

# DHI-NVR2104-I

# 4 Channel Smart 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) .

Main Processor  Main Processor  Dat  Operating System  Embedded Linux  Operating System  Embedded Linux  Operating System  Web/operating in local GUI  Trig  Video  Access Channel  4 channels  80 Mbps for access, 80 Mbps for storage and 60 Mbps  for forwarding  Resolution  12M/8M/SM/4M/3M/2M/720p/D1  Obj  Decoding Capability  1-channel 8M/@30fps 4-channel 1080p@30fps 4-channel 1080p@30fps 4-channel 1080p@30fps 4-channel 1080p@30fps Actannel resolution of HDMI is 4K  Multi-screen Display  1/4  Third Party Camera Access  Onvif, RTSP  And  Compression  Video  H. 264/H265/Smart H. 264+/Smart H. 265+/MJPEG  Audio  PCM/G711A/G711U/G26/AAC  Network  Network Protocol  Mobile Phone Access  Android, IOS  Interoperability  ONVIF (profile T/profile S/profile G), CGI, SDK  Networker  Record Playback  Multi-channel Playback  Up to 4 channels playback  Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording > UsB device  1. Play, pause, stop, fast forward, fast backward, revvind, play by frame 2. Pull screen, backup (cut/file), partially enlarge, audio on/off  SMD Plus  Performance  4 channels  Al Sace pictures/sec processing  Performance  Max 8 face pictures/sec processing  1. channel video stream face recognition  Operating System  Us 8 tarce pictures/sec processing  1. channel video stream face recognition  Operating Stranger Mode  Detect strangers' faces (not in device's face database). Similarity threshold can be set manually  Inst. United Stranger Image Image Image Image Image.  Inst. United Stranger Mode  Detect strangers' faces (not in device's face database). Similarity threshold can be set manually  Inst. United Stranger Mode  Proventing Stranger Image Image.  Inst. United Strangers' faces (not in device's face database). Similarity threshold can be set manually	Technical Specification	on	
Operating System  Embedded Linux  Operation Interface  Web/operating in local GUI  Video  Access Channel  4 channels  Bo Mbps for access, 80 Mbps for storage and 60 Mbps for for for forwarding for forwarding mesolution  12M/BM/SM/4M/3M/2M/720p/01  Decoding Capability  1-channel 8M/B/30fps 4-channel 1080p/B/30fps 4-channel Flow Missimutaneous video output by default, the maximum resolution of HDMI is 4K  Multi-screen Display 1/4  Anomaly Alarm	System		Database Manageme
Operation Interface  Web/operating in local GUI  Trigger Events  Alarm Linkage  Access Channel  Access Channel  Access Channel  Access Channel  Access Channel  Access Channel  Bo Mobs for access, 80 Mbps for storage and 60 Mbps for forwarding  Bo Mobs for access, 80 Mbps for storage and 60 Mbps for forwarding  Bo Mobs for access, 80 Mbps for storage and 60 Mbps for forwarding  Object classification  Al Search  Alarm  General Alarm  Multi-screen Display  I/4  Anomaly Alarm  Compression  Alarm Linkage  External Port  HDD  Alarm Linkage  External Port  HDD  WGA  Network  Network Protocol  DNS  Mobile Phone Access  Android, IOS  Notineroperability  ONVIF (profile 1/profile S/profile G), CGI, SDK  Record Playback  Multi-channel Playback  Multi-channel Playback  Priority of record mode: Manual recording > alarm recording > modern mod	Main Processor	Industrial-grade embedded processor	
Video  Access Channel  4 channels  80 Mbps for access, 80 Mbps for storage and 60 Mbps for forwarding  Resolution  12M/8M/5M/4M/3M/2M/20p/001  Decoding Capability  4 channel 18M6pe 30fps 4 channel 18M6pe 30fps Video Output  1 VGA/1 HDM1 simultaneous video output by default, the maximum resolution of HDM1 is 4K  Multi-screen Display  7 Third Party Camera Access  Omif, RTSP  Compression  Video  H.264/H265/5mart H.264+/5mart H.265+/MIPEG  Audio  PCM/G711A/G7111V/G26/AAC  Network  Network Protocol  MTIP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS  Mobile Phone Access  Android, iOS  Network  Record Playback  Multi-channel Playback  Priority of record mode: Manual recording > alarm recording  Record Mode  Record mode: Local HDD and network  Backup  USB device  Disb Video  List gouse, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/flie), partially enlarge, audio on/off  SMD Plus  Performance  4 channels  Alsearch  Alarm Linkage  External Port  Alarm  Anomaly Alarm  Anomaly Alarm  Anomaly Alarm  Ceneral Alarm  Anomaly Alarm  Ceneral Port  HDD  USB  HDMI  VGA  Network  RCA Input  RCA Output  RCA Output  RCA Output  General Paramet  Power Supply  Power Consumption  Net Weight  Power Supply  Power Consumption  Net Weight  Power Supply  Power Consumption  Net Weight  Port Supply Prame 2. Full screen, backup (cut/flie), partially enlarge, audio on/off  SMD Plus  Performance  4 channels  Alsearch  Search by target classification (human, vehicle)  Face Recognition  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  Operating Altitude  Installation	Operating System	Embedded Linux	Database Application
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Network Bandwidth   80 Mbps for access, 80 Mbps for storage and 60 Mbps for forwarding   Performance for forwarding   Resolution   12M/8M/5M/4M/3M/2M/720p/D1   Object classification   Al Search   Al Search   Achannel 8MP@30fps   Al Search   Al	Video		Alarm Linkage
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Decoding Capability  1-channel 8MP@30fps 4-channel 1080p@30fps 4-channel 1080p@30fps 1 YGA/1 HDMI simultaneous video output by default, the maximum resolution of HDMI is 4K  Multi-screen Display 1/4  Third Party Camera Access Onvif, RTSP  Anomaly Alarm  Anomaly Alarm  Alarm Linkage  External Port  HDD  Video H264/H265/Smart H264+/Smart H265+/MIPEG  Audio PCM/G711A/G711U/G26/AAC  Network  Network Protocol DNS  Mobile Phone Access Android, IOS Interoperability ONVIF (profile T/profile S/profile G), CGI, SDK  Browser Chrome, IE9 or above, Firefox  Record Playback  Multi-channel Playback Up to 4 channels playback Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording s motion detection recording > timed recording a motion detection recording > timed recording a motion detection recording > timed Power Consumption  Net Weight  Storage Local HDD and network Playback Function  1 Play, pause, stop, fast forward, fast backward, rewind, Playback Function 2 Full screen, backup (cut/file), partially enlarge, audio on/off  SMD Plus  Performance 4 channels Al Search Detect strangers' faces (not in device's face database). Similarity threshold can be set manually Unstallation Unstallation	Resolution	-	Object classification
Nideo Output  1 YGA/I HDMI simultaneous video output by default, the maximum resolution of HDMI is 4K  Multi-screen Display  1/4  Third Party Camera Access  Onvif, RTSP  Anomaly Alarm  Alarm Linkage  External Port  Audio  PCM/G711A/G711U/G26/AAC  Network  Network Protocol  NNS  Mobile Phone Access  Android, IOS  Interoperability  ONVIF (profile T/profile S/profile G), CGI, SDK  Browser  Chrome, IE9 or above, Firefox  Record Playback  Multi-channel Playback  Up to 4 channels playback  Priority of record mode: Manual recording > timed recording > motion detection recording > timed recording > motion detection recording > timed recording > motion detection recording > timed recording   Power Consumption  Net Weight  Storage  Local HDD and network  Backup  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  SMD Plus  Performance  4 channels  Alsearch  Search by target classification (human, vehicle)  Face Recognition  Max 8 face pictures/sec processing  1. channel video stream face recognition  Departing Altitude  External Port  Alarm Linkage  Alarm  General Alarm  Alarm  Alarm  Anomaly Alarm  Anomaly Alarm  Anomaly Alarm  Anomaly Alarm  Linkage  External Port  HDD  USB  External Port  HDD  USB  HDMI  WGA  Network  RCA Input  RCA Output  General Parameter  RCA Output  General Parameter  Power Supply  Power Consumption  Net Weight  Gross weight  Product Dimensions  Product Dimensions  Operating Temperature  Storage Temperature  Storage Temperature  Operating Humidity  Operating Altitude  Installation			Al Search
Multi-screen Display 1/4  Third Party Camera Access Onvif, RTSP  Compression  Video H.264/.H265/Smart H.264+/Smart H.265+/MJPEG Audio PCM/G711A/G711U/G26/AAC  Network Network Network Protocol Miltip HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS  Mobile Phone Access Android, IOS Interoperability ONVIF (profile T/profile S/profile G), CGI, SDK  Record Playback Multi-channel Playback Multi-channel Playback Video Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording > motion detection recording > timed recording > motion detection recording > timed recording > motion detection recording > power Consumption Net Weight  General Parameter  Power Supply  Power			Alarm
Third Party Camera Access  Compression  Video H.264/.H265/Smart H.264+/Smart H.265+/MJPEG  Audio PCM/G711A/G711U/G26/AAC  Network  Network Protocol HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS  Mobile Phone Access Android, IOS  Interoperability ONVIF (profile T/profile S/profile G), CGI, SDK  Browser Chrome, IE9 or above, Firefox  Record Playback  Multi-channel Playback  Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording > power Consumption  Net Weight  Power Consumption  Net Weight  Gross weight  Product Dimensions  SMD Plus  Performance  4 channels  Al Search Search by target classification (human, vehicle)  Face Recognition  Max 8 face pictures/sec processing  1 channel video stream face recognition  Operating Humidity  Storage Humidity  Operating Altitude  Installation	Video Output		General Alarm
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Audio  PCM/G711A/G711U/G26/AAC  Network  Network Protocol  Mobile Phone Access Android, IOS  Interoperability  ONVIF (profile T/profile S/profile G), CGI, SDK  Browser Chrome, IE9 or above, Firefox  Record Playback  Multi-channel Playback  Priority of record mode: Manual recording > alarm recording > meteored medication medication recording > meteored medication medication recording > meteored medication medica	Compression		Alarm Linkage
Network  Network Protocol  Network Protocol  DNS  Mobile Phone Access Android, iOS  Mobile Phone Access Android, iOS  Network Protocol  Mobile Phone Access Android, iOS  Network  Browser Chrome, IE9 or above, Firefox  Record Playback  Multi-channel Playback  Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recordin	Video	H.264/.H265/Smart H.264+/Smart H.265+/MJPEG	External Port
Network Protocol   HTTP, HTTPS, TCP/IP, IPv4, IPv6, RTSP, UDP, NTP, DHCP, DNS   HDMI		PCM/G711A/G711U/G26/AAC	HDD
Network Protocol  DNS  Android, iOS  Android, iOS  Network  Browser  Chrome, IE9 or above, Firefox  Record Playback  Multi-channel Playback  Up to 4 channels playback  Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording timed recording > timed recording > timed recording timed recording timed recording timed recor	Network		LICD
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Browser Chrome, IE9 or above, Firefox  Record Playback  Multi-channel Playback  Multi-channel Playback  Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording  Backup  Local HDD and network  Backup  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  SMD Plus  Performance  4 channels  Search by target classification (human, vehicle)  Face Recognition  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  Lin to 8 target face images search at same time.	Interoperability	ONVIF (profile T/profile S/profile G), CGI, SDK	
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Playback Function  1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off  Package Dimensions  Package Dimensions  Package Dimensions  Operating Temperature  Storage Temperature  Storage Temperature  Operating Humidity  Storage Humidity  Storage Humidity  Operating Altitude  Stranger Mode  Detect strangers' faces (not in device's face database). Similarity threshold can be set manually  Lin to 8 target face images search at same time	Backup	USB device	Net Weight
Playback Function  2. Full screen, backup (cut/file), partially enlarge, audio on/off  Product Dimensions  Package Dimensions  Package Dimensions  Operating Temperature  Storage Temperature  Storage Temperature  Face Recognition  Max 8 face pictures/sec processing  1 channel video stream face recognition  Operating Humidity  Storage Humidity  Operating Altitude  Stranger Mode  Detect strangers' faces (not in device's face database). Similarity threshold can be set manually  In to 8 target face images search at same time			Gross weight
Performance 4 channels  Operating Temperature  Al Search Search by target classification (human, vehicle)  Face Recognition  Operating Temperature  Storage Temperature  Operating Humidity  Storage Humidity  1 channel video stream face recognition  Operating Altitude  Stranger Mode  Detect strangers' faces (not in device's face database). Similarity threshold can be set manually  Installation	Playback Function	2. Full screen, backup (cut/file), partially enlarge, audio	Product Dimensions
Al Search Search by target classification (human, vehicle)  Face Recognition  Max 8 face pictures/sec processing  Performance  1 channel video stream face recognition  Operating Humidity  Storage Humidity  Operating Altitude  Stranger Mode  Detect strangers' faces (not in device's face database). Similarity threshold can be set manually  Installation	SMD Plus		Package Dimensions
Al Search  Search by target classification (human, vehicle)  Storage Temperature  Operating Humidity  Max 8 face pictures/sec processing  Storage Humidity  1 channel video stream face recognition  Operating Altitude  Stranger Mode  Detect strangers' faces (not in device's face database). Similarity threshold can be set manually  Installation  Lin to 8 target face images search at same time	Performance	4 channels	Operating Temperature
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Performance  Max 8 face pictures/sec processing  Storage Humidity  1 channel video stream face recognition  Operating Altitude  Stranger Mode  Detect strangers' faces (not in device's face database).  Similarity threshold can be set manually  Installation	Face Recognition		
1 channel video stream face recognition  Operating Altitude  Stranger Mode  Detect strangers' faces (not in device's face database).  Similarity threshold can be set manually  Installation  Up to 8 target face images search at same time.	Performance	Max 8 face pictures/sec processing	
Stranger Mode  Detect strangers' faces (not in device's face database). Similarity threshold can be set manually  Installation  Lin to 8 target face images search at same time	i criormatice	1 channel video stream face recognition	
Un to 8 target face images search at same time	Stranger Mode		
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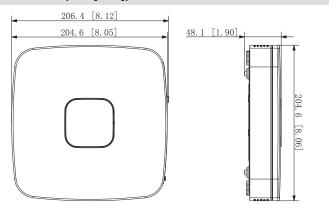


# **Ordering Information**

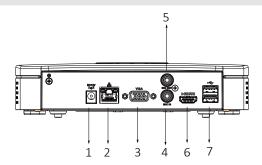
Type Model Description

4 Channel Smart 1U WizSense NvR WizSense NVR 4 Channel Smart 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