Tech specs

SUPERIOR

Superior NVR H2DAI8PAC (8-ch)

8-channel AI-powered network video recorder with 4K HDMI output, Gigabit Ethernet interface, eight PoE ports, 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

Live view window division

1, 4, 9, 16, 25, 36, 5+1, 7+1, 12+1 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

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

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

Network

1 × RJ-45 self-adaptive Ethernet (10/100/1000 Mbps) + 802.3af/at PoE RJ-45 fast Ethernet (10/100 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.

PoE standard

PoE port

8 × IEEE 802.3af/at (Alternative A, power over data pairs)

Maximum power per port

up to 25 W

Total power budget

up to 200 W

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, 5 A

Power consumption

up to 280 W

Clock battery

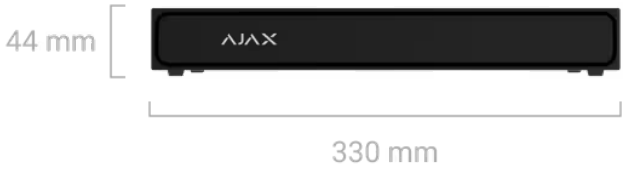
CR2032 battery, 3 V

Only to power the system clock.

Enclosure

Dimensions

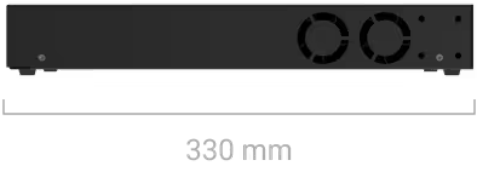
330 × 330 × 44 mm



Weight

3.3 kg

Without hard 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 H2DAI8PAC (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

Software

Ajax Security System

Ajax PRO: Tool for Engineers

Ajax Desktop

Ajax PRO Desktop

Ajax TV

Ajax Translator PRO

Ajax Cloud Signaling

Ajax Ready products

Fibra wired protocol

Ajax radio protocols

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

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