



Hardware requirements guide

What hardware do you need to run NoldusViso?

A clear overview of the workstation and laptop set-ups for NoldusViso



One system, less hardware

NoldusViso runs your entire behavioral observation lab from a single system, either a dedicated workstation (acting as a server) or a laptop. Cameras stream directly into it, viewers watch live or recorded sessions from any browser, and every recording is stored in one place.

You only need the central system. No separate recording PCs and no separate viewer PCs, which means less hardware to buy, install and maintain.

The daily system access goes via the network, through a browser interface login, for all roles.

Two ways to run NoldusViso

Central server workstation for fixed lab installations	Laptop for portable / mobile labs
Stays in one location; cameras, microphones and network connect into it.	Goes wherever your research or training takes you.
Scales from a small lab set-up to a large, multi-room facility.	Recommended for portable set-ups of 4–8 cameras
Integrates into your network environment.	Not intended to replace a workstation for larger, permanent installations

How to read the tables on the following pages

The specifications below are the tested minimums for each tier. The number of cameras and the number of people watching at the same time (viewers) together determine the load on the system. Each camera-to-viewer combination is one “stream”.

Choose the tier that matches your camera count today, and check the notes if you're planning to grow.



Workstation set-ups

One workstation acts as the server for your whole lab. Choose the tier that matches your number of cameras.

Tier	Cameras	Viewers	Processor (min.)	RAM	Storage (NVMe)	Network card	Graphics card
Small lab no expansion planned	4 – 8	1 – 6	Intel i7, 13th gen	16 GB	1 TB	10 Gb	Onboard or expansion option*
Medium lab environment 1–3 rooms	up to 12	1 – 10	Intel i7, 13th gen	32 GB	1 TB	10 Gb	Onboard or expansion option*
Larger multi-room set-up	12+	10+	Intel i7, 13th gen	64 GB	2 TB+	10 Gb	Onboard or expansion option*

Why these specs matter

- **Memory (RAM)** scales with the number of camera streams. Both more cameras and more simultaneous viewers add load. Four cameras watched by 10 viewers is 40 streams, 12 cameras watched by 10 viewers is 120 streams. More RAM keeps everything running smoothly as that number grows.
- **Storage (NVMe)** needs to be fast to record and save video without delay. As a rule of thumb, one hour of full-HD video from one camera is about 1 GB — size your disk for your longest recording days, and keep usage under roughly 80% of capacity. The storage capacity can be scaled to your needs.
- **Network card (10 GbE)** gives you the bandwidth headroom you'll need as your lab grows, so you're prepared for the future without having to replace the network card later.

All tiers above have been tested by Noldus at these minimum specifications.

* Graphics card expansion	Nvidia RTX Pro 2000 Blackwell	Optional: when you expect to be using the future AI analysis pipeline in NoldusViso
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- **Professional graphics card (GPU) — optional*** is not required to run NoldusViso today — it runs mainly on the CPU. A professional GPU becomes important once AI-based analysis features arrive in later versions. We recommend a computer case with room for a professional-grade card: RTX Pro 2000 Blackwell, so one can be added later without replacing the workstation.
- **Standard consumer graphics cards** are not suitable for AI functionality and do not support more than 8 camera streams.



Laptop set-ups

A laptop lets you take NoldusViso with you. It is recommended for portable set-ups of 4 to 8 cameras.

Tier	Cameras	Viewers	Processor (min.)	RAM	Storage (NVMe)	Ethernet	Graphics card
Portable lab	4	1 – 10	Intel i7, 13th gen	16 GB	1 TB	Gigabit (on laptop)	Onboard or expansion option*: RTX 2000 — built-in
Portable lab	8	1 – 10	Intel i7, 13th gen	32 GB	2 TB	Gigabit (on laptop)	Onboard or expansion option*: RTX 2000 — built-in

Good to know

- We recommend a laptop only for mobile labs of 4 to 8 cameras. For anything larger, use a workstation — a laptop should not serve as the “server” for a bigger, permanent installation.
- **Unlike a workstation, a laptop’s graphics card cannot be added or upgraded afterwards.** If you may want AI-based analysis in the future, choose a laptop with the right GPU already built in. If not, a standard graphics card is enough.



Network, cameras & microphones

Network switch

Must support 10 Gb/s and Power over Ethernet (PoE), so cameras receive power directly through the network cable — no separate power adapters needed.

Cameras

In general, IP cameras that support the ONVIF protocol are supported. Connect with your Noldus sales consultant to discuss specific camera types/brands. In portable and stationary labs, we typically include cameras from AXIS like the 5526-E and the M1075 as these offer a high performance and reliability.

Microphones

Connected via the IP camera, through a Dante audio network, or via line-in microphones. Your Noldus contact can confirm the exact recommended models for your set-up.

Who can use NoldusViso, and from what?

Anyone on the team — technician, administrator, trainer, trainee or viewer — logs in to NoldusViso through the Chrome browser on their own PC or laptop. No special software or installation is needed on their device. We can live demo this to you.

Every lab is different. If your plans don't match one of the tiers in this guide — more cameras, more viewers, longer recordings, or multiple locations — [talk to your Noldus contact](#) so we can size the right system together.

Your personalized NoldusViso walkthrough



- ✓ See how you can record, annotate, and review in **one system**
- ✓ Explore how this fits your **current setup**
- ✓ **Get answers** to your questions from a Noldus specialist

[Book your free demo](#)



Questions about your set-up?

We're happy to help you translate your lab, training or research plans into the right NoldusViso hardware, today and as you grow.

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