modeling video loss DID playment	
Multi-screen Display	1/4	General Alarm	Motion detection, privacy masking, video loss, PIR alarm IPC alarm	
Third Party Camera Access	Onvif, RTSP	Anomaly Alarm	Front-end device going offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly	
Compression		Alarm Linkage	Video recording, snapshot, log, preset, tour	
Video	H.264/.H265/Smart H.264+/Smart H.265+/MJPEG	External Port	<i>3,</i> 1 , 3,1 ,	
Audio	PCM/G711A/G711U/G26/AAC		1 SATA port, up to 6 TB. The maximum HDD capacity	
Network		HDD	varies with environment temperature	
Network Protocol	HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS	USB	2 rear USB 2.0 ports	
Mobile Phone Access	Android, iOS	HDMI	1	
Interoperability	ONVIF (profile T/profile S/profile G), CGI, SDK	VGA	1	
Browser	Chrome, IE9 or above, Firefox	Network	1 RJ-45 port (10/100 Mbps)	
Record Playback		RCA Input	1	
Multi-channel Playback	Up to 4 channels playback	RCA Output	1	
	Priority of record mode: Manual recording > alarm	General Parameter		
Record Mode	recording > motion detection recording > timed recording	Power Supply	DC12V, 1.5A	
Storage	Local HDD and network	Power Consumption	Total output of NVR is \leq 10W (without HDD)	
Backup	USB device	Net Weight	0.45kg (0.99 lb)	
	1. Play, pause, stop, fast forward, fast backward, rewind,	Gross weight	1.07kg (3.04 lb)	
Playback Function	play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off	Product Dimensions	204.6 mm \times 206.4 mm \times 48.1 mm (W \times L \times H) 8.06 inch \times 8.13 inch \times 1.89 inch (W \times L \times H)	
SMD Plus		Package Dimensions	96 mm × 364 mm × 261 mm (W × L × H) 3.78 inch × 14.33 inch × 10.28 inch (W × L × H)	
Performance	4 channels	Operating Temperature	-10°C to 50°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	
	Up to 8 target face images search at same time,	Certifications	CE/FCC	
Al Search	similarity threshold can be set for each target face	CC. tilleations	52,100	

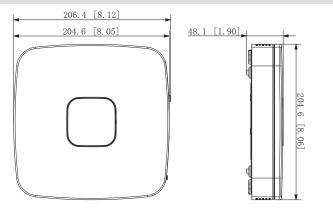


Ordering Information

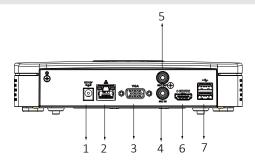
Type Model Description

4 Channel Smart 1U WizSense NvR WizSense NVR 4 Channel Smart 1U WizSense Network Video Recorder

Dimensions (mm[inch])



Panels



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