



DHI-NVR2104HS-I2

4 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 × 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 Al 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.

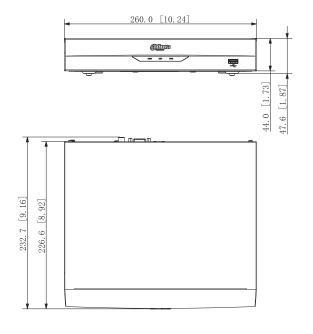
All by Device Footback Shafe Sha	Technical Specification		Multi-screen Display	1, 4 views
Operation (system)	System		Third Party Camera Access	Onvif; RTSP;
Operation Interface Web, Incraf Sicil All Vectors Network Network Network Network Network Network Protocol SARD Place detection, face recognition, permeter protection, SARD Place SARD Place intercent, face recognition, permeter protection, SARD Place Permitter Protection Permitter Protection Permitter Professionate All by Device Performance of All by Camera (Number of Channels) All by Device Performance of All by Camera (Number of Channels) Face Detection Face Attributes SARD Place Sar	Main Processor	Industrial-grade embedded processor	Compression	
All y Camera Take detection face recognition perimeter protection SAM Piles	Operating System	Embedded Linux	Video	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
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All by Camera (Number of Channels) Face Detection Face Detection Face Attributes 6. Attitudes: Gender; age group (6); glasses; expressions 8. Record Mode Face of Mode Face Manual record; alarm recordings; motion detection recordings; scheduled recordings Face Detection Ferformance of Al by Camera (Number of Channels) Face Detection Face Detection Ferformance of Al by Camera (Number of Channels) Face Recognition Face Detection Face Detection Face Detection Face Detection Ferformance of Al by Camera (Number of Channels) Face Recognition Face Detection Fac		•	Browser	Chrome; IE9 or later; Firefox
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Storage Local HDD and network		6 attibutes: Gender; age group (6); glasses; expressions	Record Mode	
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Performance of AI by Device (1080P) (Number of Channels) Face Recognition Performance of AI by Camera (Number of Channels) SMD Plus SMD Plus 4 4 4 4 4 4 4 4 4 4 4 4 4	Face Database Capacity	Up to 10 face databases with 5,000 images	Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; cyber security exception
Face Recognition Performance of Al by Camera (Number of Channels) SMD Plus SMD Plus by Device 4 4-channel SMD Plus (Al by camera): Detects tripwire and intrustion of human or vehicle; filters false alarms caused by leaves, raindrops and change of brightness away Video Access Channel Network Bandwidth Network Bandwidth Some by SMP; 5MP; 4MP; 3MP; 2MP; 720p; D1 Al disabled: 1-channel SMP@30 fps; 1-channel SMP@30 fps; 2-channel SMP@30 fps; 3-channel 4MP@30 fps; 3-channel SMP@30 fps; 3-channel 4MP@30 fps; 4-channel SMP@30 fps; 4-channel SMP@30 4MP@30 fps; 4-channel SMP@30 4MP@30 fps; 4-chan	Performance of AI by Device (1080P) (Number	1 (up to 4 face images/second)	Intelligent Alarm	Face detection; face recognition; perimeter protection (intrusion and tripwire); IVS; SMD Plus
Performance of Al by Camera (Number of Channels) SMD Plus SMD Plus SMD Plus by Device 4 4-channel SMD Plus (Al by camera): Detects tripwire and intrustion of human or vehicle; filters false alarms caused by leaves, raindrops and change of brightness away Video Access Channel Network Bandwidth Network Bandwidth Power Supply Al disabled: 1-channel 12MP@30 fps; 1-channel 8MP@30 fps; 2-channel 1MP@30 fps; 2-channel 1MP@30 fps; 1-channel 5MP@30 fps; 2-channel 1MP@30 fps; 4-channel 15MP@30 fps; 1-channel 5MP@30 fps; 2-channel 1MP@30 fps; 4-channel 15MP@30 fps; 4	,		Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; tour
HDD 1 SATA port, up to 10 TB. The maximum HDD capacity varies with environment temperature SMD Plus SMD Plus by Device 4 HDMI 1 (max. resolution: 4K) SMD Plus by Camera 4-channel SMD Plus (Al by camera): Detects tripwire and intrustion of human or vehicle; filters false alarms caused by leaves, raindrops and change of brightness away Video Access Channel 4 channels Network 1 × RJ-45 (10 or 100 Mbps) RCA Input 1 RCA Output 1 Network Bandwidth 80 Mbps for access, 80 Mbps for storage and 60 Mbps for forwarding. Resolution 12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1 Power Supply 12 ∨ DC, 1.5 A 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 SA lenabled: 1-channel 1080p@30 fps SA lenabled: 1-chann	Performance of AI by	4	External Port	
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SMD Plus by Camera intrustion of human or vehicle; filters false alarms caused by leaves, raindrops and change of brightness away VGA 1 VideO RCA Input 1 Access Channel 4 channels RCA Output 1 Network Bandwidth 80 Mbps for access, 80 Mbps for storage and 60 Mbps for forwarding. General Parameter Resolution 12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1 Power Supply 12 V DC, 1.5 A Al disabled: 1-channel 12MP@30 fps; 1-channel 8MP@30 fps; 2-channel 5MP@30 fps; 3-channel 4MP@30 fps; 2-channel 1080p@30 fps Power Consumption Total output of NVR is ≤ 10 W (without HDD) Net Weight 0.81 kg (1.79 lb) Net Weight 0.81 kg (1.79 lb) Video Output 1 × VGA, 1 × HDMI (simultaneous) Product Dimensions 260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87	SMD Plus by Device	4	HDMI	1 (max. resolution: 4K)
Video Network 1 × RJ-45 (10 or 100 Mbps) Access Channel 4 channels 1 Network Bandwidth 4 channels RCA Output 1 Network Bandwidth 80 Mbps for access, 80 Mbps for storage and 60 Mbps for forwarding. General Parameter Resolution 12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1 Power Supply 12 V DC, 1.5 A Al disabled: 1-channel 12MP@30 fps; 1-channel 8MP@30 fps; 2-channel 5MP@30 fps; 3-channel 4MP@30 fps; 2-channel 1080p@30 fps Power Consumption Total output of NVR is ≤ 10 W (without HDD) Net Weight 0.81 kg (1.79 lb) 0.81 kg (1.79 lb) Net Weight 1.38 kg (3.04 lb) Video Output 1 × VGA, 1 × HDMI (simultaneous) Product Dimensions 260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87	·	intrustion of human or vehicle; filters false alarms caused	VGA	1
Access Channel 4 channels RCA Output 1 RC			Network	1 × RJ-45 (10 or 100 Mbps)
RCA Output 1 Network Bandwidth 80 Mbps for access, 80 Mbps for storage and 60 Mbps for forwarding. General Parameter Resolution 12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1 Power Supply 12 V DC, 1.5 A Al disabled: 1-channel 12MP@30 fps; 1-channel 8MP@30 fps; 2-channel 5MP@30 fps; 3-channel 4MP@30 fps; 2-channel 1080p@30 fps Power Consumption Total output of NVR is ≤ 10 W (without HDD) Net Weight 0.81 kg (1.79 lb) Net Weight 0.81 kg (3.04 lb) Video Output 1 × VGA, 1 × HDMI (simultaneous) Product Dimensions 260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87			RCA Input	1
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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 Al enabled: 1-channel 8MP@30 fps; 4-channel 5MP@30 fps; 2-channel 4MP@30 fps; 4-channel 1080p@30 fps Gross weight 1.38 kg (3.04 lb) Video Output 1 × VGA, 1 × HDMI (simultaneous) Product Dimensions 260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87	Network Bandwidth		General Parameter	
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Decoding Capability 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 Gross weight 1.38 kg (3.04 lb) Video Output 1 × VGA, 1 × HDMI (simultaneous) Product Dimensions 260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87	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	Power Consumption	Total output of NVR is ≤ 10 W (without HDD)
fps; 2-channel 4MP@30 fps; 4-channel 1080p@30 fps Gross weight 1.38 kg (3.04 lb) Video Output 1 × VGA, 1 × HDMI (simultaneous) Product Dimensions 260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87			Net Weight	0.81 kg (1.79 lb)
Product Dimensions			Gross weight	1.38 kg (3.04 lb)
	Video Output	1×VGA, 1×HDMI (simultaneous)	Product Dimensions	260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87") (W × L × H)

Wiz Sense | DHI-NVR2104HS-I2

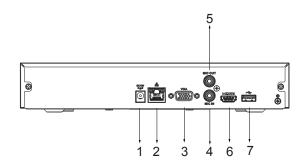
Package Dimensions	89 mm \times 333 mm \times 315 mm (3.50" \times 13.11" \times 12.40") (W \times L \times H)		
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)		
Storage Temperature	0 °C to 40 °C (32 °F to 104 °F)		
Operating Humidity	10%-93%		
Storage Humidity	30%-85%		
Operating Altitude	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		
4 Channel WizSense NVR	DHI-NVR2014HS-I2	4 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