



DHI-NVR2116HS-I2

16 Channel Compact 1U 1HDD 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: $6 \times 1080p@30$ fps. Supports adaptive decoding
- 1-channel face detection and recognition (Al by NVR); 1-channel perimeter protection (Al by NVR); up to 10 face databases and 5,000 face images; 4-channel SMD Plus (Al 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.

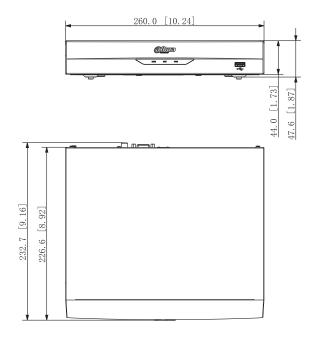
Technical Specification	on	Video Output	$1 \times VGA$, $1 \times HDMI$ (simultaneous)
System		Multi-screen Display	1, 4, 8, 9, 16 views
Main Processor	Industrial-grade embedded processor	Third Party Camera Access	Onvif; RTSP;
Operating System	Embedded Linux	Compression	
Operation Interface	Web; local GUI	Video	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Al		Audio	PCM; G711A; G711U; G726
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus	Network	
Al by Device	Face detection; face recognition; perimeter protection; SMD Plus	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); P2P; Auto Registration
Perimeter Protection		Mobile Phone Access	Android; iOS
Perimeter Performance Al by Device(Number of	1		
Channels) Perimeter Performance of		Interoperability	ONVIF (profile T; profile S; profile G); CGI; SDK
Al by Camera (Number of Channels)	4	Browser	Chrome; IE9 or later; Firefox
Face Detection		Record Playback	
Face Attributes	6 attibutes: Gender; age group (6); glasses; expressions	Multi-channel Playback	Up to 16 channels Manual record; alarm recordings; motion detection
	(8); mouth mask; beard	Record Mode	recordings; scheduled recordings
Performance of AI by	1 (up to 12 face images/second)	Storage	Local HDD and network
Device (1080P) (Number of Channels)	T (ap to 12 lace images/second)	Backup	USB device
Face Detection Performance of Al by Camera (Number of Channels)	5	Playback Function	Play; pause; stop; fast forward; fast backward; rewind; play by frame Full screen; backup (vide clip/file); partially zom in; audio on/off
Face Recognition		Alarm	
Face Database Capacity	Up to 10 face databases with 5,000 images	General Alarm	Motion detection; privacy masking; video loss; PIR alarm, IPC alarm
Face Recognition Performance of Al by	1 (up to 4 face images/second)	Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; cyber security exception
Device (1080P) (Number of Channels)		Intelligent Alarm	Face detection; face recognition; perimeter protection (intrusion and tripwire); IVS; SMD Plus
Face Recognition Performance of AI by	5	Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; tour
Camera (Number of Channels)		External Port	
SMD Plus		HDD	1 SATA port, up to 10 TB. The maximum HDD capacity varies with environment temperature
SMD Plus by Device	4	USB	1 × front USB2.0; 1 × back USB2.0
SMD 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)
SIMD FIRES BY CAILIELD	by leaves, raindrops and change of brightness away	VGA	1
Video		Network	1 × RJ-45, 10/100/1,000 Mbps
Access Channel	16 channels	RCA Input	1
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 Output	1
		RCA Output	1
Resolution	12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1	General Parameter	
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	Power Supply	12 V DC, 1.5 A
		Power Consumption	Total output of NVR is ≤ 10 W (without HDD)
		Net Weight	0.81 kg (1.79 lb)

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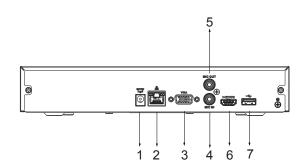
Gross weight	1.38 kg (3.04 lb)		
Product Dimensions	260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87") (W × L × H)		
Package Dimensions	89 mm × 333 mm × 315 mm (3.50" × 13.11" × 12.40") (W × L × H)		
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)		
Storage Temperature	0 °C to 40 °C (32 °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-NVR2116HS-I2	16 Channel Compact 1U WizSense Network Video Recorder		

Dimensions (mm[inch])



Panels



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