



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: 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
- · 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		
stem			Database Management
Main Processor	Industrial-grade embedded processor		Database Application
Operating System	Embedded Linux	Trigger l	Events
peration Interface	Web/operating in local GUI	Trigger Events	
/ideo		Alarm Linkage	
Access Channel	16 channels	Perimeter Prote	ctior
Network Bandwidth	200 Mbps for access, 200 Mbps for storage and 100 Mbps for forwarding	Performance	
Resolution	12M/8M/5M/4M/3M/2M/720p/D1	Object classification	
Decoding Capability	1-channel 8MP@30fps 4-channel 1080p@30fps	Al Search	
Video Output	1 VGA/1 HDMI simultaneous video output by default, the maximum resolution of HDMI is 4K	Alarm	
Multi-screen Display	1/4/8/9/16	General Alarm	
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	Network	
Browser	Chrome, IE9 or above, Firefox		
Record Playback		RCA Input	
Multi-channel Playback	Up to 16 channels playback	RCA Output	
Record Mode	Priority of record mode: Manual recording > alarm recording > motion detection recording > timed	General Parameter	
	recording	Power Supply	
Storage	Local HDD and network	Power Consumption	
Backup	USB device	Net Weight	
Dlayback Free History	1. Play, pause, stop, fast forward, fast backward, rewind, play by frame	Gross weight	
Playback Function	2. Full screen, backup (cut/file), partially enlarge, audio on/off	Product Dimensions	
SMD Plus		Package Dimensions	
Performance	4 channels		
AI Search	Search by target classification (human, vehicle)	Operating Temperature	
Face Recognition		Storage Temperature	
Performance	Max 8 face pictures/sec processing	Operating Humidity	
Citornance	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	
Al Search	Up to 8 target face images search at same time,	Installation	
AI Search	similarity threshold can be set for each target face image	Certifications	

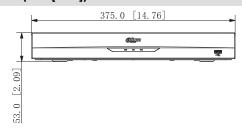


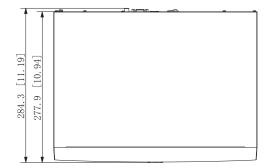
Ordering Information

Type Model Description

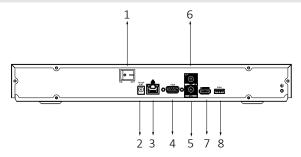
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Dimensions (mm [inch])





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