

DHI-NVR2216-16P-I2

16 Channel 1U 16PoE 2HDDs 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 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 and exits, and perimeter protection of people and vehicles.

Functions

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

Dahua Face Recognition technology extracts the features of captured faces and compares them with those in face database to recognize the person identity.

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format
- Max. decoding capability: 6 × 1080p@30 fps. Supports adaptive decoding
- 1-channel face detection and recognition (AI by NVR); 1-channel perimeter protection (AI by NVR); up to 10 face databases and 5,000 face images; 4-channel SMD Plus (AI by NVR);
- Al by camera: Face detection and recognition, perimeter protection, and SMD Plus
- Connected to the third-party network cameras
- · Security baseline 2.1













Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to perform secondary recognition for the targets. Improving alarm accuracy.

SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

AI Search

Support AI seach by metadata of different targets or uploading face pictures to device and comparing them with recorded faces by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.

Smart Fan

The NVR is equipped with a smart fan to achieve high cooling efficiency. It automatically turns on or turns off according to CPU and ambient temperature. The fan is long-lasting and low noise, reducing maintenance costs and improving the user experience.

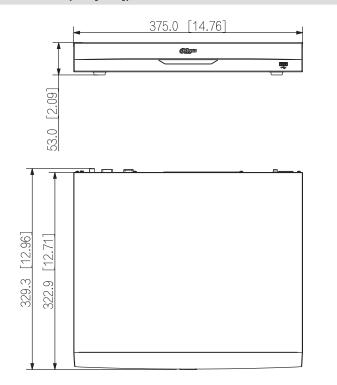
Technical Specification	on	Video Output	1 × VGA, 1 × HDMI (simultaneous)
System		Multi-screen Display	1, 4, 8, 9, 16 views
Main Processor	Industrial-grade embedded processor	Third Party Camera Access	Onvif; RTSP;
Operating System	Embedded Linux	Compression	
Operation Interface	Web; local GUI	Video	Smart H.265+; H.265; Smart H.264+; H.264; MJPE
Al		Audio	PCM; G711A; G711U; G726
AI by Camera	Face detection; face recognition; perimeter protection;	Network	
Al by Device	SMD Plus Face detection; face recognition; perimeter protection; SMD Plus	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCF SMTP; UPnP; IP Filter; DDNS; Alarm Server; IP Sea (Supports Dahua IP camera, DVR, NVS, etc.); P2P;
Perimeter Protection			Registration
Perimeter Performance AI by Device(Number of	1	Mobile Phone Access	Android; iOS
Channels)		Interoperability	ONVIF (profile T; profile S; profile G); CGI; SDK
Perimeter Performance of Al by Camera (Number of	4	Browser	Chrome; IE9 or later; Firefox
hannels)		Record Playback	
ace Detection		Multi-channel Playback	Up to 16 channels
ace Attributes	6 attibutes: Gender; age group (6); glasses; expressions (8); mouth mask; beard	Record Mode	Manual record; alarm recordings; motion detection recordings; scheduled recordings
ace Detection Performance of AI by	1 (up to 12 face images/second)	Storage	Local HDD and network
Pevice (1080P) (Number of Channels)	1 (up to 12 face images/second)	Backup	USB device
Face Detection Performance of AI by Camera (Number of Channels)	5	Playback Function	Play; pause; stop; fast forward; fast backward; play by frame Full screen; backup (vide clip/file); partially zomaudio on/off
Face Recognition		Alarm	
ace Database Capacity	Up to 10 face databases with 5,000 images	General Alarm	Motion detection; privacy masking; video loss; PI IPC alarm
Face Recognition Performance of AI by Device (1080P) (Number	1 (up to 4 face images/second)	Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; conflict; login lock; cyber security exception
of Channels)		Intelligent Alarm	Face detection; face recognition; perimeter prote (intrusion and tripwire); IVS; SMD Plus
ace Recognition Performance of AI by	5	Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; to
Camera (Number of Channels)	3	External Port	
SMD Plus		HDD	2 SATA ports, up to 10 TB. The maximum HDD cap varies with environment temperature
MD Plus by Device	4	USB	1 × front USB2.0; 1 × back USB2.0
MD Plus by Camera	6-channel SMD Plus (AI by camera): Detects tripwire and intrustion of human or vehicle; filters false alarms caused	HDMI	1 (max. resolution: 4K)
/: -l	by leaves, raindrops and change of brightness away	VGA	1
/ideo		Network	1 × RJ-45, 10/100/1,000 Mbps
ccess Channel	16 channels	PoE	16 × PoE ports, 10/100 Mbps
Network Bandwidth	Al off: Access: 144 Mbps; Storage: 144 Mbps; Forward: 72 Mbps Al on: Access: 72 Mbps; Storage: 72 Mbps; Forward: 36 Mbps	RCA Input	1
		RCA Output	1
esolution	12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1	Alarm Input	4
Decoding Capability	Al disabled: 1-channel 12MP@30 fps; 1-channel 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 Output	2
		General Parameter	
		Power Supply	100-240V, 47-63HZ, 3.5A

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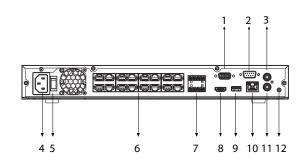
Power Consumption	Total output of NVR is \leq 10W (without HDD)Total output power of PoE is 130W, the maximum output power of a single port is 25.5W		
Net Weight	2.63 kg (5.80 lb)		
Gross weight	3.91 kg (8.62 lb)		
Product Dimensions	375 mm × 329.3 mm × 53 mm (14.76" × 12.96" × 2.09") (W × L × H)		
Package Dimensions	148 mm × 449 mm × 421 mm (5.83" × 17.68" × 16.57") (W × L × H)		
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)		
Storage Temperature	0 °C to 40 °C (32 °F to 104 °F)		
Operating Humidity	10%-93%		
Storage Humidity	30%-85%		
Operating Altitude	3,000 m (9,842.52 ft)		
Installation	Desktop		
Certifications	FCC:47 CFR FCC Part15, SubpartB, Class A CE-EMC:EN 55032:2015, Class A; EN IEC 61000- 3-2:2019; EN 61000-3-3:2013+A1:2019; EN 55024:2010+A1:2015; EN 55035:2017; EN 50130- 4:2011+A1:2014 CE-LVD:EN 62368-1:2014+A11:2017		

Ordering Information				
Туре	Model	Description		
16 Channel WizSense NVR	DHI-NVR2216- 16P-I2	16 Channel 1U 16PoE WizSense Network Video Recorder		

Dimensions (mm[inch])



Panels



- VGA Port 2
- 3 AUDIO OUT, RCA Connector
- 5 Power Switch
- 7 Alarm In/Out
- 9 USB Port
- 11 AUDIO IN, RCA Connector
- 2 RS-232 Port
- 4 Power Input
- 6 PoE Ports
- 8 HDMI Port
- 10 Network Port
-
- 12 Ground