eppendorf



VisioNize® Lab Suite Product Guide

You and Your Lab - Connected.

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Monitor Your Laboratory Equipment in Real Time and Receive Notifications Straight to Your Phone when Issues Occur

VisioNize® Lab Suite ensures you access to critical parameters of your connected lab devices to ensure the safety of your samples and the reliability of your research. The user-friendly platform provides easy, quick access to all relevant data so you can react rapidly to avoid severe problems in the lab.



Remote monitoring

> Monitor connected lab devices and track status, parameters, and performance.



Real-time-notification

> Get alert and event notifications to address issues quickly.



Easy Device data export

> Export device parameter, event data, and any user interactions.



Alert Management & Response-Based Escalation

- > Track all alert acknowledgements with time-stamped data logs.
- > Define escalation schemes to indiviual or multiple recipient groups based on lab presence.



Connectable Devices

Do you already have a new Eppendorf device with a touch screen?:

Then you're ready to start VisioNize Lab Suite.Out-ofthe-box connectivity with VisioNize onboard devices:

Eppendorf ULT Freezers CrvoCube® F740i CrvoCube® F740hi CrvoCube® F740iw

CryoCube® F740hiw

Eppendorf CO₂ Incubators CellXpert® C170i

Eppendorf Shakers

CellXpert® CS220 Innova® \$44i* *only compatible after serial number

S4411H302546

Eppendorf Cyclers

Mastercycler® X50 series* Mastercycler® X40

*Mastercycler X50 eco not supported without Mastercycler X50 master device

No VisioNize® onboard devices? Don't worry, easily connect with our connect ware VisioNize box 2 or VisioNize sense equipment*:

VisioNize box enabled

The VisioNize box 2 and VisioNize box 2 cable acts as a hardware hub and works as a translation system enabling data collection of the device data in VisioNize Lab Suite

VisioNize sense

Connect your non-Eppendorf devices to the VisioNize Lab Suite. With VisioNize sense monitor and sensors you can monitor, e.g., ambient temperature, humidity, pressure & light, and temperature of any device (including ULT freezers) within the range of +60 to -90 °C.

*Note: VisioNize sense equipment and VisioNize box 2 not available worldwide. Please contact us for local availability.

VisioNize box enabled devices

Eppendorf Centrifuges
Centrifuge 5910 R
Centrifuge 5424 R
Centrifuge 5425
Centrifuge 5425 R
Centrifuge 5427R

Eppendorf CO₂ Incubators

New Brunswick S41i CellXpert® C170 Galaxy 48R

Eppendorf Shakers Innova® 40/40R

Innova® 42/42R Innova® 43/43R Innova® 44/44R

Eppendorf Thermomixer

Eppendorf ThermoMixer C, F0.5, F1.5, F2.0, Fp Eppendorf Thermostat C

Mastercycler® Nexus

Eppendorf Cyclers

Mastercycler® Nexus Gradient Mastercycler® Nexus flat Mastercycler® Nexus X2 Mastercycler® nexus GX2 Mastercycler® Nexus SX1 Mastercycler® Nexus GSX1

Eppendorf ULT Freezer

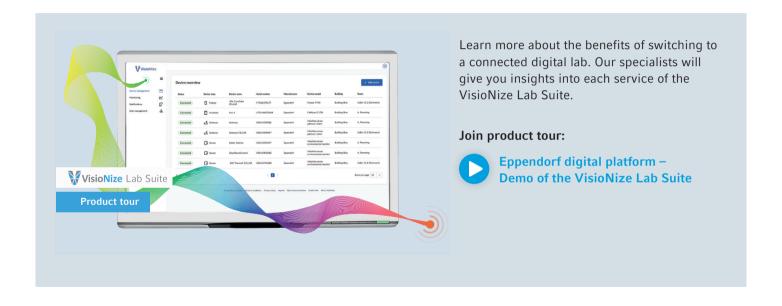
CryoCube® F440n CryoCube® F440h CryoCube® F570

Eppendorf ULT Freezer

CrvoCube® F570h CrvoCube® F570hw CrvoCube® FC660 CryoCube® FC660h CryoCube® F740 CryoCube® F740h Innova® U101 Innova® U535 Innova® U570 Innova® U725 Innova® U725-G Innova® C760 Innova® C585 Premium U410 Premium U570 **HEF U410**



Experience the VisioNize Lab Suite





Features of VisioNize Lab Suite



Real-Time Monitoring

Monitor your devices remotely and track device status, parameters (e.g. temperature), and history from anywhere



Alert Management

Track all alert acknowledgements with time-stamped data logs



Easy Data Access

Export device and event data, as well as logged user interactions



Instant Notifications

Receive alert and event notifications and quickly address any issues



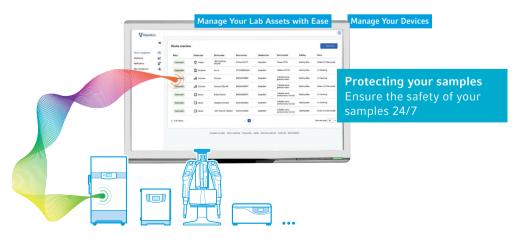
Device Connectivity

Connect and monitor all your temperature-controlled devices including 3rd party with VisioNize sense monitoring kit



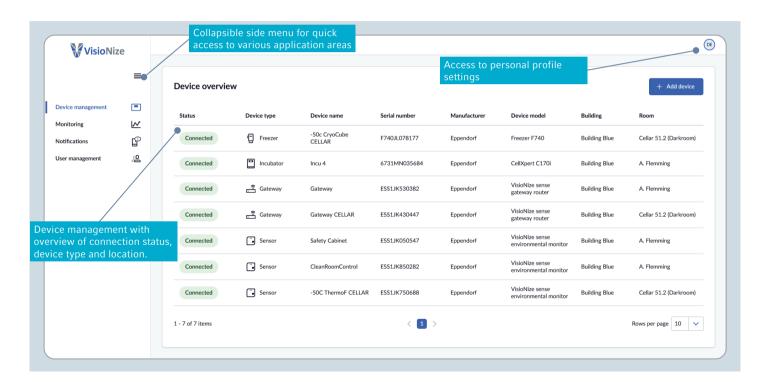
Response-Based Alert Escalation

Define escalation schemes to individual or multiple recipient groups based on presence in the lab



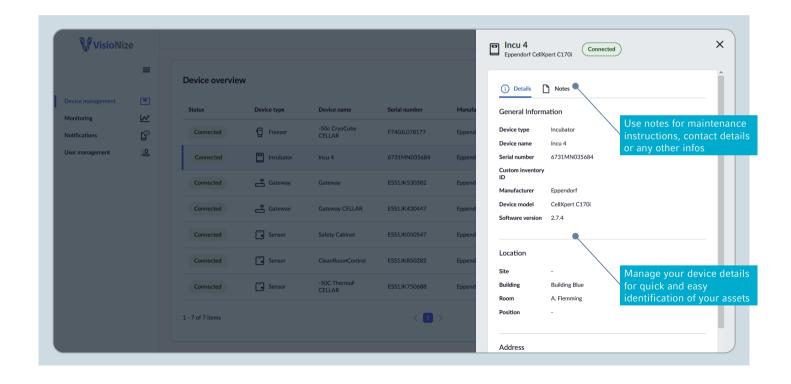


Intuitive User Interface Optimized for Diverse Laboratory Needs



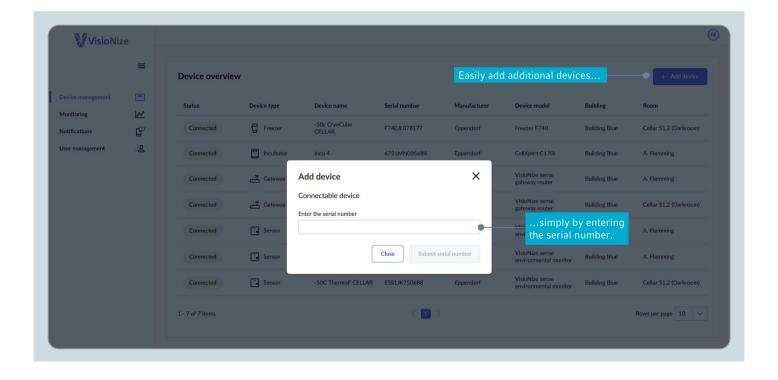


Manage your Lab Assets with Ease

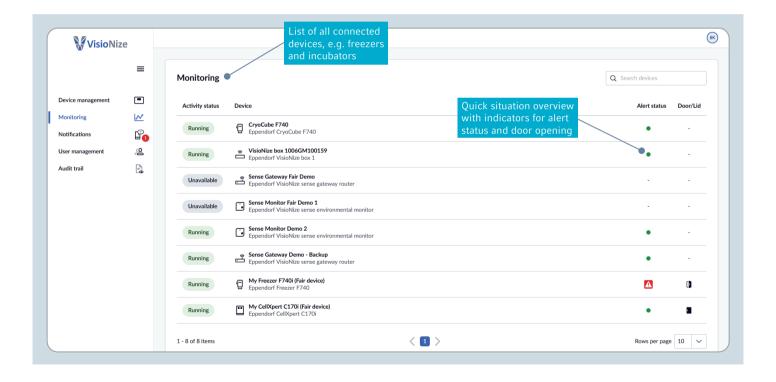




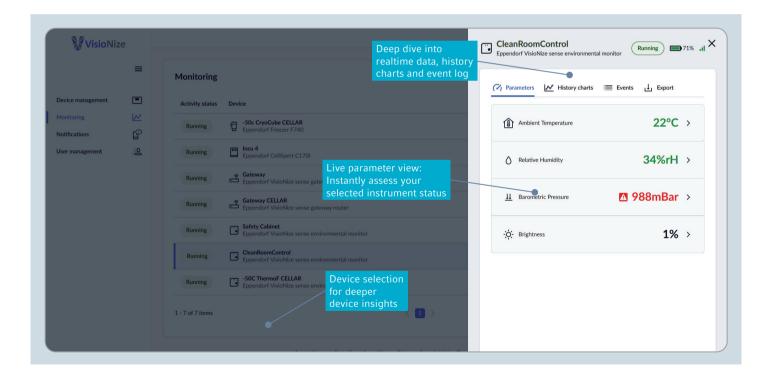
Manage your Lab Assets with Ease



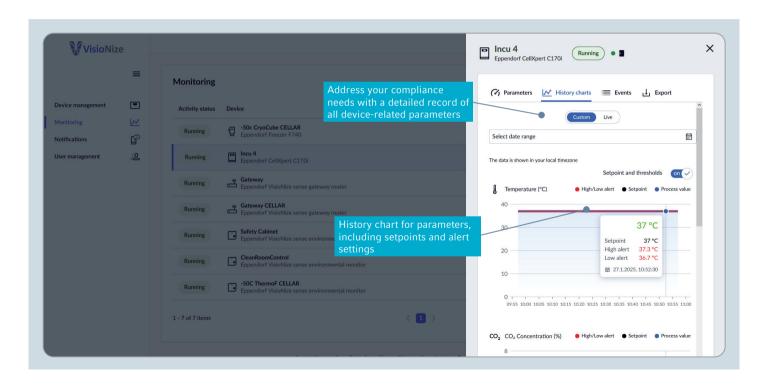




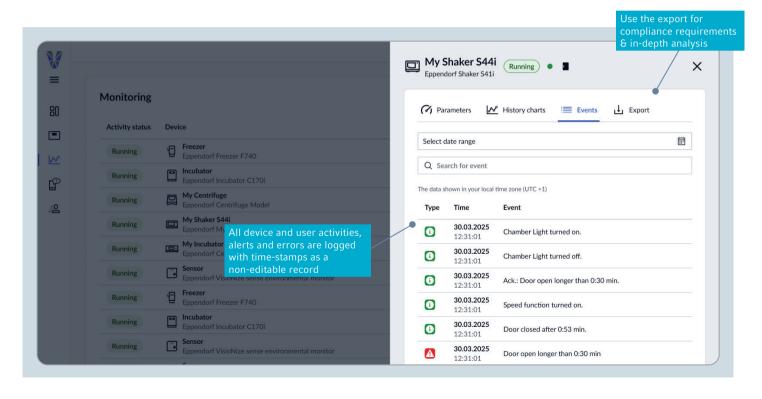








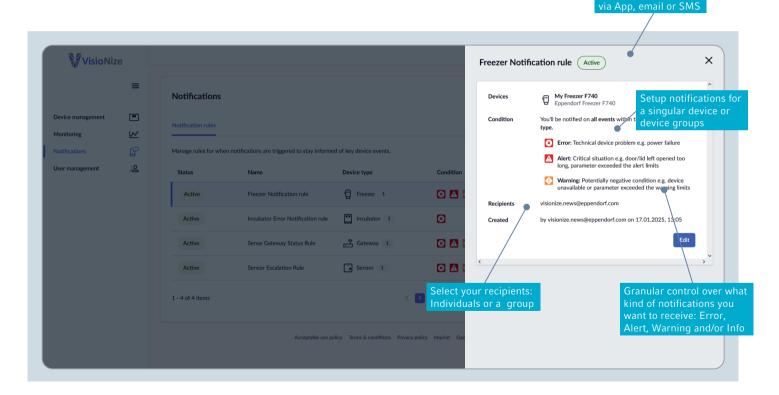






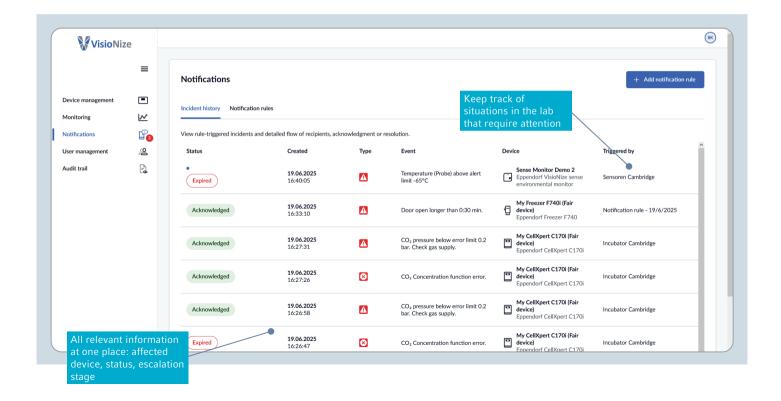
rules to receive alerts

Your Enhanced Safety Net with Incidents & Alerts





Your Enhanced Safety Net with Incidents & Alerts





Benefits of Connecting Your Freezers to VisioNize Lab Suite

- > Monitor your entire freezer fleet and document all related device parameters like temperature and ambient temperature as well as all device interactions, e.g., set-point changes
- > Export parameter and event data

- > Receive **real-time notifications** via email and SMS:
 - "Temperature above alert limit -60°C"
 - "Door open longer than 2:00 min."
 - "Main power failure. Check power supply to the device."





Benefits of Connecting Your Incubators to VisioNize Lab Suite

- > Monitor your incubators and track all related device parameters such as temperature, 0, and CO, as well as all device interactions, e.g., set-point changes
- > Export parameter and event data

> Receive **real-time notifications** via email and SMS: "Temperature below alert limit 30°C" "CO₂ pressure below warning level 0.4 bar. Check gas supply." "Long door opening: Close the door."





Benefits of Connecting Your Shakers to VisioNize Lab Suite

- > Monitor your shaker runs and track all related device parameters such as temperature, agitation, and remaining runtime as well as all device interactions like set-point changes
- > Export parameter and event data
- > Receive **real-time notifications** via email and SMS: "Program 'pre-culture' has finished." "Temperature below alarm limit 30°C" "Door open longer than 5:00 min."





Benefits of Connecting Your Cyclers, Mixers and Centrifuges to VisioNize Lab Suite

- > Monitor all device-related parameters like temperature and agitation as well as all device interactions like set-point changes
- > Check the current status of your experiment
- > Export parameter and event data

- > Receive **real-time notifications** via email and SMS:
 - "Execution of program ended"
 - "Imbalance: imbalance during run"





Enabling Connectivity with VisioNize box 2

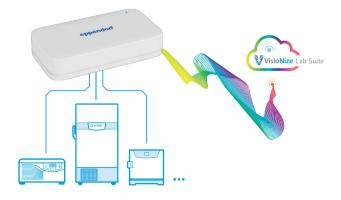
The easy-to-install hardware hub connects your VisioNize box enabled devices to the VisioNize Lab Suite.

The hub works as a translation system, enabling data collection of the device data in the platform. The box offers connections for up to four devices depending on the lab infrastructure/device location.

- > Connect VisioNize box enabled (Eppendorf) devices like freezers, incubators, shakers, centrifuges and thermomixers
- > Monitor all device-related parameters and run statuses
- > Have all parameter data ready for export

Order VisioNize box 2 or VisioNize box 2 cable via the Eppendorf e-shop or contact your local Eppendorf sales representative.

- > Receive notifications for connected devices covering:
 - > Significant parameter changes
 - > Frrors
 - > Device status changes





Enabling Connectivity with VisioNize sense equipment

VisioNize sense equipment can capture, record and transfer even the smallest changes in your environmental conditions to VisioNize Lab Suite. Use VisioNize sense to monitor your lab rooms, CO₂ incubators, fridges or freezers from any supplier.

- > Sensors can be used for any kind of temperature-controlled device monitoring (from -90°C to +60°C)
- > Configure temperature limits in VisioNize Lab Suite and receive notifications via SMS or email.
- > All temperature data will be documented for audits
- > Use VisioNize sense as an independent (redundant) temperature probe for a fridge or freezer

> The environmental sensor tracks additional parameters, e.g., ambient temperature (-10°C to +59°C), humidity (0 % to 95 %, non-condensing), pressure (700 mbar to 1.200 mbar) and **brightness** (0 % to 100 %).

Order VisioNize sense equipment and VisioNize box 2 as connectivity hub via the Eppendorf e-shop or contact your local Eppendorf sales representative.







Getting You and Your Lab Connected

Make the right preparations for your digital lab. We recommend checking the following before subscribing to the VisioNize Lab Suite and its services.

- 1. Check the **IT prerequisites** for VisioNize Lab Suite with the VisioNize Lab Suite Setup Guide*
- 2. Check the compatibility of your device by having a look in the VisioNize Lab Suite Device Overview*
- 3. Check what else is required for connecting your lab devices, e.g., VisioNize box 2, VisioNize box 2 cable or VisioNize sense equipment

For more guidance and precise planning, contact your local Eppendorf sales representative.



Find helpful tips and tricks to help you navigate your lab through digital transformation



^{*}A list of helpful documents can be found in the back including the links to the documents online.



Choose the Plan That Meets Your and Your Labs Needs



You can easily subscribe online with your myEppendorf-Account to receive access to the VisioNize Lab Suite: www.eppendorf.com/visionize-subscription

For starters:

Sign up for free!

VisioNize Lab Suite Essential FREE (for first 3 devices)

Gain free, hands-on experience with VisioNize Lab Suite and enjoy a glimpse into the digital, connected lab. The Essentials plan covers all necessary aspects to get started to digitally manage the lab for increased sample safety.

- > Real-Time Monitoring
- > Email Notification
- > Data Access for 7 days
- > Device Data Export

Please note:

This plan already includes 3 licenses for connected devices right from the start. Each additional device requires an additional license.

Hardware and software upgrades are not included and may require an additional fee.

For more peace of mind:

VisioNize Lab Suite Sample Safety+ Price / device / year

Be confident about your sample safety and guarantee smooth operation around the clock with the Sample Safety+ plan.

Enjoy the enriched feature set in VisioNize Lab Suite for more convenience!

- > All features of Essentials plan
- > SMS Notifications
- > Data Access for 90 days
- > Response-Based Alarm Escalation
- > Audit Trail

Please note:

The price per device license depends on total number of connected devices.



Connect Your Laboratory Devices

Connecting VisioNize touch enabled devices

1. Connect your device:

Connect the Ethernet interface at the rear side of the device to a patched wall port with a standard Ethernet cable.

2. Add the device to your device list:

Navigate to the "Device management" in the VisioNize Lab Suite, click "+ Add device", and enter the serial number.

3. Check the device status:

Please ensure that your device changes from the "Pending" status to "Connected" in the device overview. This may take a while.





VisioNize Lab Suite Setup Guide



Connecting VisioNize box enabled devices

1. Connect the Eppendorf devices to the VisioNize box 2 or VisioNize box 2 cable:

Use an appropriate adapter cable. One VisioNize box 2 or VisioNize box 2 cable can manage up to 4 devices.

2. Update the VisioNize box 2:

Download the latest software version here, unpack the ZIP file on an empty USB stick and connect it to the VisioNize box 2 or VisioNize box 2.

3. Add your VisioNize box 2 to the network:

Connect the Ethernet interface at the rear side of the device to a patched wall port with a standard Ethernet cable. The VisioNize box 2 also offers WLAN configuration - for details refer to the Operating Manual.

4. Add the device to your device list:

Navigate to the "Device management" in VisioNize Lab Suite. click "+Add device", and enter the serial number.

5. Check the device status:

Please ensure that your device changes from the "Pending" status to "Connected" in the device overview. This may take a while.

Connecting VisioNize sense equipment

VisioNize sense equipment, like the VisioNize sense environmental monitor and attached VisioNize sense temperature sensors, can also be connected by using the VisioNize box 2*. Please follow the same setup steps as on the left side (starting with step 2) to connect the VisioNize box 2 as a hub

Repeat step 4 for each VisioNize sense environmental monitor. VisioNize sense temperature sensors will be added automatically.

*Please note: The VisioNize box 2 cable is not able to connect VisioNize sense equipment.



Lab Innovation Drivers & Proud VisioNize Lab Suite Users



"The fast and effective alert system is a huge benefit of VisioNize. We are glad we have a system that we trust will warn us if anything happens, so we can be sure that our samples are kept safe."

Kevin Roth, PhD, Head innovation at MVZ Centre for Laboratory Medicine in Heppenheim

Discover how the VisioNize Lab Suite from Eppendorf has improved efficiency and sample safety in a high-demand molecular testing lab.



Customer Sucess Story: Enhanced Efficiency & Sample Safety with Eppendorf VisioNize Lab Suite



'VisioNize Lab Suite adds value to the lab. We have a lot of sensitive samples and it is really important to not waste time on thinas that should not be problems. VisioNize has been areat in monitoring our devices enabling users to regulate things from afar.'

Ashmita Jha, Research Assistant, MIT, **Boston, United States**





'VisioNize Lab Suite helps us automatically log device data and use it for further purposes. This makes our evaluations extremely robust and our protocolling complete.

Process Development Drug Substance, CureVac AG, Tübingen, Germany

'An unreliable freezer that I could not monitor from outside has been one of my negative experiences in the past. Thanks VisioNize® Lab Suite, I am confident that our samples are safe as it allows monitoring from anywhere and warns irregulatories immediately.'

Prof. Dr. Sabine Ellinger, Institute of Nutrition and Food Sciences. **Human Nutrition, Uni Bonn**





'We expect lab instruments to be connectable which is why we chose Eppendorf for our -80°C freezers and cell culture incubators.'

Kilian Guse, PhD, CEO an Co-Founder, GeneOuine Biotherapeutics.



Everything at a Glance

Get ready to setup the VisioNize Lab Suite: www.eppendorf.com/visionize-setup-guide

Learn what is required to connect your device: www.eppendorf.com/visionize-device-overview

Request your personal demo here: www.eppendorf.link/visionize-demo

Register and manage your subscription online: www.eppendorf.com/visionize-subscription

Explore all Eppendorf digital lab solutions here: www.eppendorf.link/visionize



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