

Ajax Superior NVR H2D series

AI-powered network video recorders with 4K HDMI output, up to 2 Gigabit Ethernet interfaces, up to 16 PoE ports, and support for 2 hot-swappable HDDs

- Onboard AI
- HDMI
- ONVIF
- NDAA Compliant



AI Bringing AI to any video setup

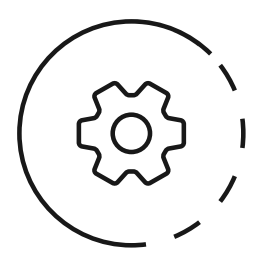
Ajax network video recorders integrate Ajax video devices and third-party IP cameras into a single ecosystem. Ajax Superior NVR H2D series features onboard AI, providing intelligent analytics to existing setups without costly camera replacements. The recorders can house two hot-swappable HDDs up to 24 TB each – optimal for continuous archiving and reliable backup. With 4K decoding, the NVRs deliver seamless playback of multiple camera feeds at once and with a wide selection of Ajax Superior NVR configurations, it's easy to build an efficient and flexible monitoring system for any facility – and manage it remotely via Ajax apps or on-site through the built-in VMS.

Explore Superior NVR H2D series

Product versions	AI	HDD support	Channels	PoE	HDMI	Ethernet	USB
Superior NVR H2DAI2GAC (8-ch)	✓	2	8	✗	4K	2 × up to 1 Gbps	1 × 3.0 2 × 2.0
Superior NVR H2DAI2GAC (16-ch)	✓	2	16	✗	4K	2 × up to 1 Gbps	1 × 3.0 2 × 2.0
Superior NVR H2DAI2GAC (32-ch)	✓	2	32	✗	4K	2 × up to 1 Gbps	1 × 3.0 2 × 2.0
Superior NVR H2DAI8PAC (8-ch)	✓	2	8	8	4K	up to 1 Gbps	1 × 3.0 2 × 2.0
Superior NVR H2DAI8PAC (16-ch)	✓	2	16	8	4K	up to 1 Gbps	1 × 3.0 2 × 2.0
Superior NVR H2DAI16PAC (16-ch)	✓	2	16	16	4K	up to 1 Gbps	1 × 3.0 2 × 2.0
Superior NVR H2DAI16PAC (32-ch)	✓	2	32	16	4K	up to 1 Gbps	1 × 3.0 2 × 2.0

Designed to fit every project

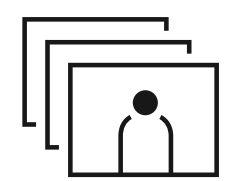
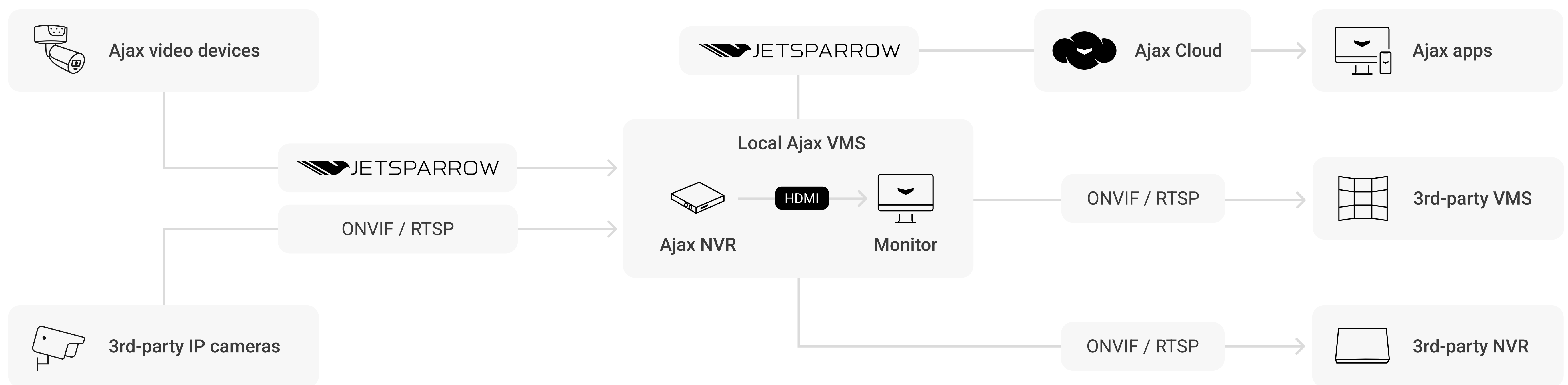
Ajax NVRs come in a variety of options to suit any application or network design. The new Ajax Superior NVR H2D series includes recorders that support up to 32 channels to cover systems of different scales. Models with PoE¹ ports can connect and power up to 16 cameras. Meanwhile, NVRs without PoE ports feature two Ethernet interfaces – ideal for connecting to industrial-grade switches on sites with strict network requirements.



Intelligent upgrade for existing setups

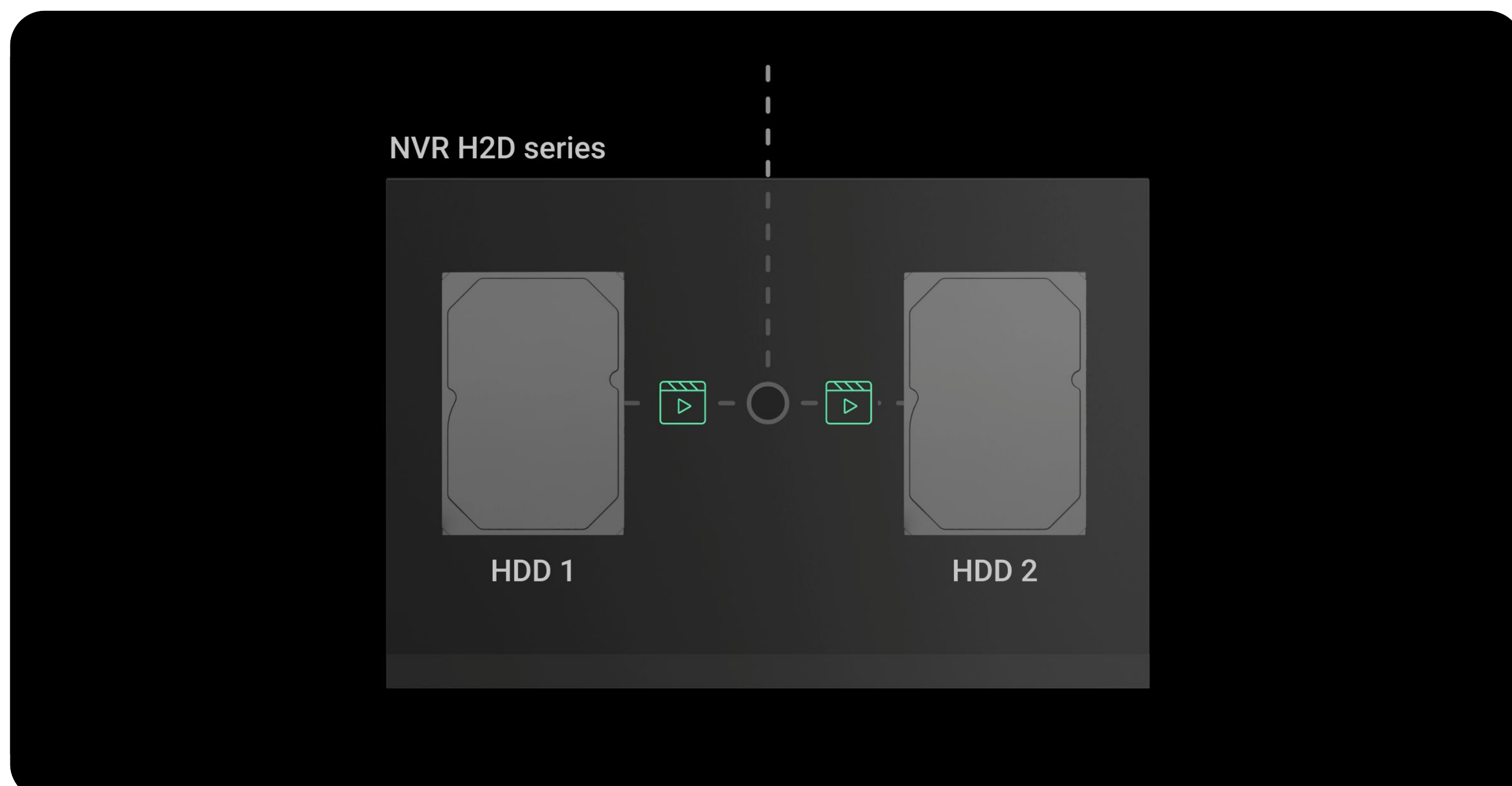
Ajax Superior NVRs feature proprietary onboard AI, bringing smart Ajax video surveillance to even outdated setups. The recorders enable basic cameras to recognize people, pets, and vehicles — with the same accuracy as native Ajax cameras. Third-party cameras enhanced via Ajax Superior NVRs can also send detection notifications, trigger sirens, or run automation scenarios. All of this comes with a single Ajax Superior NVR, without the need for costly camera replacements.

Flexible video surveillance for any scale and scenario



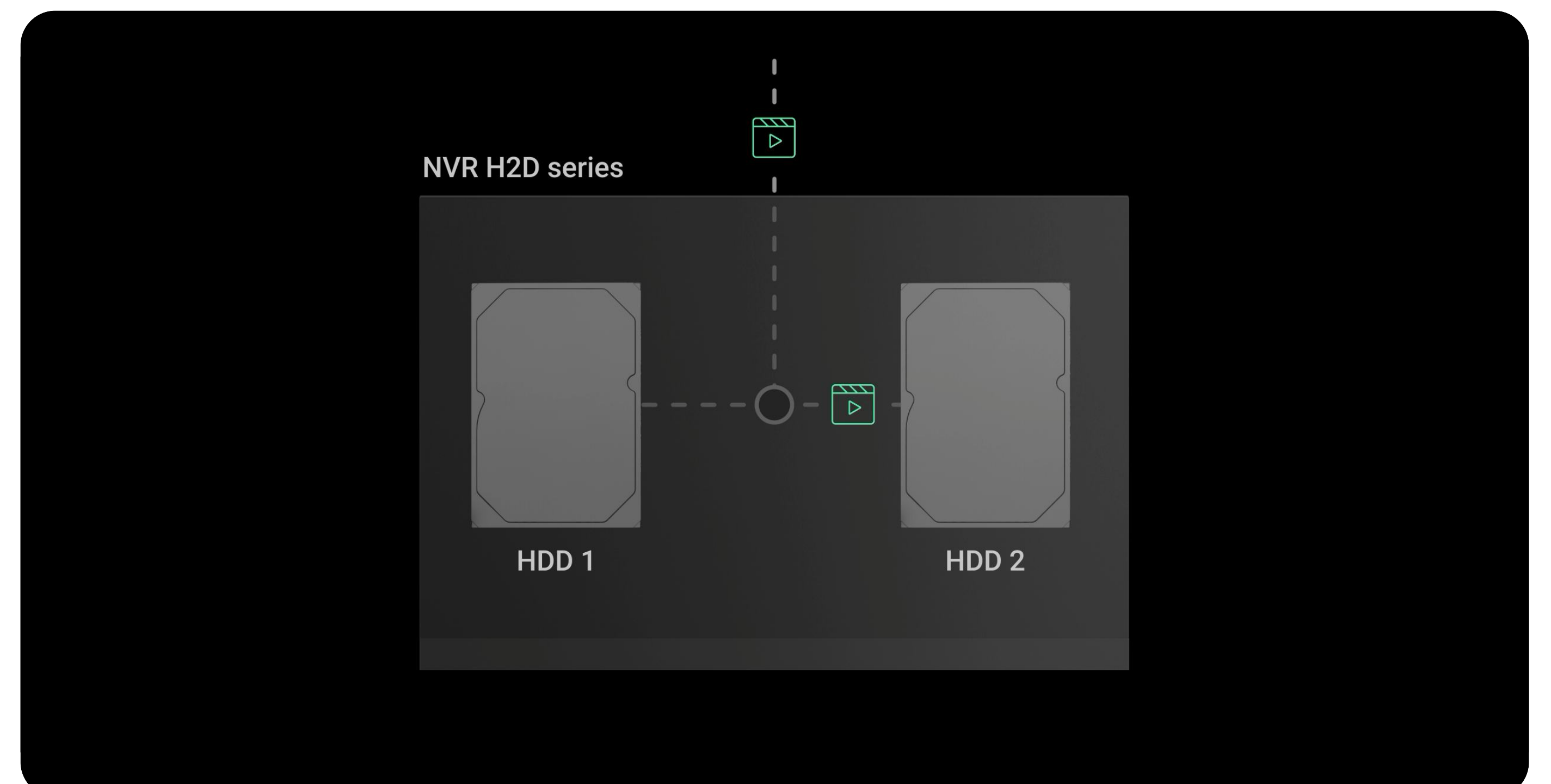
Full story preserved with two-drive recording

NVR H2D series offers two recording modes designed to enhance system resilience. Both minimize the risk of data loss if one drive fails, always preserving sufficient context of recorded events.



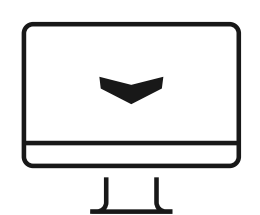
Redundancy mode

Footage is duplicated across both hard drives to ensure a full backup.



Split mode

Footage is recorded alternately in equal segments across both hard drives, optimizing storage capacity and balancing HDD load.



Local video management experience

- On-site video surveillance without an internet connection
- Local video management and archive access
- Customizable virtual video wall and slideshow mode
- 4K HDMI port for connecting a display
- One USB 3.0 port and USB 2.0 ports for a keyboard, mouse, or flash drive



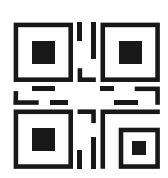
Remote video management via Ajax apps

- Proprietary JetSparrow technology for instant, encrypted video streaming and smooth archive navigation
- Archive synchronization with security system events
- High-resolution visual verification of alarms via video scenarios
- Instant transition from notifications to on-site video recordings
- Fast archive navigation using event timeline, calendar view, and search filters



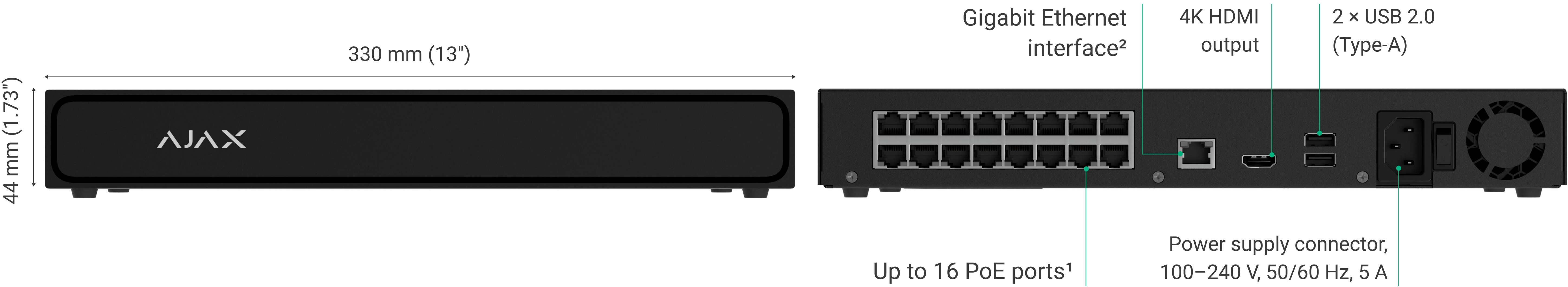
Robust security without privacy compromises

- TLS-encrypted video streams
- User-controlled access to video content
- Passwordless camera authentication
- Secure video export with digital signature verification
- Multi-tiered account protection: passcodes, biometrics, and two-factor authentication
- Session control for additional account safety
- Exclusive owner access to content stored on hard drives
- NDAA compliance



Easy installation and maintenance

- PoE ports for effortless camera connection
- Option for rack mounting with the ready-to-use kit
- Adding to an Ajax system via QR code
- Remote control and configuration via Ajax apps
- Configurable motion detection zones for connected cameras
- Support for ONVIF/RTSP authorization
- Automatic search for available cameras on the local network
- Support for two hot-swappable HDDs
- Real-time NVR health monitoring, including HDD state



HDMI cable and HDDs are not included in the complete set.

Ports	Video stream	Key features
PoE+ up to 16 ports Ethernet up to 2 × RJ45 4K HDMI USB 1 × USB 3.0 (Type-A) 2 × USB 2.0 (Type-A) To export data and connect an interface device (e.g., mouse, keyboard, etc.) or a flash drive.	IP cameras ONVIF³ RTSP Decoding formats H.265/H.264 Storage two hard drives with up to 24 TB capacity (SATA connectivity, 3.5" size) HDDs are not included in the complete set Bandwidth incoming: up to 600 Mbps outgoing: up to 600 Mbps	Built-in AI AI-powered detection of people, pets, and vehicles for connected cameras JetSparrow Proprietary Ajax protocol for fast and secure video transmission Motion detection Built-in software to detect movement in the frame Built-in video management system Visual verification of system alarms
Power supply Ajax Superior NVR H2DAI2GAC (8-ch) Ajax Superior NVR H2DAI2GAC (16-ch) Ajax Superior NVR H2DAI2GAC (32-ch) Ajax Superior NVR H2DAI8PAC (8-ch) Ajax Superior NVR H2DAI8PAC (16-ch) Ajax Superior NVR H2DAI16PAC (16-ch) Ajax Superior NVR H2DAI16PAC (32-ch)	Main 100–240 V, 50/60 Hz, 0.6 A Main 100–240 V, 50/60 Hz, 5 A	Power consumption up to 85 W Power consumption up to 320 W

Installation Operating humidity up to 75% Protection class IP20 Operating temperature range from 0 °C to +50 °C from 32 °F to 122 °F	Enclosure Colors black, white Dimensions 330 × 330 × 44 mm 13" × 13" × 1.73" Weight 3,300 g 116.4 oz Without hard drives	Complete set Ajax Superior NVR 2 × rack-mount bracket Power cable Ethernet cable Installation kit Quick start guide
--	--	--

¹ PoE ports are available for Ajax Superior NVR H2DAI8PAC (8-ch), Ajax Superior NVR H2DAI8PAC (16-ch), Ajax Superior NVR H2DAI16PAC (16-ch), and Ajax Superior NVR H2DAI16PAC (32-ch).

² Ajax Superior NVR H2DAI8PAC (8-ch), Ajax Superior NVR H2DAI8PAC (16-ch), Ajax Superior NVR H2DAI16PAC (16-ch), and Ajax Superior NVR H2DAI16PAC (32-ch) feature one Gigabit Ethernet interface. Two interfaces are available for Ajax Superior NVR H2DAI2GAC (8-ch), Ajax Superior NVR H2DAI2GAC (16-ch), and Ajax Superior NVR H2DAI2GAC (32-ch).

³ Ajax Superior NVR H2D series devices support ONVIF Profile S, as well as some features of Profiles T and M.



For detailed information, scan the QR code or follow the link:
ajax.systems/products/superior-nvr-h2d/manuals/

-  support@ajax.systems
-  @AjaxSystemsSupport_Bot
-  ajax.systems