



# DHI-NVR2208-I

## 8 Channel 1U 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 economical 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/exits, and perimeter protection of people and vehicles.

## **Functions**

## **New User Interface**

Local and web interfaces adopt the new UI 4.0 style which caters to users habits. Functional modules are divided more clearly and easier to understand.

#### Decoding (Smart H.265+/Smart H.264+)

Dahua smart encoding (H.265+/ H.264+) is the optimized implementation of (H.265/H.264) codec that uses a scene-adaptive code rate control algorithm, providing more efficiency in the encoding process and higher video quality, and reducing the cost of storage and transmission significantly. This NVR supports the corresponding decoding.

## **SMD Plus**

SMD Plus, referred to as Smart Motion Detection Plus, which is an upgrading version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithm. It analyzes person and vehicle shapes based on motion detection and sends alarms only when person or vehicle intrudes.

- · New 4.0 user interface
- Remote surveillance, live view and video play on mobile phone App
- Max. decoding capability: 4 × 1080p@30fps. Supports adaptive decoding
- Supports mainstream cameras of ONVIF and RTSP protocols
- H.264/.H265/Smart H.264+/Smart H.265+/MJPEG, H.265 auto switch
- 1 VGA/1 HDMI simultaneous video output by default, the maximum resolution of HDMI is 4K; and non-simultaneous video output is also supported, the maximum resolution is 1080p
- 1-channel face detection and recognition (AI by NVR); or 2-channel perimeter detection (AI by NVR); or 4-channel SMD (AI by NVR); up to 10 face databases and 5,000 face images
- · Security baseline 2.1















#### 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**

Face recognition is to figure out the captured face with target features, and compare them with the face database to identify the personnel.

#### **Perimeter Protection**

Based on the deep learning algorithm, perimeter protection provides accurate human and vehicle classification detection. It grealy reduces false alarms by smartly detecting behaviors such as tripwire and intrusion according to the detected object in restricted areas (e.g., for human or vehicle) .

Adam Linkage  Trigger Events  Agam Linkage  Adam Linkage	Technical Specification		Database Management	Up to 10 face databases with 5,000 face images total. Name, gender, birthday, address, certifica cerificate No., countries&regions and state can to each face picture
Database Application independently system techniques (December 1997) independently system (December 1997) independently system (December 1997) in the control of the contro	System			
peration interface  Web/operating in local GUI  Alarm Linkage  Web rock (Alarm Cut, 177 Activation, size, 177	Main Processor	Industrial-grade embedded processor	Database Application	
Again Line Face of Methysperating in local GUI  Alarm Linkage Video recording, shasehot, log, preset, tour Cocess channel  8 dannels  Perimeter Protection  Performance 2 channels  Boldings for access, 80 Melps for storage and 60 Melps for Storage for Storage and 60 Melps	Operating System	Embedded Linux	Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Reco
Access Channel R charmels  Setwork Bandwidth  Storm Bandwidth  A Search  Search by target classification from the interest of the storm between the monitoring mental part of the storm repolition of 1004 is 4K.  Storm Bandwidth  Alarm  Anomaly Alarm  Monton detection, privary making, video loss interest of the storm between the monitoring mental part of the storm bet	Operation Interface	Web/operating in local GUI		
setwork Randwidth so Manager for access, 50 Mbps for storage and 60 Mbps for forwarding solution 12M8M/SM/MM/SM/2M/70p/D1 1  1-channel 3M8M/SM/MM/SM/2M/70p/D1 1  1-channel 3M8M/SM/MM/SM/2M/MM/SM/ZM/MM/SM/2M/MM/SM/ZM/MM/SM/ZM/MM/SM/ZM/MM/SM/ZM/ZM/ZM/ZM/ZM/ZM/ZM/ZM/ZM/ZM/ZM/ZM/ZM	Video			
Selevork Bandwidth  So Mips for access, 80 Mips for storage and 60 Mips for for access, 80 Mips for storage and 60 Mips for formations  22M/8M/SM/3M/3M/2M/2D0/01  Al Search  Sourch by target classification frustrusion  Source and Alarm  Motion detection promotion  External Port  HDD  Source E	Access Channel	8 channels		
Internation   12M/SM/SM/AM/AM/2M/ZVQP/D1   All Search   Search by target classification (human, vehicle recording Capability   1-thorned SMF8 30fbs   4-thorned 15M8 (950bs	Network Bandwidth			
Lecarding Capability  L-charmed BMR @ 300ps  A-charmed BMR @ 300ps  Anomaly Alarm  Anomaly Alarm  Front-mend device going offline, storage error, file  PCM party Camera Access  Owdf, RTSP  Anomaly Alarm  Anomaly Alarm  Product, MAC coefflict, login lock, networks anomaly  Anomaly Alarm  Product, MAC coefflict, login lock, networks anomaly  Anomaly Alarm  Production of HDAR BR @ 25MR ports, up to 8 18 for a signe HDD. The  HDD  Alarm Linkage  Video recording, snapshor, log, preset, tour  External Port  USB  I front USB 2.0 port, 1 rear USB 2.0 port  HDD  Alarm Linkage  Video recording, snapshor, log, preset, tour  External Port  USB  I front USB 2.0 port, 1 rear USB 2.0 port  HDD  Alarm Linkage  Video recording, snapshor, log, preset, tour  USB  I front USB 2.0 port, 1 rear USB 2.0 port  HDD  Alarm Linkage  Video recording, snapshor, log, preset, tour  USB  I front USB 2.0 port, 1 rear USB 2.0 port  HDD  Alarm Linkage  Video recording, snapshor, log, preset, tour  USB  I front USB 2.0 port, 1 rear USB 2.0 port  HDD  Alarm Linkage  Video recording, snapshor, log, preset, tour  USB  I front USB 2.0 port, 1 rear USB 2.0 port  HDD  Alarm Linkage  Video recording, snapshor, log, preset, tour  USB  I front USB 2.0 port, 1 rear USB 2.0 port  HDD  Alarm Linkage  Video recording, snapshor, log, preset, tour  USB  I front USB 2.0 port, 1 rear USB 2.0 port  HDD  Alarm Linkage  Video recording, snapshor, log, preset, tour  USB  I front USB 2.0 port, 1 rear USB 2.0 port  HDD  Alarm Linkage  Video recording, snapshor, log, preset, tour  USB  I front USB 2.0 port, 1 rear USB 2.0 port  HDD  Alarm Linkage  Video recording, snapshor, log, preset, tour  USB  I front USB 2.0 port, 1 rear USB 2.0 port  HDD  Alarm Linkage  Video recording, snapshor, log, preset, tour  USB  I front USB 2.0 port, 1 rear USB 2.0 port  HDD  Alarm Linkage  Video recording, snapshor, log, preset, tour  USB  I front USB 2	Resolution	12M/8M/5M/4M/3M/2M/720p/D1		
the dulption of HDMI is 4K  General Alarm  Motion detection, privacy making, who loss.  Auth-screen Display  1/4/8/9  Anomaly Alarm  Front-end device going offline, storage error, for anomaly  Anomaly Alarm  Front-end device going offline, storage error, for anomaly  Anomaly Alarm  Anomaly Alarm  Front-end device going offline, storage error, for anomaly  Video recording, snapshot, log, preset, tour  External Port  HDD  2 SATA ports, up to 8 TB for a single HDD. The HDD (apacity varies with environment temper upon the property varies with environment temper upon the pro	Decoding Capability			Search by target classification (human, vehicle
hird Party Camera Access Onvif, RTSP Anomaly Alarm Permittic, MAC conflict, logic lock, network anomaly Anomaly Alarm Permittic, MAC conflict, logic lock, network anomaly Video recording, snapshot, log, preset, tour External Port  External Port  Liddo  H.264/H265/Smart H.264/Smart H.264/Smart H.265+/MJPEG  Liddo  PCM/G7112/G72112/G726/AAC  Liddo  PCM/G7112/G72112/G726/AAC  Liddo  PCM/G7112/G72112/G726/AAC  Liddo  PCM/G7112/G72112/G726/AAC  Liddo  PCM/G7112/G72112/G726/AAC  Liddo  Liddo  PCM/G7112/G72112/G726/AAC  Liddo  Liddo  PCM/G7112/G72112/G726/AAC  Liddo  Liddo  Liddo  Liddo  PCM/G7112/G72112/G726/AAC  Liddo  Lid	Video Output			
Alarm Linkage Video recording, snapshot, log, preset, tour video (PCM/G711a/G711u/G26/AAC)  Network  Network  Network Protocol DNS  Network Protocol Protocol DNS  Network Protocol Playback Protocol DNS  Network Protocol DNS  Network Protocol Playback Protocol DNS  Network Protocol DNS  Network Protocol DNS  Network Protocol DNS  Network Protocol Playback Protocol DNS  Network Protocol Protocol DNS  Network Protocol DNS  Network Protocol Protocol Protocol DNS  Network Protocol	Multi-screen Display	1/4/8/9		Front-end device going offline, storage error, for
External Port	Third Party Camera Access	Onvif, RTSP	Anomaly Alarm	· · ·
Network  Network Protocol  Non Interperability  Non Playback  Network Protocol  Non Interperability  Non Playback  Network Protocol  Network Protocol  Non Interperability  Non Playback  Network Protocol  Network Protocol  Network Protocol  Network Protocol  Network Protocol  Network Interperability  Network Inte	Compression		Alarm Linkage	Video recording, snapshot, log, preset, tour
HDD HDD capacity varies with environment temper  USB 1 front USB 2.0 port, 1 rear USB 2.0 port  HDMI 1  1 Mobile Phone Access Android, iOS  VGA 1  Network 1 RI-45 port (10/100 Mbps)  RCA Input 1  RCA Output 1  RCA Output 1  Ceneral Parameter  Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording > motion detection recording > timed recording > motion detection recording > timed recording > local HDD and network  Ackup USB device Net Weight 1.51 kg (3.33 lb)  I. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off  MD Plus  Pockage Dimensions 375 mm × 284.3 mm × 53 mm (W × L × H) 1.47.5 inch × 11.05 inch × 11.05 inch × 14.41 inch (W × L × H) 2.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch × 14.41 inch (W × L × H) 3.55 inch × 17.05 inch	Video	H.264/.H265/Smart H.264+/Smart H.265+/MJPEG	External Port	
Letwork Protocol   HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS   HDMI   1   1   1   1   1   1   1   1   1	Audio	PCM/G711A/G711U/G26/AAC	HDD	
Android, iOS  Android, iOS  VGA  1  Network  Network  RCA Input  RCA Input  RCA Output  1  RCA O	Network		USB	1 front USB 2.0 port, 1 rear USB 2.0 port
Accord Playback  Chrome, IE9 or above, Firefox  RCA Input  RCA Output  1  General Parameter  Power Supply  DC 12V, 4A  Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording  ackup  USB device  1. Play, pause, stop, fast forward, fast backward, rewind, play by frame  2. Full screen, backup (cut/file), partially enlarge, audio on/off  MDD Plus  erformance  4 channels  I Search  Search by target classification (human, vehicle)  ace Recognition  Max 8 face pictures/sec processing  erformance  Max 8 face pictures/sec processing  formation in device's face database). Similarity threshold can be set manually  Up to 8 target face images search at same time,	Network Protocol		HDMI	1
Record Playback  Record Playback  Aulti-channel Playback  Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording > timed recording > motion detection recording > timed recording > timed recording > motion detection recording > timed recording timed recording > timed recording timed recording timed recording	Mobile Phone Access	Android, iOS	VGA	1
RCA Input 1  RCA Output 1  RCA Output 1  RCA Output 1  RCA Output 1  General Parameter  Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording > motion detection recording > timed recording > torage Local HDD and network  Backup USB device Power Consumption Total output of NVR is ≤ 10W (without HDD)  1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off  MDP Plus  Package Dimensions Product Dimensions Pr	Interoperability	ONVIF (profile T/profile S/profile G), CGI, SDK	Network	1 RJ-45 port (10/100 Mbps)
Aulti-channel Playback  Aulti-channel Playback  Aulti-channel Playback  Aulti-channel Playback  Aulti-channel Playback  Aulti-channel Playback  Driority of record mode: Manual recording > alarm recording > motion detection recording > timed recording > motion detection recording > timed recording  Autorage  Local HDD and network  Auckup  USB device  1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off  Autorage  Aut	Browser	Chrome, IE9 or above, Firefox	RCA Input	1
Aulti-channel Playback  Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording > motion detection detection recording > timed recording > motion detection recording > timed recording > motion detection recording > timed recor	Record Playback		·	
Priority of record mode: Manual recording > alarm recording > motion detection that Detection to motion detection recording > motion detection to motion detection recording > motion detection for motion detection recording > motion detection for motion detection recording > motion detection for motion for motion for motion detection for motion for mo	Multi-channel Playback	Up to 8 channels playback	·	1
torage Local HDD and network  Local HDD and network  USB device  1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off  MD Plus  erformance  4 channels  Lisearch  Max 8 face pictures/sec processing  tranger Mode  Detect strangers' faces (not in device's face database). Similarity threshold can be set manually  Up to 8 target face images search at same time,  Net Weight  1.51 kg (3.33 lb)  1.51 kg (3.33 lb)  2.76 kg (6.08 lb)  Product Dimensions  375 mm × 284.3 mm × 53 mm (W × L × H) 4.76 inch × 11.19 inch × 2.09 inch (W × L × H) 5.55 inch × 11.19 inch × 2.09 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inc	Record Mode	recording > motion detection recording > timed		DC 12V, 4A
Ackup  USB device  1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off  MD Plus  erformance  4 channels  USB device  Ackup (cut/file), partially enlarge, audio on/off  Product Dimensions  Product Dimensions  14. The max 433 mm × 53 mm (W × L × H) 14.76 inch × 11.19 inch × 2.09 inch (W × L × H) 14.76 inch × 11.19 inch × 2.09	Storage	-	Power Consumption	Total output of NVR is ≤ 10W (without HDD)
1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off  MD Plus  erformance 4 channels  I Search Search by target classification (human, vehicle)  acce Recognition  Max 8 face pictures/sec processing 1 channel video stream face recognition  tranger Mode  Detect strangers' faces (not in device's face database). Similarity threshold can be set manually  Up to 8 target face images search at same time,  1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. 76 kg (6.08 lb)  Product Dimensions 375 mm × 284.3 mm × 53 mm (W × L × H) 14.76 inch × 11.19 inch × 2.09 inch (W × L × H) 15.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 16.41 inch (W × L × H) 5.55 inch × 17.05 inch × 16.41 inch (W × L × H) 5.55 inch × 17.05 inch × 16.41 inch (W × L × H) 5.55 inch × 17.05 inch × 16.41 inch (W × L × H) 5.55 inch × 17.05 inch × 16.41 inch (W × L × H) 5.55 inch × 17.05 inch × 16.41 inch (W × L × H) 5.55 inch × 17.05 inch × 16.41 inch (W × L × H) 5.55 inch × 17.05 inch × 16.41 inch (W × L × H) 5.55 inch × 17.05 inch × 16.41 inch (W × L × H) 5.55 inch × 17.05 inch × 16.41 inch (W × L × H) 5.55 inch × 17.05 inch × 16.41 inch (W × L × H) 5.55 inch × 17.			Net Weight	1.51 kg (3.33 lb)
layback Function    Product Dimensions   375 mm × 284.3 mm × 53 mm (W × L × H) 14.76 inch × 11.19 inch × 2.09 inch (W × L × H)	Баскир		Gross weight	2.76 kg (6.08 lb)
Package Dimensions  Package Dimensions  141 mm × 433 mm × 366 mm (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H)  Package Dimensions  141 mm × 433 mm × 366 mm (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H)  Operating Temperature  10°C to +55°C (+14°F to +113°F)  Storage Temperature  0°C to +40°C (+32°F to +104°F)  Operating Humidity  10%–93%  Storage Humidity  30%–85%  Operating Altitude 3000 m (9843 ft)  Installation  Desktop mounting	Playback Function	2. Full screen, backup (cut/file), partially enlarge, audio	Product Dimensions	
Package Dimensions  5.55 inch × 17.05 inch × 14.41 inch (W × L × H)  Operating Temperature  Operating Temperature  -10°C to +55°C (+14°F to +113°F)  Storage Temperature  O°C to +40°C (+32°F to +104°F)  Operating Humidity  Operating Humidity  10%—93%  Storage Humidity  30%—85%  Operating Altitude	SMD Plus		Dookers Dimension	
Search Search Search by target classification (human, vehicle)  Storage Temperature 0°C to +40°C (+32°F to +104°F)  Operating Humidity 10%–93%  Storage Humidity 30%–85%  Storage Humidity 30%–85%  Operating Altitude 3000 m (9843 ft)  Installation Desktop mounting	Performance	4 channels	rackage Dimensions	
acce Recognition  Max 8 face pictures/sec processing  operating Humidity  10%–93%  Storage Humidity  30%–85%  Tranger Mode  Detect strangers' faces (not in device's face database). Similarity threshold can be set manually  Up to 8 target face images search at same time,	Al Search	Search by target classification (human, vehicle)	Operating Temperature	-10°C to +55°C (+14°F to +113°F)
Max 8 face pictures/sec processing  1 channel video stream face recognition  Detect strangers' faces (not in device's face database). Similarity threshold can be set manually  Up to 8 target face images search at same time,	Face Recognition		Storage Temperature	0°C to +40°C (+32°F to +104°F)
1 channel video stream face recognition  Detect strangers' faces (not in device's face database). Similarity threshold can be set manually  Up to 8 target face images search at same time,		Max 8 face pictures/sec processing	Operating Humidity	10%–93%
tranger Mode Similarity threshold can be set manually Installation Desktop mounting Up to 8 target face images search at same time,	Performance	1 channel video stream face recognition	Storage Humidity	30%–85%
Installation Desktop mounting  Up to 8 target face images search at same time,	Stranger Mode		Operating Altitude	3000 m (9843 ft)
			Installation	Desktop mounting
	Al Search		Certifications	CE/FCC

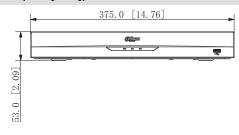


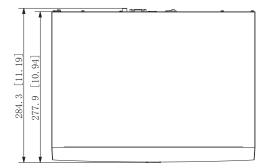
## **Ordering Information**

Type Model Description

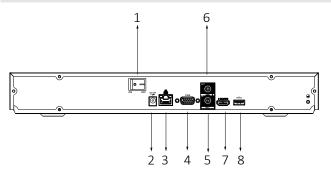
8 Channel WizSense NVR DHI-NVR2208-I 8 Channel 1U WizSense Network Video Recorder

## Dimensions (mm [inch])





## **Panels**



- 1 Power Switch 2 DC 12V Power Input
- 3 Network Port 4 VGA Port
- 5 AUDIO IN, RCA Connector 6 AUDIO OUT, RCA Connector
- 7 HDMI Port 8 USB Port