Baseline

NVR H2D series

Network video recorders with 4K HDMI output, up to 16 PoE ports, and support for 2 hot-swappable HDDs

NDAA Compliant

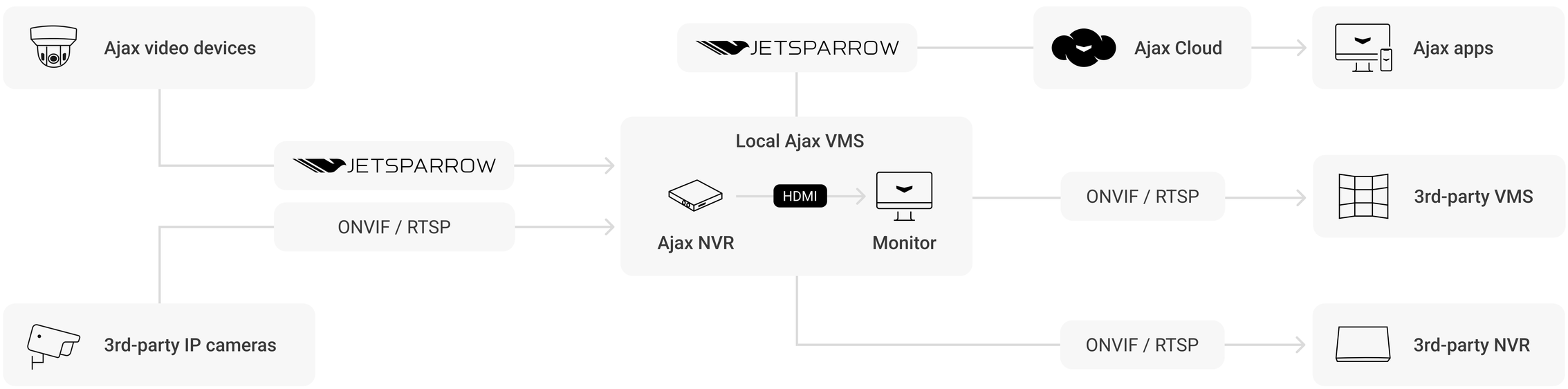
Double the storage. Double the confidence.

Ajax network video recorders integrate Ajax video devices and third-party IP cameras into a single ecosystem. NVR H2D series recorders support two hot-swappable HDDs — ideal for facilities that require a deeper archive and reliable data backup. Equipped with PoE[1] ports, the NVRs can directly connect and power up to 16 IP cameras. The system adapts to specific monitoring needs: video can be managed remotely via Ajax apps or on-site with the built-in VMS.

Explore NVR H2D series

Product versions	HDD support	Channels	PoE	HDMI	Ethernet	USB
NVR H2DAC (8-ch)	2	8	✕	4K	up to 1 Gbps	3 × 2.0
NVR H2DAC (16-ch)	2	16	✕	4K	up to 1 Gbps	3 × 2.0
NVR H2D8PAC (8-ch)	2	8	8	4K	up to 1 Gbps	3 × 2.0
NVR H2D8PAC (16-ch)	2	16	8	4K	up to 1 Gbps	3 × 2.0
NVR H2D16PAC (16-ch)	2	16	16	4K	up to 1 Gbps	3 × 2.0

Flexible video surveillance for any scale and scenario

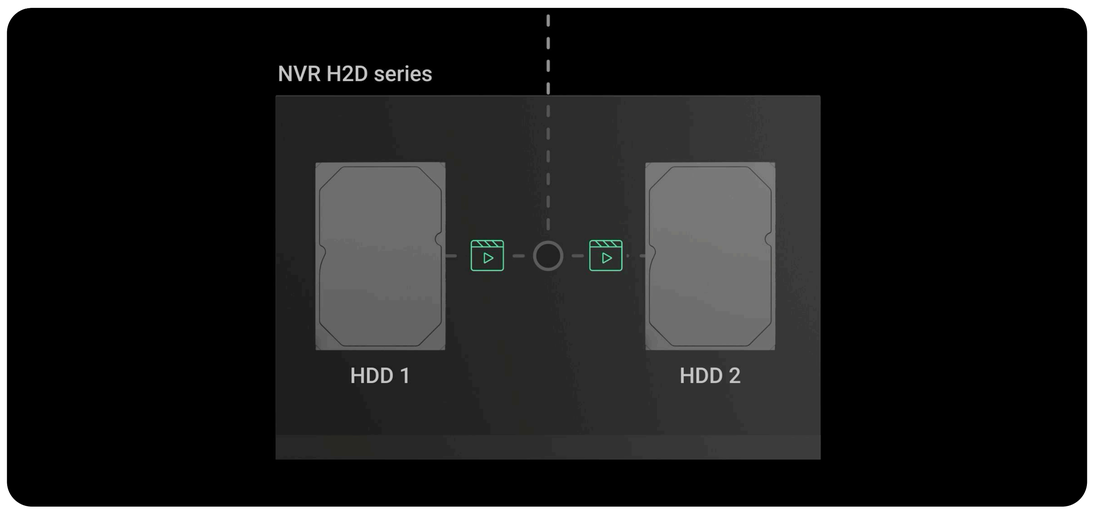


Always-on recording without service breaks

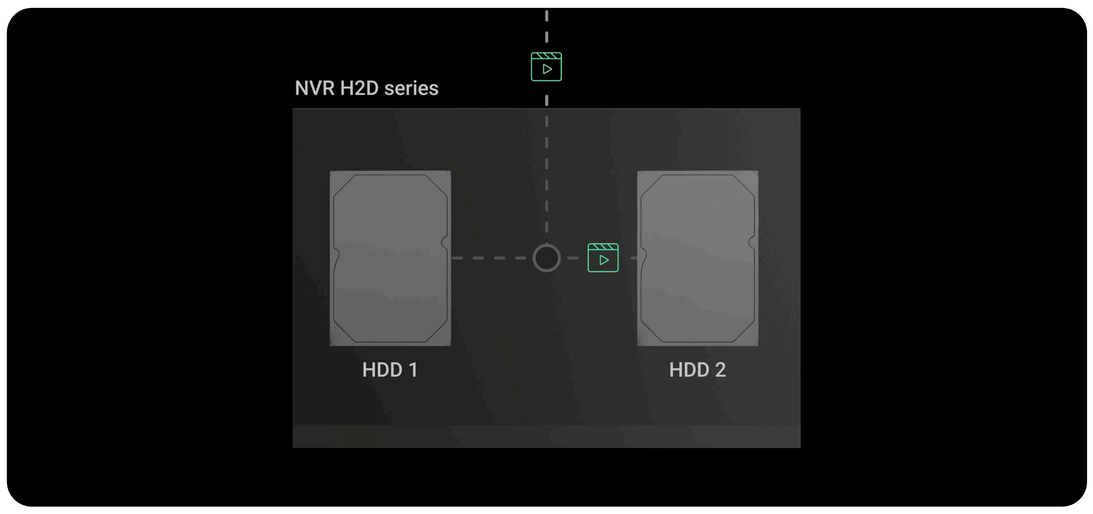
All devices in the NVR H2D series deliver continuous recording, even during maintenance. They support **hot swapping**, so installed HDDs can be replaced at any time without shutting down the recorder.

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[2]
- Local video management and archive access
- Customizable virtual video wall and slideshow mode
- 4K HDMI port for connecting a display
- Three USB 2.0 ports for a keyboard, mouse, or flash drive

Remote video management via Ajax apps

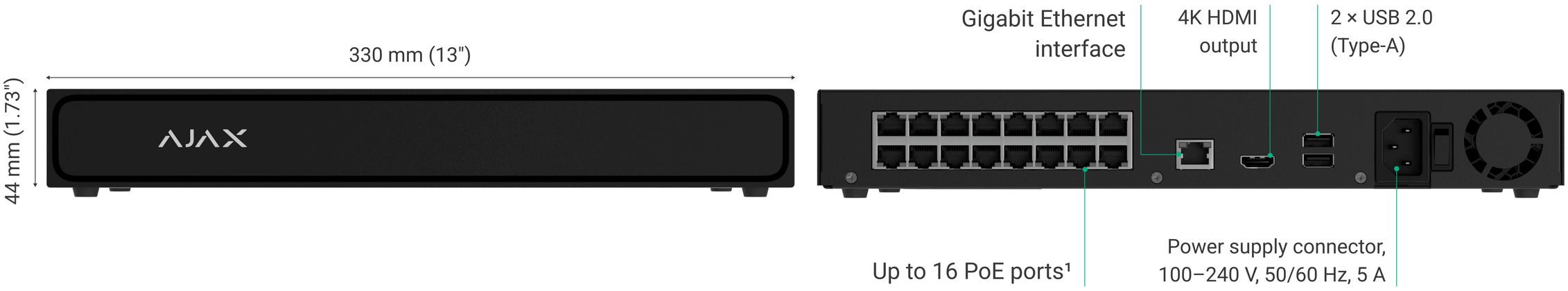
- Proprietary JetSparrow technology for instant, encrypted video streaming and smooth archive navigation
- Archive synchronization with security system events
- High-resolution visual verification of alarms via video scenarios
- Instant transition from notifications to on-site video recordings
- Fast 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
- Conformance with ONVIF® Profile S
- RTSP support
- 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

PoE+
up to 16 ports

4K HDMI

Ethernet
RJ45

USB
3 × USB 2.0 (Type-A)
To connect an interface device (e.g., mouse, keyboard, etc.) or a flash drive

Video stream

IP cameras
RTSP
Conformant with ONVIF® Profile S
NVR H2D series devices implement ONVIF® H.265 (HEVC) encoding, transmission of motion detection events, control over Wide Dynamic Range (WDR), and other image settings – not ONVIF® profile or add-on conformant.

Storage
two hard drives with up to 16 TB capacity (SATA connectivity, 3.5” size)
HDDs are not included in the complete set

Decoding formats
H.265/H.264

Bandwidth
incoming: up to 160 Mbps
outgoing: up to 160 Mbps

Key features

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

NVR H2DAC (8-ch)
NVR H2DAC (16-ch)

Main
100–240 V, 50/60 Hz, 0.6 A

Power consumption
up to 85 W

NVR H2D8PAC (8-ch)
NVR H2D8PAC (16-ch)
NVR H2D16PAC (16-ch)

Main
100–240 V, 50/60 Hz, 5 A

Power consumption
up to 320 W

Installation

Operating temperature
0 °C to +50 °C
32 °F to 122 °F

Operating humidity
up to 75%

Protection class
IP20

Enclosure

Dimensions
330 × 330 × 44 mm
13" × 13" × 1.73"

Weight
3,300 g
116.4 oz
Without hard drives

Colors
black, white

Complete set

NVR
2 × rack-mount bracket
Power cable
Ethernet cable
Installation kit
Quick start guide

¹ PoE ports are available for NVR H2D8PAC (8-ch), NVR H2D8PAC (16-ch), and NVR H2D16PAC (16-ch).
² To ensure continued offline operation, cameras added via an Ajax NVR must connect to the Ajax Cloud server at least once every 30 days.

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

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