

# DHI-NVR2104HS-P-I2

### 4 Channel Compact 1U 4PoE 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 (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.



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Technical Specification		Multi-screen Display	1, 4 views
System		Third Party Camera Access	Onvif
Main Processor	Industrial-grade embedded processor	Compression	
Operating System	Embedded Linux	Video	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Operation Interface	Web; local GUI	Audio	PCM; G711A; G711U; G726
Al		Network	
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus  Face detection; face recognition; perimeter protection;	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	SMD Plus	Mobile Phone Access	Android; iOS
Perimeter Performance		Interoperability	ONVIF (profile T; profile S; profile G); CGI; SDK
AI by Device(Number of	1	Browser	Chrome; IE9 or later; Firefox
Channels)  Perimeter Performance of		Record Playback	emonie, ies or later, riversa
	4		He to 4 shappeds
Face Detection		Multi-channel Playback	Up to 4 channels  Manual record; alarm recordings; motion detection
Face Attributes	6 attibutes: Gender; age group (6); glasses; expressions	Record Mode	recordings; scheduled recordings
	(8); mouth mask; beard	Storage	Local HDD and network
Face Detection Performance of AI by	1 (up to 12 face images/second)	Backup	USB device
Device (1080P) (Number of Channels) Face Detection	Tup to 12 face images/second/	Playback Function	Play; pause; stop; fast forward; fast backward; rewind; play by frame     Full screen; backup (vide clip/file); partially zom in;     walk and (eff.)
Performance of AI by Camera (Number of Channels)	4	Alarm	audio on/off
Face Recognition		General Alarm	Motion detection; privacy masking; video loss; PIR alarm; IPC alarm
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 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
of Channels)		Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; tour
Face Recognition Performance of AI by	4	External Port	
Camera (Number of Channels)	•	HDD	1 SATA port, up to 10 TB. The maximum HDD capacity varies with environment temperature
SMD Plus		USB	1 × front USB2.0; 1 × back USB2.0
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	VGA	1
Video	by leaves, raindrops and change of brightness away	Network	1 × RJ-45, 10/100 Mbps
		PoE	$4 \times PoE \ ports$ , $10/100 \ Mbps$
Access Channel	4 channels	RCA Input	1
Network Bandwidth	80 Mbps for access, 80 Mbps for storage and 60 Mbps for forwarding.	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	53 V DC, 1.13 A
		Power Consumption	Total output of NVR is $\leq$ 10W (without HDD)Total output power of PoE is 38W, the maximum output power of a single port is 25.5W
Video Output	1 × VGA, 1 × HDMI (simultaneous)	Net Weight	0.86 kg (1.90 lb)

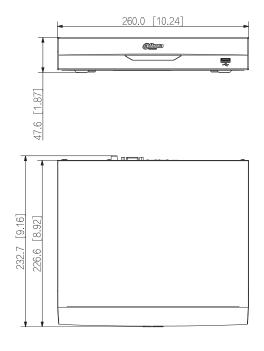


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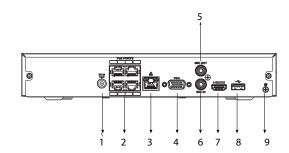
Gross weight	1.86 kg (4.10 lb)	
Product Dimensions	260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87") (W × L × H)	
Package Dimensions	117 mm $\times$ 373 mm $\times$ 307 mm (4.61" $\times$ 14.69" $\times$ 12.09") (W $\times$ L $\times$ H)	
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)	
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-NVR2104HS- P-I2	4 Channel Compact 1U 4PoE WizSense Network Video Recorder		

## Dimensions (mm[inch])



### **Panels**



- 1 Power Input
- 3 Network Port
- 5 AUDIO OUT, RCA Connector
- 7 HDMI Port
- 9 Ground

- 2 PoE Ports
- 4 VGA Port
- AUDIO IN, RCA Connector
- 8 USB Port

