NVR H2DAI8PAC

8-channel AI network video recorder



TECHNICAL SPECIFICATIONS

Complete product datasheet • 8-channel AI-powered network video recorder

8 PoE ports | 4K HDMI | Gigabit Ethernet | 2 hot-swappable drives

Prepared from the official Ajax Systems product specification page.
All product sections, technical notes, dimensional drawing, color variants, package contents and compliance information are included.

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 when Object detection is disabled	• 2 × channel at 4096 × 4096 px (25 fps) • 4 × channel at 3840 × 2160 px (25 fps) • 8 × channel at 2880 × 1620 px (25 fps) These values apply when Object detection is disabled for all third-party video devices connected to the Ajax NVR.
Capability when Object detection is enabled	• 1 × channel at 4096 × 4096 px (25 fps) • 2 × channel at 3840 × 2160 px (25 fps) • 4 × channel at 2880 × 1620 px (25 fps) • 5 × channel at 2560 × 1440 px (25 fps) These values apply when Object detection is enabled for at least one third-party video device connected to the Ajax NVR. The actual number of displayed channels may vary depending on NVR resource usage.
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
AI analytics on third-party cameras	up to 8 channels

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	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, RTSP, UDP, DHCP, DNS, DDNS
ONVIF®	conformant with ONVIF® Profile G and 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

Supported devices	• Ajax cameras • IP cameras that conform to ONVIF® Profiles • 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

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 drives
Operating temperature	0 °C to +50 °C
Operating humidity	Up to 75%
Protection class	IP20



Color

Available colors	Black; White



BLACK



WHITE

Complete set

Complete set	Ajax Superior NVR H2DAI8PAC (8-ch) 2 × rack-mount brackets Power cable Ethernet cable Installation kit Quick start guide

Certification and warranty

EU declaration	EU Declaration of Conformity (PDF)
RoHS	Test report issued by Shenzhen NTEK Testing Technology Co. EN IEC 63000:2018
EMC	Certificate issued by MiCOM Labs. EN 55032:2015+A11:2020 EN 61000-3-3:2013+A2:2021 IEC 61000-3-3:2013+A1:2017+A2:2021 EN IEC 61000-3-2:2019+A2:2024 IEC 61000-3-2:2018+A1:2020+A2:2024 EN 55035:2017+A11:2020
LVD	Certificate issued by Shenzhen NTEK Testing Technology Co. EN IEC 62368-1:2024+A11:2024
PSTI UK	Schedule 1
Warranty	24 months - Warranty details

Additional information

User manual	Open the official user manual
Compliance with standards	View compliance information

Source: Ajax Systems - official technical specifications
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