



LAB [®] THUNDER

Preserve Knowledge.
Unlock Efficiency.

AI powered
Laboratory
Management
Software



LabThunder transforms how laboratories manage equipment, knowledge, and compliance. From reducing service costs to preserving critical know-how, it helps labs become more efficient, independent, and future-proof.

Discover LabThunder today:
The digital control center for your lab.

- Book a free demo session
- Explore how LabThunder fits your workflows.
- Start building the foundation for smarter, more cost-efficient lab operations

Get in Touch

Guiding you toward sustainable success

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Check out
our Website



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LabThunder – AI powered Laboratory Asset Management Solution

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The Problem:

The 4 Wastes

Everyday lab operations are filled with hidden inefficiencies that quietly drain resources. We call them the **4 Wastes of Lab Management**:



01

Waste of Time

Endless hours are lost searching for documents, repeating manual entries, or chasing equipment availability. Instead of focusing on science, staff are tied up with administration.

02

Waste of Knowledge

Critical expertise is often stored in the minds of a few senior colleagues. When they leave or are unavailable, valuable know-how disappears – and the lab becomes vulnerable.

03

Waste of Material

Poor documentation and unclear responsibilities lead to repeated tests, failed runs, and unnecessary consumption of costly samples and reagents.

04

Waste of Money

Unplanned downtime, inefficient maintenance, and duplicated work add up to significant financial losses – costs that could be avoided with smarter management.

The LabThunder Solution – From Waste to Value

LabThunder was built to transform inefficiency into measurable value. Where traditional lab management creates the **4 Wastes**, LabThunder delivers the **4 Values (4M)**:

01 More Time

Centralized document management and digital logbooks make critical information instantly accessible. Instead of wasting hours searching through binders or folders, staff can find what they need in seconds. Scheduling and reservations run seamlessly in the background – saving even more time. Automatisierte Meldungen und Reports verhindern, dass Aufgaben oder Fristen verpasst werden.

02 More Knowledge

LabThunder's integrated **Thunder Wiki** ensures that manuals, log entries, and troubleshooting knowledge are not just stored but structured and preserved for the future. Expertise is no longer lost when individuals leave – it becomes available to the entire lab team and the next generation of scientists. Combined with Thunder AI, knowledge is continuously accessible and actionable.

03 More Material

With better documentation and guided troubleshooting, errors and repeat runs are minimized. Precious samples and reagents are used efficiently, reducing unnecessary waste and protecting valuable resources.

04 More Money

The combined benefits of time savings, knowledge retention, and reduced material waste lead directly to measurable financial gains. On top of that, LabThunder actively saves money by reducing service calls, extending equipment lifetime, and enabling truly data-driven decisions. The result: labs operate more cost-efficiently, protecting their budgets for what really matters – science.



In short:

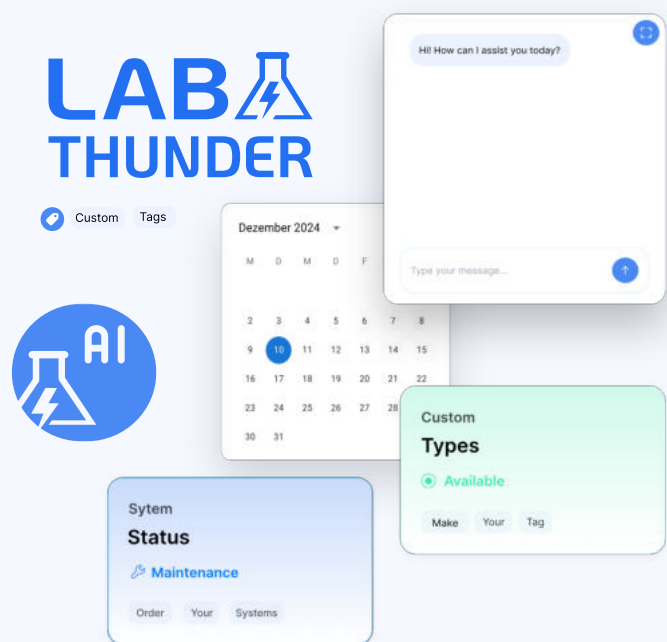
LabThunder transforms hidden losses into lasting gains – building a stronger, smarter, and more independent laboratory.

What is LabThunder?

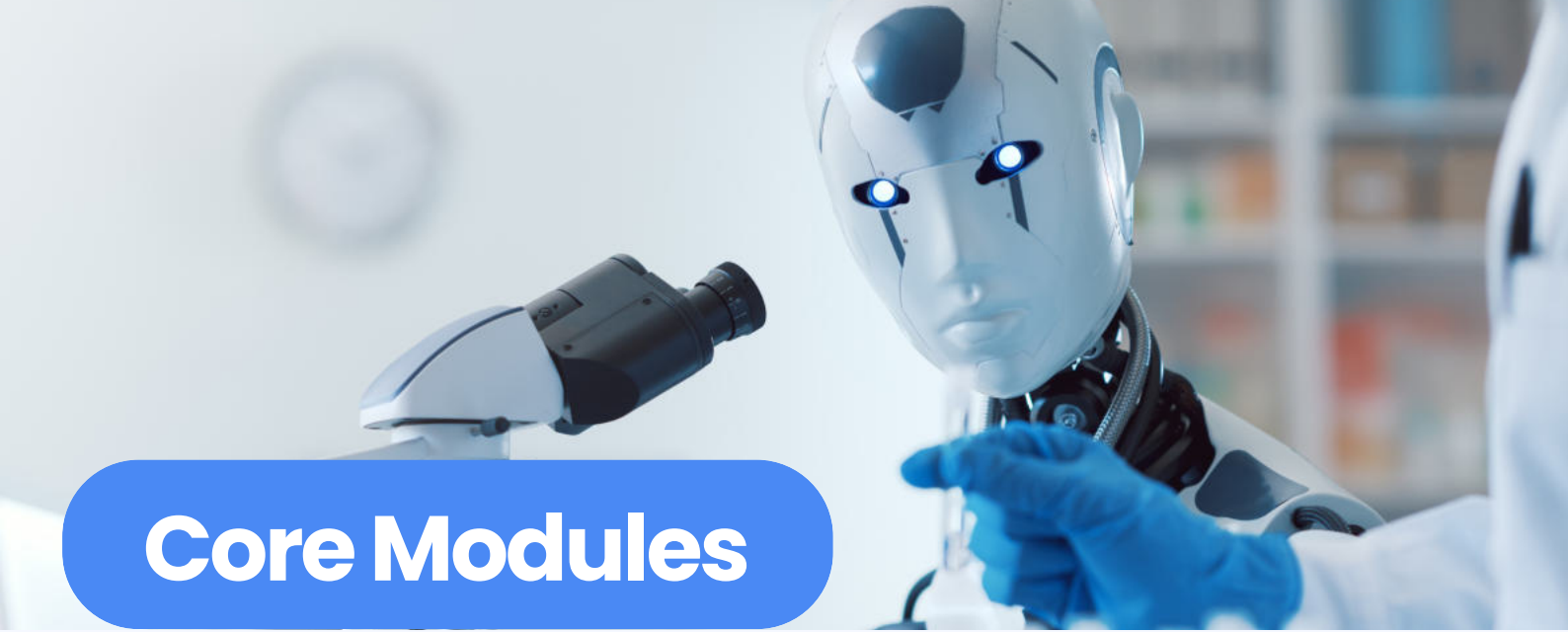
LabThunder is the **digital control center for your laboratory.**

It combines equipment management, logbooks, document storage, and AI support into a single, intuitive platform. Instead of juggling spreadsheets, paper records, and scattered files, everything your lab needs is organized, connected, and instantly accessible.

At its core, LabThunder is more than just software – it is a **knowledge and efficiency hub.** With Thunder Wiki and Thunder AI, know-how is captured, structured, and preserved for the future. With digital logbooks, smart scheduling, and centralized document management, labs gain clarity, reliability, and independence.



The result: a lab that runs smoothly, avoids costly downtime, and empowers its team to focus on science instead of administration.



Core Modules

01

Equipment Management

Track every instrument across its full lifecycle – from installation to service history. Unique QR codes provide instant access to logbooks, manuals, and maintenance data.

02

Digital Logbooks

Replace paper binders with searchable, structured log entries. Maintenance, errors, and system events are documented in real time and remain traceable at any moment.

03

Scheduling & Reservations

Plan system usage, maintenance slots, and team availability in one place. Conflicts are avoided automatically, ensuring maximum uptime and fairness.

04

Document Hub

Store, manage, and share manuals, reports, and certificates in a secure and GDPR-compliant way. With advanced search, the right file is always just a click away.

05

Thunder AI

Your virtual key-user: an AI assistant trained on your manuals, logbooks, and lab data. It answers questions, supports troubleshooting, and helps prevent costly errors.

06

Thunder Wiki

Thunder Wiki captures and connects your team's knowledge — from insights and notes to procedures and troubleshooting tips. It turns personal know-how into shared expertise, accessible anytime for everyone.

07

LabInsights

LabInsights is an analytical and benchmarking module by LabThunder that enables laboratories to assess, compare, and improve their performance through data-driven insights into their equipment fleet.



LAB 
THUNDER

Equipment Logbook

The LabThunder E-Logbook digitalizes the entire equipment logbook process and takes laboratory efficiency to the next level. Entries become searchable, structured, and easy to analyze – turning static records into usable knowledge.

With seamless links to reservations, service reports, and validation documents, the E-Logbook ensures full traceability while reducing errors and saving valuable time.



AI-Powered Search

All documents and log entries are indexed and can be instantly searched and understood by AI – far beyond simple keyword search.



Connect Equipment Bookings

Link every instrument reservation directly with logbook entries, documents, and maintenance data.



Log Comment

Add notes to log entries to provide more context – including input from different people.



Document Attachment

Attach service reports, protocols, or validation files directly to log entries for complete context.



Custom Inputs

Capture lab-specific data with flexible fields tailored to your processes.



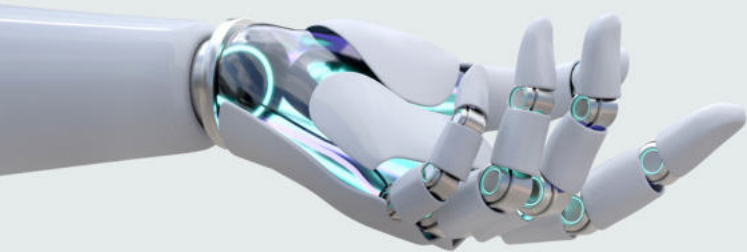
Tagging of Logs

Use tags to categorize entries, making logs easy to filter, group, and retrieve.



Filtering of Logs

Leveraging technology for efficiency: Quickly narrow down entries by tags, users, or timeframes to find exactly what you need.



THUNDER AI[®]

Your Virtual Lab Assistant

 www.labthunder.com

Thunder AI[®] – Your Virtual Key-User

Modern laboratories generate enormous amounts of information – from manuals and SOPs to logbooks, service reports, and training notes. The challenge: finding and applying this knowledge when it is urgently needed.

This is where **Thunder AI** comes in. Acting as a **virtual key-user**, Thunder AI gives every team member instant access to the lab's collective knowledge:

- It answers questions about manuals, procedures, and past logbook entries within seconds.
- It supports troubleshooting by suggesting solutions based on previous errors, service history, and technical documentation.
- It helps plan and prioritize maintenance tasks before problems become downtime.

What makes Thunder AI unique is its ability to **continuously adapt to your lab**. With every uploaded document, every logbook entry, and every manual, the AI becomes more tailored to your specific instruments, processes, and workflows.

Each day, it learns more and becomes more efficient, turning your own data into a growing knowledge base that no generic AI could replicate.

Unlike general AI assistants, Thunder AI is **trained exclusively on your lab's data** – delivering:

- **Context-specific answers**
relevant to your instruments and workflows
- **Knowledge preservation**
expertise remains accessible, even when staff leave
- **Fewer service calls**
many issues can be solved directly in-house, saving time and money



With Thunder AI, laboratories gain a **permanent knowledge partner** that grows smarter every day – making teams faster, more independent, and more cost-efficient.

Compliance & Security built for Regulated Environments

In industries like pharma, biotech, and clinical diagnostics, compliance and data security are non-negotiable. LabThunder is designed from the ground up to meet these requirements:



ISO 17025 / ISO 15189 / GMP / GLP Ready

All documentation, logbooks, and processes are structured to support international quality and compliance standards across research, testing, and clinical environments.



GDPR-Compliant Hosting in the EU

All data is stored securely in European data centers – ensuring compliance with the strictest privacy regulations.



Roles & Permissions

Fine-grained access controls ensure that only authorized staff members can view, edit, or approve data, maintaining security and accountability.



Audit-Ready Documentation

Every logbook entry, file upload, or system change is automatically time-stamped and traceable – reducing the burden of audits and inspections.

With LabThunder, laboratories not only gain efficiency – they also build the **compliance backbone** required for safe, transparent, and future-proof operations.



Application Areas:

Where LabThunder Creates Value

Pharma & Biotech

Streamline equipment management, ensure GxP compliance, and preserve critical equipment know-how across QC, R&D and production environments. Fewer failed batches and optimized maintenance planning reduce costs and protect productivity.

Quality Control (QC) & Research & Development (R&D)

Manage instruments and workflows with full traceability. Digital logbooks and Thunder AI accelerate troubleshooting, reduce human error, and secure audit-ready documentation for faster innovation.

Clinical Laboratories

Designed with **ISO 15189** in mind, LabThunder provides reliable equipment management, Audit-Ready Logs, and secure access control for diagnostic environments. By streamlining troubleshooting in-house and reducing external service calls, it helps clinical labs cut costs and keep critical instruments available for patient care.

Food & Environmental Testing

LabThunder ensures reproducibility, safeguards sample data, and keeps documentation inspection-ready for regulatory authorities. With full alignment to **ISO 17025** standards in equipment management and troubleshooting, it helps laboratories reduce errors, lower service costs, and increase ROI through smarter, more cost-efficient operations.

Academia

Universities and research institutes face high user turnover and complex instruments. LabThunder centralizes equipment scheduling and preserves know-how, even as teams change. With Thunder Wiki and Thunder AI, students and researchers can handle complex systems enabling in-house troubleshooting and preventive maintenance.

The Result:

Fewer service calls, longer equipment lifetime, and significantly lower total cost of ownership.



LabThunder transforms how laboratories manage equipment, knowledge, and compliance. From reducing service costs to preserving critical know-how, it helps labs become more efficient, independent, and future-proof.

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