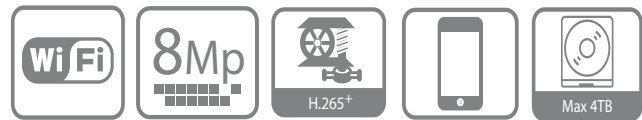**Dahua**
TECHNOLOGY

DHI-NVR2104/2108HS-W-4KS2

4/8 Channel Compact 1U Lite 4K H.265 Wireless Network Video Recorder

- Support IEEE802.11b/g/n(2.4GHz)
- Support two-antenna to strenthen the Wi-Fi signal
- H.265+/H.264+ codec decoding
- Max 80Mbps wire incoming bandwidth
- Max 24Mbps wireless incoming bandwidth
- Up to 1ch@8MP/4ch@1080P decoding

System Overview

Dahua's third generation network video recorder embedded Wi-Fi module to support wireless AP function, support automatic detection and connection of IP camera from Dahua without any operation. In addition, it has two-antenna for a strong wireless network signal. IEEE 802.11 b/g/n (2.4 GHz) Wi-Fi covers wider and further area. Also, this NVR can support wire IP cameras accessing, making the installation more flexible.

Without the limitation of the network cable, this NVR is ideal for a wide range of applicaiton such as home safety, cafe, retail, grocery, education and other industries.

Combination with Dahua wireless camera makes the perfect solution for surveillance systems that work independently of video management system (VMS). It features an open architecture that supports for multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with IP cameras.

Functions

WiFi AP

With built-in Wi-Fi module, this NVR can supply Wi-Fi access point for wireless devices. Setting SSID and password to construct a dedicated wireless network, it will makes the wireless transmission more reliable and safe. Besides, IEEE802.11b/g/n(2.4G Hz) Wi-Fi covers wider and further area.

8MP Resolution

8MP resolution is a revolutionary breakthrough in image processing technology. 8MP delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 8MP resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

DMSS

The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access NVR devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

ONVIF

Technical Specification

System

Main Processor	Dual-core embedded processor
Operating System	Embedded LINUX

Audio and Video

IP Camera Input	4/8 Channel
Two-way Talk	N/A

Display

Interface	1 HDMI, 1 VGA
Resolution	HDMI: 3840×2160, 1920×1080, 1280×1024, 1280×720
	VGA: 1920×1080, 1280×1024, 1280×720
Decoding Capacity	1ch@8MP 30fps, 4ch@1080P 30fps
Multi-screen Display	4CH: 1/4
	8CH: 1/4/8/9
OSD	Camera title, Time, Camera lock, Motion detection, Recording

Recording

Compression	H.265+/H.264+/H.265/H.264
Resolution	8MP/6MP/5MP/4MP/3MP/1080P/720P/D1&etc.
Record Rate	80Mbps
Bit Rate	16Kbps ~ 20Mbps Per Channel
Record Mode	Manual, Schedule(Regular(Continuous), MD, Stop
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec

Video Detection and Alarm

Trigger Events	Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), and Tampering
Alarm input	N/A
Relay Output	N/A

Playback and Backup

Sync Playback	1/4
Search Mode	Time /Date, MD and Exact Search (accurate to second)
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom
Backup Mode	USB Device/Network

Third-party Support

Third-party Support	Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more

Network

Interface	1 RJ-45 port (10/100Mbps)
Wireless	IEEE802.11b/g/n(2.4GHz)
PoE	N/A
Network Function	HTTP/HTTPS, TCP/IP, IPv4/IPv6, RTSP, UDP, NTP, DHCP, DNS, IP Filter, DDNS, IP Search(Support Dahua IP camera, DVR, NVS and etc.), P2P
Optical Fiber Interface	N/A
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4, SDK, CGI

Storage

Internal HDD	1 SATA III Port, up to 4TB capacity for each HDD
HDD Mode	Single
eSATA	N/A

Auxiliary Interface

USB	2 ports (2 USB2.0)
RS232	N/A
RS485	N/A

Electrical

Power Supply	Single, DC12V/2A
Power Consumption	<6.6W (without HDD)

Environmental

Operating Conditions	0°C ~ +40°C (+32°F ~ +104°F), 86 ~ 106kpa
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH

Construction

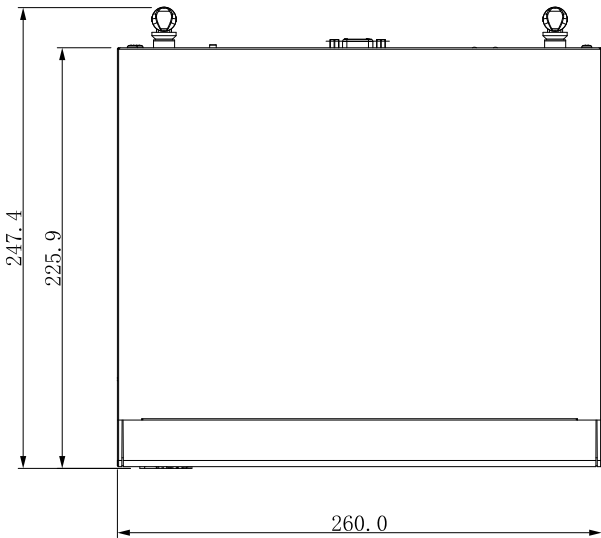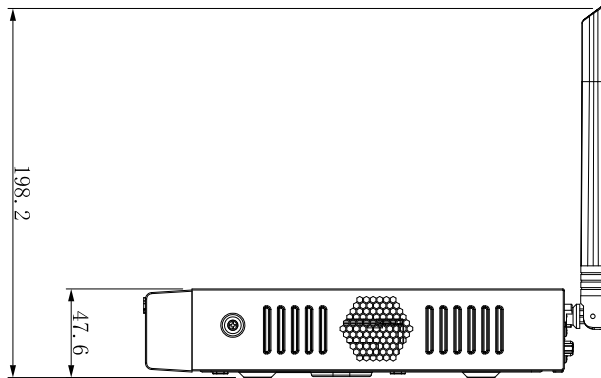|	
Dimensions(W×D×H)	Compact 1U, 226mm×226.9mm×40.4mm (8.9" x 8.9" x 1.6")
Net Weight	1.3 kg (2.9lb) (without HDD)
Gross Weight	2.0 kg(4.4 lb)(without HDD)

Certifications

CE	EN55032, EN55024, EN50130-4, EN60950-1
FCC	Part 15 Subpart B, ANSI C63.4-2014
UL	UL60950-1

Ordering Information

Type	Part Number	Description
4 Channel NVR	DHI-NVR2104HS-W-4KS2	4 Channel Compact 1U Lite 4K H.265 Wireless Network Video Recorder
8 Channel NVR	DHI-NVR2108HS-W-4KS2	8 Channel Compactt 1U Lite 4K H.265 Wireless Network Video Recorder
Accessories	N/A	N/A

Dimensions (mm)

Rear Panel