

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.

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.

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.

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

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|---------------------------|---|
| 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

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

Network

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|---------------------|---|
| 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

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|------------------------|--|
| 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 |

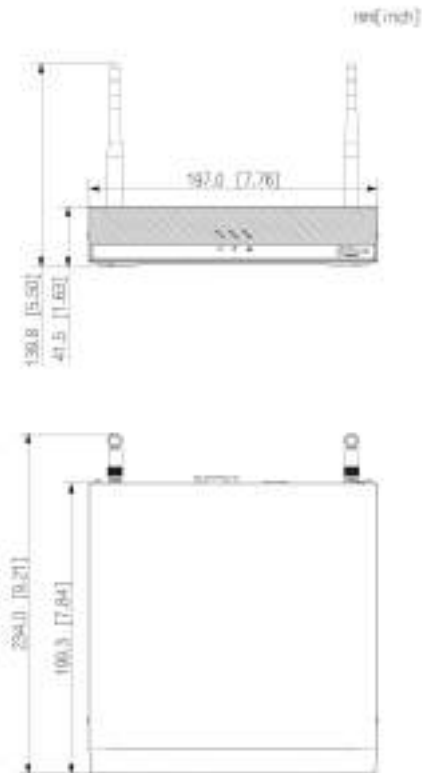
General

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|-----------------------|--|
| 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