



DHI-NVR2216-I

16 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

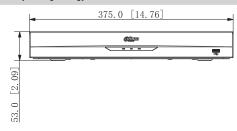
Based on the deep learning algorithm, perimeter protection provides accurate human and vehicle classification detection. It grealy reduces false alarms by smartly detecting behaviors such as tripwire and intrusion according to the detected object in restricted areas (e.g., for human or vehicle) .

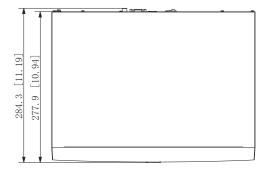
Technical Specification	on		Up to 10 face databases with 5,000 face images in
System		Database Management	total. Name, gender, birthday, address, certificate t cerificate No., countries®ions and state can be a to each face picture
Main Processor	Industrial-grade embedded processor	Databasa Avaliantian	Each database can be applied to video channels
Operating System	Embedded Linux	Database Application	independently
Operation Interface	Web/operating in local GUI	Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.
Video		Alarm Linkage	Video recording, snapshot, log, preset, tour
Access Channel	16 channels	Perimeter Protection	n
Network Bandwidth	200 Mbps for access, 200 Mbps for storage and 100	Performance	2 channels
Developing	Mbps for forwarding	Object classification	Human/Vehicle secondary recognition for tripwire intrusion
	12M/8M/5M/4M/3M/2M/720p/D1 Al disabled: 1-channel 12MP@30 fps; 1-channel	Al Search	Search by target classification (human, vehicle)
Decoding Capability	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; 4-channel 1080p@30 fps	Alarm	, , , , , , , , , , , , , , , , , , , ,
Decouning capazinity			Motion detection, privacy masking, video loss, PIR a
Video Output	1 VGA/1 HDMI simultaneous video output by default,	General Alarm	IPC alarm
·	the maximum resolution of HDMI is 4K	Anomaly Alarm	Front-end device going offline, storage error, full sto IP conflict, MAC conflict, login lock, network securit
Multi-screen Display	1/4/8/9/16		anomaly
Third Party Camera Access	Onvif, RTSP	Alarm Linkage	Video recording, snapshot, log, preset, tour
Compression		External Port	
Video	H.264/.H265/Smart H.264+/Smart H.265+/MJPEG	HDD	2 SATA ports, up to 8 TB for a single HDD. The maxi HDD capacity varies with environment temperature
Audio	PCM/G711A/G711U/G26/AAC	USB	1 front USB 2.0 port, 1 rear USB 2.0 port
Network		HDMI	1
Network Protocol	HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS	VGA	1
Mobile Phone Access	Android, iOS	Network	1 RJ-45 port (10/100/1000 Mbps)
Interoperability	ONVIF (profile T/profile S/profile G), CGI, SDK		110 15 port (10, 100, 1000 maps)
Browser	Chrome, IE9 or above, Firefox	RCA Input	1
Record Playback		RCA Output	1
Multi-channel Playback Up to 16 channels playback		General Parameter	
Record Mode	Priority of record mode: Manual recording > alarm recording > motion detection recording > timed	Power Supply	DC 12V, 4A
Record Mode	recording > motion detection recording > timed recording	Power Consumption	Total output of NVR is ≤ 10W (without HDD)
Storage	Local HDD and network	Net Weight	1.51 kg (3.33 lb)
Backup	USB device	Gross weight	2.76 kg (6.08 lb)
Playback Function	Play, pause, stop, fast forward, fast backward, rewind, play by frame Full screen, backup (cut/file), partially enlarge, audio	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	on/off	Package Dimensions	141 mm × 433 mm × 366 mm (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × 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
Stranger Wode			



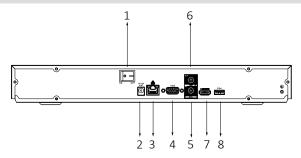
Ordering Information			
Туре	Model	Description	
16 Channel WizSense NVR	DHI-NVR2216-I	16 Channel 1U WizSense Network Video Recorder	

Dimensions (mm [inch])





Panels



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