

# DHI-NVR2108-8P-I2

8 Channel Smart 1U 8PoE 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 (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**

System				
Main Processor	Industrial-grade embedded processor			
Operating System	Embedded Linux			
Operation Interface	Web; local GUI			
AI				
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus			
Al by Device	Face detection; face recognition; perimeter protection; SMD Plus			
Perimeter Protection				
Perimeter Performance AI by Device(Number of Channels)	1			
Perimeter Performance of AI by Camera (Number of Channels)	4			
Face Detection				
Face Attributes	6 attibutes: Gender; age group (6); glasses; expressions (8); mouth mask; beard			
Face Detection Performance of Al by Device (1080P) (Number of Channels)	1 (up to 12 face images/second)			
Face Detection Performance of Al by Camera (Number of Channels)	5			
Face Recognition				
Face Database Capacity	Up to 10 face databases with 5,000 images			
Face Recognition Performance of Al by Device (1080P) (Number of Channels)	1 (up to 4 face images/second)			
Face Recognition Performance of AI by Camera (Number of Channels)	5			
SMD Plus				
SMD Plus by Device	4			
SMD Plus by Camera	6-channel SMD Plus (AI 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	8 channels			
Network Bandwidth	Al off: Access: 144 Mbps; Storage: 144 Mbps; Forward: 72 Mbps Al on: Access: 72 Mbps; Storage: 72 Mbps; Forward: 36 Mbps			
Resolution	12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1			
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			

Video Output	1 × VGA, 1 × HDMI (simultaneous)		
Multi-screen Display	1, 4, 8, 9 views		
Third Party Camera Access	Onvif		
Compression			
Video	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG		
Audio	PCM; G711A; G711U; G726		
Network			
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		
Mobile Phone Access	Android; iOS		
Interoperability	ONVIF (profile T; profile S; profile G); CGI; SDK		
Browser	Chrome; IE9 or later; Firefox		
Record Playback			
Multi-channel Playback	Up to 8 channels		
Record Mode	Manual record; alarm recordings; motion detection recordings; scheduled recordings		
Storage	Local HDD and network		
Backup	USB device		
Playback Function	1. Play; pause; stop; fast forward; fast backward; rewind; play by frame 2. Full screen; backup (vide clip/file); partially zom in; audio on/off		
Alarm			
General Alarm	Motion detection; privacy masking; video loss; PIR alarm; IPC alarm		
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; cyber security exception		
Intelligent Alarm	Face detection; face recognition; perimeter protection (intrusion and tripwire); IVS; SMD Plus		
Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; tour		
External Port			
HDD	1 SATA port, up to 10 TB. The maximum HDD capacity varies with environment temperature		
USB	2 rear USB 2.0 ports		
HDMI	1 (max. resolution: 4K)		
VGA	1		
Network	1 × RJ-45, 10/100/1000 Mbps		
PoE	8 × PoE ports, 10/100 Mbps		
RCA Input	1		
RCA Output	1		
General Parameter			
Power Supply	DC53V, 1.8A		
Power Consumption	Total output of NVR is ≤ 10W (without HDD)Total output power of PoE is 72W, the maximum output power of a single port is 25.5W		



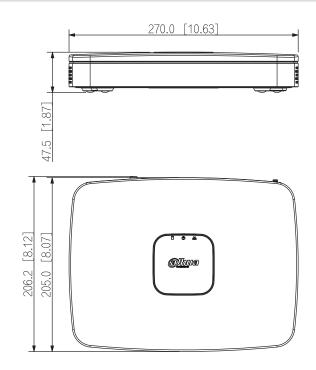
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Net Weight	0.70 kg (1.54 lb)	
Gross weight	1.80 kg (3.97 lb)	
Product Dimensions	270 mm × 206.3 mm × 47.5 mm (10.63" × 8.12" × 1.87") (W × L × H)	
Package Dimensions	96 mm × 364 mm × 261 mm (3.78" × 14.33" × 10.28") (W × L × H)	
Operating Temperature	-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	

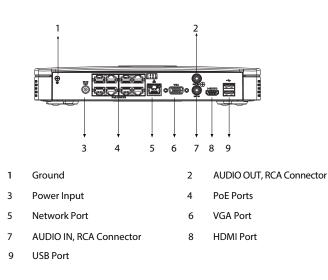
### **Ordering Information**

Туре	Model	Description
8 Channel	DHI-NVR2108-	8 Channel Smart 1U 8PoE WizSense
WizSense NVR	8P-12	Network Video Recorder

## Dimensions (mm[inch])



#### Panels



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