

Tech specs

AJAX SUPERIOR

Ajax Superior NVR H2DAI8PAC (8-ch)

8-channel AI-powered network video recorder with 4K HDMI output, Gigabit Ethernet port, 8 PoE ports, and support for 2 hot-swappable HDDs



Video

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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)
- 8 × channel at 2880 × 1620 px (25 fps)

Capability for third-party cameras with AI enabled

- 1 × channel at 4096 × 4096 px (25 fps)

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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

AI analytics on third-party cameras

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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

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)

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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

ONVIF®

conformant with ONVIF® Profile S

The device implements ONVIF® H.265 (HEVC) encoding, transmission of motion detection and AI recognition events, control over Wide Dynamic Range (WDR), and other image settings — not ONVIF® profile or add-on conformant.

Key features

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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.

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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.

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Dimensions

12.99" × 12.99" × 1.73"

Weight

7.3 lb

Without drives.

Operating temperature range

from 32 °F to 122 °F

Operating humidity

up to 75%

Protection class

IP20

Color

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Black

White

Complete set

Ajax Superior NVR H2DAI8PAC (8-ch)

2 × rack-mount brackets

Power cable

Ethernet cable

Installation kit

Quick start guide

Certification and compliance with standards

Ajax Superior NVR H2DAI8PAC (8-ch)



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Compliance with standards

Learn more 

User manual

Learn more 

Warranty

24 months

Learn more 

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Software

Ajax Security System

Ajax PRO: Tool for Engineers

Ajax Desktop

Ajax PRO Desktop

Ajax Response

Ajax TV

Ajax Translator PRO

Ajax Cloud Signaling

Ajax Media Player

Scenarios



Available on
App Store



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Solutions

Customer stories

Solutions by facility type

Commercial fire detection and alarm system

Wireless Grade 3 solution

Wired Grade 3 solution

Video surveillance solution

Integration with Yale smart locks

Water damage prevention

Upgrades and retrofits

How it works

Support

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Compliance with standards

Tools

Ajax device compatibility

CMS software compatibility

Ajax Services availability

Video storage calculator

Video device calculator

Battery life calculator

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

Company

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