Tech specs

SUPERIOR

Superior NVR H2DAI2GAC (8-ch)

8-channel AI-powered network video recorder with 4K HDMI output, two Gigabit Ethernet interfaces, and support for two hot-swappable HDDs



Video

Video input

8 channels

Recording resolution

12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, UXGA, 720p, VGA, 4CIF, DCIF, 2CIF, CIF, QCIF

HDMI output resolution

3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 px

Live view / playback resolution

12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p, D1, VGA, CIF

Decoding

Format

H.265, H.264, JetSparrow

Capability

- 2 × channel at 4096 × 4096 px (25 fps)
- 4 × channel at 3840 × 2160 px (25 fps) and 4 × channel at 1980 × 1080 px (25 fps)
- 4 × channel at 3840 × 2160 px (25 fps), 1 × channel at 2880 × 1620 px (25 fps), and 1 × channel at 1024 × 576 px (25 fps)
- 8 × channel at 2880 × 1620 px (25 fps)

Live view window division

templates: 1, 4, 9, 16, 25, 5+1, 7+1, 12+1 views

custom: up to 10×10 views

Synchronous playback

4 channels

Intelligent video analytics

Motion detection

Ajax camera: 8 channels

Ajax NVR: 8 channels

Ajax NVR features built-in software to detect movement in the frame. It is possible to switch between image analysis by Ajax NVR or camera algorithms in an Ajax app.

AI-powered object detection

People
Pets
Vehicles
Line crossing

Interface

HDD/SSD

2 × SATA III: supports drives with up to 24 TB capacity (2.5" and 3.5" form factors)

Supports full hot-swap functionality. HDDs or SSDs are not included.

Network

2 × RJ-45 (WAN and LAN) self-adaptive Ethernet (10/100/1000 Mbps)

USB

rear panel: 2 × USB 2.0 (Type-A)

For connecting a keyboard, mouse, or USB Audio Device Class devices (Audio IN/Audio OUT).

front panel: 1 × USB 3.0 (Type-A)

To connect a USB flash drive.

Network

Bandwidth

incoming: up to 384 Mbps

outgoing: up to 384 Mbps

Protocol

HTTP, HTTPS, TCP/IP, IPv4, IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS

Interoperability

ONVIF

Key features

Supported devices

- Ajax cameras
- IP cameras via ONVIF (Profile S/T) or RTSP

Redundancy mode

Simultaneous recording of the same video streams to two storage devices to ensure data redundancy and reliability.

Split mode

Sequentially distributes video streams across multiple storage devices to balance the load and optimize storage.

Built-in video management system

- Integrated video wall interface with live camera feeds.
- Smart event filters for quick access to relevant video recordings.
- Interactive timeline with preview navigation for efficient playback and incident review.

Visual verification of Ajax system alarms

Ajax NVR supports a scenario in which events triggered by Ajax detectors automatically highlight the corresponding camera feed on the video wall. This allows an operator to immediately verify the intrusion.

Privacy

Advanced privacy controls ensure a high level of personal data protection. All access rights — including those for mobile app users, installers, and monitoring company operators via Ajax PRO Desktop — are fully configurable by the device owner. This guarantees that only authorized persons can access video streams, event history, or device settings in accordance with the owner's preferences.

Accelerometer

alarm when Ajax NVR is moved

Recommendations

The device's operating voltage is 100–240 V~.

The device is designed for indoor installation only.

Power supply

Main

100–240 V, 50/60 Hz, 1.5 A

Power consumption

up to 60 W

Clock battery

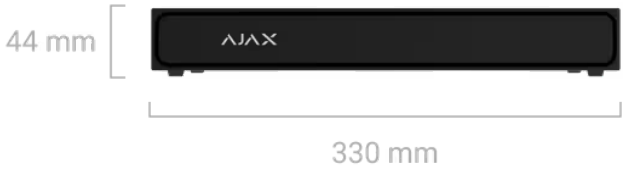
CR2032 battery, 3 V

Only to power the system clock.

Enclosure

Dimensions

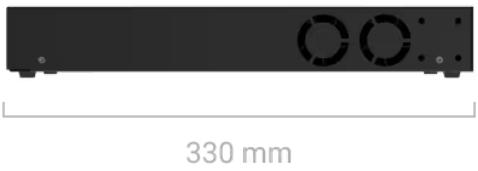
330 × 330 × 44 mm



Weight

XX g

Without drives.



Operating temperature range

from 0 °C to +50 °C

Operating humidity

up to 75%

Protection class

IP20

Color

Black



White



Complete set

Ajax Superior NVR H2DAI2GAC (8-ch)

2 × rack-mount brackets

Power cable

Ethernet cable

Installation kit

Quick start guide

Additional information

Compliance with standards

Learn more

User manual

Learn more

Warranty

24 months

Learn more

Subscribe

Subscribe to our emails about secure life. No spam.

Subscribe

Request extra help

support@ajax.systems

@AjaxSystemsSupport_Bot

Send a request

Trustpilot

Rating 4.8

4,500,000

people worldwide under Ajax protection

Suggest a feature

Products

- Intrusion protection
- Video surveillance
- Fire and life safety
- Comfort and automation
- All products
- Services
- System integrations
- Ajax Ready products
- Fibra wired protocol
- Ajax radio protocols

Software

- Ajax Security System
- Ajax PRO: Tool for Engineers
- Ajax Desktop
- Ajax PRO Desktop
- Ajax TV
- Ajax Translator PRO
- Ajax Cloud Signaling
- Scenarios

Available on App Store

Available on Google Play

Solutions

- Customer stories
- Solutions by facility type
- Commercial fire detection and alarm system
- Wireless Grade 3 solution
- Video surveillance solution
- Integration with Yale smart locks
- Upgrades and retrofits
- Why Ajax
- How it works

Support

- Manuals and articles
- Compliance with standards

Tools

- Ajax device compatibility
- CMS software compatibility
- Ajax Services availability
- Video storage calculator
- Video device calculator
- Battery life calculator
- Radio communication range calculator
- Switches and outlets configurator
- Fibra power supply calculator
- All web tools

Monitoring solutions and integrations

- Intrusion alarm monitoring
- Video monitoring and visual alarm verification
- Audio alarm verification

Company

- Blog
- About us
- Press page
- Events
- Career
- Ajax Next
- Reviews and feedback

For partners

- For partners
- Ajax Academy
- Partner Portal

© 2026 AJAX SYSTEMS CH. All rights reserved