DHI-NVR2108HC-W

Dahua 8CH 1HDD Cooper 1U WIRELESS NETWORK RECORDER



- Automatic pairing with wireless cameras.
- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- Max. decoding capability: 10 × 1080p@30 fps or 4 × 5MP@30 fps.
- Max. 80/80/80 Mbps incoming/recording/outgoing bandwidth.
- Supports IP cameras with a resolution up to 16 MP.
- AI by Recorder supports 4-channel SMD Plus.
- AI by Camera supports perimeter protection and SMD.
- Supports one-click arming and disarming.



Series Overview

With its advanced system, the Dahua Wireless Series NVR performs optimally, automatically detecting and connecting to Wi-Fi cameras to instantly generate live videos. It comes with an embedded Wi-Fi module that supports a wide range of Wi-Fi standards, including IEEE 802.11b/g/n/a/ac/ax. Equipped with dual high-gain antennas, its signals are highly stable, covering an extensive area, enabling the NVR to deliver reliable wireless connectivity. Additionally, the NVR features AP mode for creating dedicated surveillance networks, as well as Station mode for ensuring stable transmission and unparalleled deployment flexibility. Its unique design eliminates the need for network cables, making it a convenient solution for integrating wireless cameras into surveillance systems for small to medium-sized businesses. Ideal for houses, cafés, supermarkets, retail stores, and various other locations, the Dahua Wireless Series NVR is a practical choice for modern surveillance needs.

Functions

6th Generation Wi-Fi

With its embedded Wi-Fi 6 module, the Wi-Fi NVR is not only highly stable, but also offers fast transmission rates, low-latency and extensive coverage, enabling efficient and reliable monitoring.

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.

Perimeter Protection by Camera

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

Technical Specification

System

Main Processor	Industrial-grade processor
Operating System	Embedded Linux
Operating Interface	Web, Local GUI

AI

AI by Recorder	SMD Plus
AI by Camera	Perimeter protection; SMD

Perimeter Protection

Perimeter Performance of AI by Camera (Number of Channels)	All channels (8 targets/s)

SMD

SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change
SMD by Camera	All channels (16 targets/s)

Audio and Video

Access Channel	8 channels
Network Bandwidth	AI disabled: 80 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing AI enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing
Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF
Decoding Capability	AI disabled: 1-channel 16 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel 6 MP@30 fps; 4-channel 5 MP@30 fps; 5-channel 4 MP@30 fps; 6-channel 3 MP@30 fps; 8-channel 2 MP@30 fps AI enabled: 1-channel 12 MP@30 fps; 2-channel 6 MP@30 fps; 3-channel 4 MP@30 fps; 4-channel 3 MP@30 fps; 6-channel 1080p@30 fps; 8-channel 720p@30 fps
Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Multi-screen Display	1/4/8/9
Third-party Camera Access	ONVIF

Compression Standard

Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Audio Compression	G.711a; G.711u; PCM; G726

Network

Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; IP Filter; DDNS; IP Search (Supports IP camera, DVR, NVS, etc.); P2P; Auto Registration
Mobile Phone Access	iOS; Android
Interoperability	ONVIF 24.12(Profile T; Profile S; Profile G); CGI; SDK
Browser	Chrome; IE; Safari; Edge; Firefox

Wi-Fi

Wi-Fi Standard	802.11b/g/n/a/ac/ax
Frequency Range	2400-2483.5MHz, 5150-5350MHz, 5470-5725MHz, 5725-5850MHz
Transmitter Power (EIRP)	CE EIRP: ≤20dBm@2400-2483.5MHz; ≤23dBm@5150-5250MHz; ≤20dBm@5250-5350MHz; ≤27dBm@5470-5725MHz; ≤14dBm@5725-5850MHz

Recording Playback

Multi-channel Playback	Up to 8 channels
Record Mode	General, motion detection; intelligent; alarm
Backup Method	USB device and network
Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback

Alarm

General Alarm	Motion detection; camera external alarm; PIR alarm
Anomaly Alarm	Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline
Intelligent Alarm	Perimeter protection; SMD Plus
Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; tour

Port

Disk Interface	1 SATA port. Each disk can contain up to 20 TB. This limit varies depending on the environment temperature.
USB	2 (2 rear USB 2.0 ports)
HDMI	1
VGA	1
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)
Antenna	2

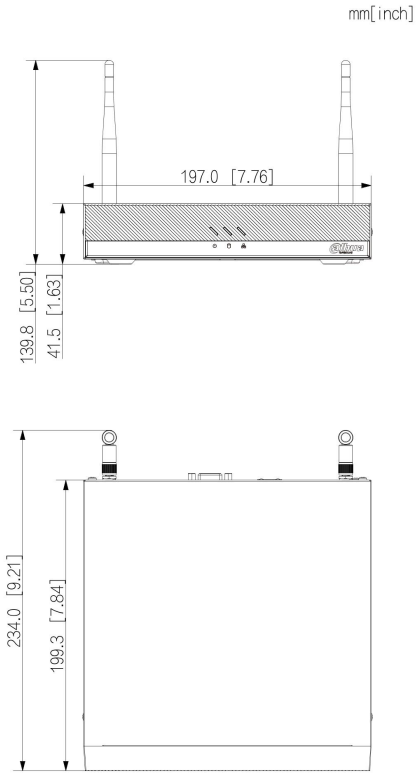
General

Power Supply	12 VDC, 1.5 A
Power Consumption	<6 W (without HDD)
Net Weight	0.57 kg (1.26 lb)
Gross Weight	0.98 kg (2.16 lb)
Product Dimensions	197.0 mm × 234.0 mm × 41.5 mm (7.76" × 9.21" × 1.63") (W × D × H)
Packaging Dimensions	332.0 mm × 240.0 mm × 64.0 mm (13.07" × 9.45" × 2.52") (W × D × H)
Operating Temperature	–10 °C to +45 °C (+14 °F to +113 °F)
Storage Temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Operating Humidity	10%–93% (RH), non-condensing
Certifications	CE-LVD: IEC 62368-1:2014 CE-EMC: EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN 55024:2010+A1:2015, EN 50130-4:2011+A1:2014

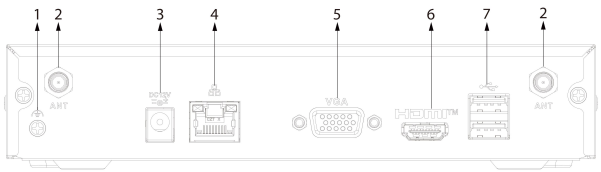
Ordering Information

Type	Model	Description
NETWORK VIDEO RECORDER	DHI-NVR2108HC-W	Dahua 8CH 1HDD Cooper 1U WIRELESS NETWORK RECORDER

Dimensions (mm[inch])



Panels



1 Ground
2 Antenna Port
3 Power Input
4 Network Port
5 VGA Port
6 HDMI Port
7 USB Ports

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