



# VisioNize<sup>®</sup> Product Guide

You and Your Lab. Connected.



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VisioNize-onboard freezer F740hi combined with VisioNize.

# What is VisioNize®?

VisioNize is the Eppendorf Digital Platform that delivers valuable services for our Eppendorf lab devices – to continuously improve lab life by increasing efficiency, convenience, and offering more peace of mind.

**VisioNize consists of the following components:**

**VisioNize services**, accessed by the **VisioNize Digital Lab Space** on any client computer or mobile device.

**It displays the data from connected Eppendorf devices:**

The **VisioNize-onboard devices** that come equipped with the **VisioNize touch interface**.

Find out more on the next few pages.

## Why Connect? More Value Thanks to Connectivity.

**By connecting Eppendorf devices to the VisioNize Digital Lab Space, you can:**

- > Remotely **monitor** device performance
- > Receive **notifications** if there's an alarm or event
- > Gain access to device information through the **device management** view

**VisioNize helps you to:**

- > Manage your lab remotely from anywhere at anytime
- > Increase productivity and avoid lab equipment downtime through customized notifications
- > Easily create device data documentation

Notifications



Monitoring



Device Management







# Remotely Monitor Your Lab Equipment

Monitor your laboratory equipment **in real time**, whenever and wherever you want and perhaps also benefit from enhanced insights into equipment health and sample safety with VisioNize®.

Check your device when you **receive an alarm** and follow up with precise decision-making. As a researcher, for example, you can **check the status of your program** run and **plan your next workflow steps**.

The color coding in the **monitoring** view provides a **visual indication** of the current device state, including for example availability, alarm state and progress of the program run.

All **historical data will be saved** in VisioNize Digital Lab Space and displayed in a chart as well as in an event list. This improves traceability and documentation for your audits.

Selected devices in the **device management** app display general information like the serial number and the currently installed software version, which might be requested during a service visit.

Monitoring



Device Management





Configure and receive individual notifications on the basis of your and your lab's needs

# Respond to Issues Quickly!

With VisioNize, you can set up **customized notifications** on the basis of individual interest and needs. This might include receiving alarm and error messages for door and temperature alarms, for example.

VisioNize also offers the **notification categories** »device status« and »device maintenance« to cover run status and maintenance tasks. The user can select specific categories and lab equipment and the preferred message channel.

**All notifications** can be sent by text message and email. If an SMS cannot be sent an email is generated and sent automatically.

## Notifications





Out-of-the-box connectivity with VisioNize-onboard devices. Four devices are ready to go!

# A Sound Base: The VisioNize-onboard Product Family

All our VisioNize-onboard devices come equipped with the VisioNize touch interface, which provides a convenient user experience as well as enables smart features like recurring tasks or device monitoring on the device itself. In addition, VisioNize-onboard devices are made for immediate connection to the VisioNize Digital Lab Space.

**The VisioNize product family includes:**

- > CryoCube® F740hi ULT freezer
- > Innova® S44i biological shaker
- > CellXpert® C170i CO<sub>2</sub> incubator
- > Mastercycler® X50 PCR cycler
- > SciVario® twin Fermenter/Bioreactor Control System

**This is only the beginning ...**

Engineered  
Sustainability



# System Features on all VisioNize-onboard Devices

- > **Access to tracking and trend data:** Conveniently see all your important settings and data on a single screen with customized views.
- > **Event monitoring and tracking:** Every interaction with the device is tracked and visible in the event tracking history for your controlled lab environment.
- > **Integrated user management:** User management\* in each VisioNize-onboard device enables device access authorization and appropriate tracking.
- > **Adaptable alarm settings:** Alarm thresholds and the timepoint of an alarm trigger can be adapted to your needs – you can easily activate and deactivate alarm settings.
- > **Export feature:** Easily transfer your information to your computer or colleague using the export feature and front-mounted USB port.

\*User management not applicable to SciVario twin yet.

# Onboard Features of the CryoCube® F740hi ULT Freezer

## Advanced access control

Access to your most vulnerable and high-value samples are controlled with the automatic door lock linked to the device's user management.

## Integrated user management

Prevent uncontrolled access to samples and changes to setpoints and settings, while enjoying the benefit of comprehensive traceability.

## Recurring tasks

Define recurring tasks for maintenance or service or other custom tasks like, for example, »defrost« or »clean filter.«

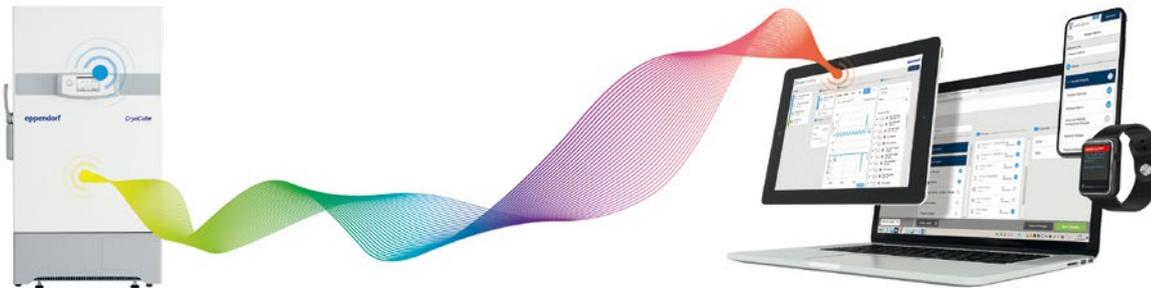


# Transform Your Freezer into Smart Storage

Keep your valuable samples safe and sound by connecting your freezer to the VisioNize Digital Lab Space. Monitor the freezer performance remotely and respond immediately. Your precious samples will be on »cloud 9.« All performance data will be saved in your Digital Lab Space, thereby allowing unlimited storage capacity. There is no limitation in terms of chart or event capacity.

## Be informed about alarms and events like:

- > »Door open longer than 0:30 min.«
- > »Temperature above alarm limit -70°C.«
- > »F740hi: Main power supply failure. Check power supply to the device.«



# Onboard Features of the Innova<sup>®</sup> S44i Biological Shaker

## Documentation of parameters

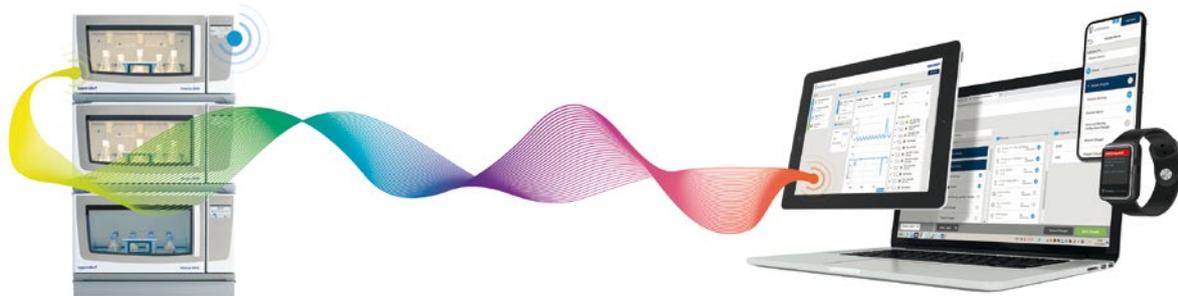
Versatile documentation of all parameters: temperature, agitation, light intensity and more via the chart view or event list.

## Alarm and error documentation

Make complicated runs simple: create multistep programs for automated control of the shaker including looping.

## Indications for adjustments

Automated imbalance detection and intelligent counterweight adjustment.



Transformation is coming soon!

# Transform Your Shaker into Smart Cultivation

By connecting the S44i with the VisioNize Digital Lab Space, you can easily create documentation of device data of your device data. In addition, VisioNize notifies you if a program has finished or someone has changed the settings of the shaker you are currently using.



# Onboard Features of the CellXpert® C170i CO<sub>2</sub> Incubator

## Practical guidance for standardized procedures

Eppendorf guides you step by step through the disinfection process via an integrated wizard and then documents it in a certificate.

## Comprehensive documentation

Filter and export performance charts and disinfection certificates to fulfill ever-increasing demands for documentation of cell conditions (e.g., in regulated environments).

## Standard and customized tasks

Preinstalled and customer-programmed tasks can be set with VisioNize to remind you of remind you to perform such regular tasks as running a disinfection cycle, cleaning, splitting cells and refilling the water reservoir.



# Transform Your CellXpert into Smart Incubation

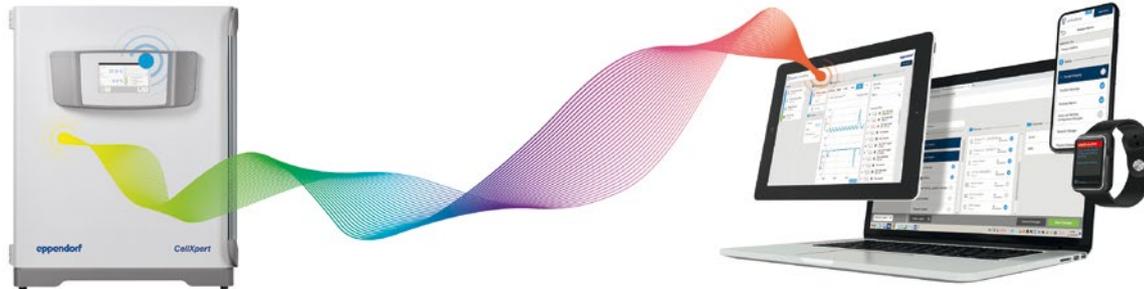
Experience smart cultivation with the CellXpert® CO<sub>2</sub> incubator and VisioNize® to help you establish specific cell-conserving user habits in your lab and streamline recurring routines. During the whole incubation time, all incubator data and events will be documented and archived.

## Be informed about alarms and events like:

- > »Door open longer than 5:00 min«
- > »Temperature below alarm limit 35°C«

## Maintain the perfect environment for your cells:

- > »CO<sub>2</sub> pressure below alarm level 0.02 MPa. Check gas supply.«
- > »Recurring event: High-temperature disinfection is due.«



## Onboard Features of the SciVario® twin

### **Assisted guidance**

Intelligent wizards lead you through processes, including the execution of error-prone procedures like calibrations and setting up control logic.

### **Easy-to-follow monitoring**

Critical process parameter on both units in parallel will be monitored, including an interactive roadmap that keeps you updated and lets you know what step will come next.

### **Keeping track**

Easy and fast reporting based on process records, including data tracking events, templates and meta-information.

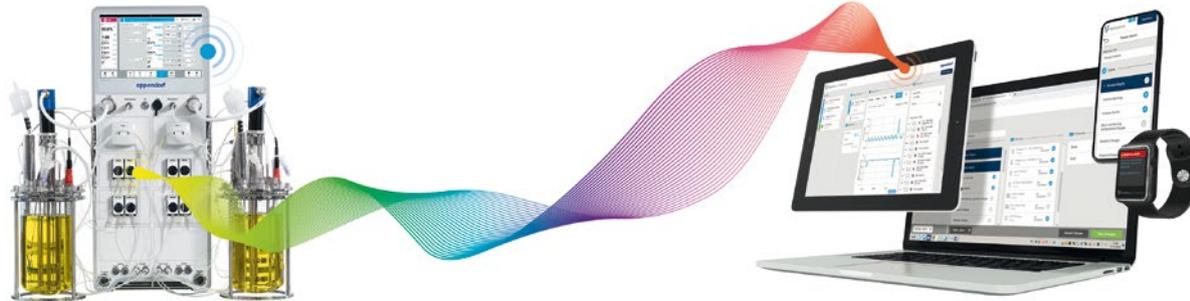


# Transform Your SciVario into Smart Bioprocessing

You can enjoy more peace of mind by connecting your bioreactor controller to the VisioNize Digital Lab Space. Receive notifications if a process has finished or if something requires your attention.

## Be informed about events such as:

- > »Speed set point changed from 200 rpm to 300 rpm.«
- > »Temperature below alarm limit 29.5°C.«
- > »Check the progress of your culture in real-time graphs.«





# Onboard Features of the Mastercycler® X50 PCR Cycler

It's not only a touch display, it also helps you to make the most of every program step. The VisioNize touch interface enables versatile functions in your Mastercycler X50 and offers intuitive and quick programming when you first get started.

## **Full Control**

Overview of program steps and status as well as easy and intuitive setup plus adjustment of protocols.

## **Easy User Management**

Lab managers can create and release defined programs, thus restricting access to these programs.

## **Comprehensive Documentation**

Automated PDF creation, including all your results as well as related program information.



Transformation is coming soon!

1



Sign up

The icon depicts a blue cloud outline. Inside the cloud is a rectangular frame representing a user profile card. The card features a circular placeholder for a profile picture on the left and a list of three horizontal lines on the right. A blue checkmark is positioned in the bottom right corner of the card, indicating a successful registration process.

2



Add to cart

The icon shows a blue cloud outline. Inside the cloud is a shopping cart with four wheels and a handle. Above the cart, there is an '@' symbol followed by two right-pointing arrows (>>), suggesting an email-based or digital cart functionality.

3



Connect

The icon features a blue cloud outline. Inside the cloud is a smartphone. A blue cable is connected to the bottom of the phone, with a circular end, symbolizing a physical connection or network link.

# Leverage the Benefits of Connectivity

Combine the longevity and quality of our Eppendorf lab equipment with our digital lab companion VisioNize.

**All you have to do is:**

- > Visit [www.eppendorf.com/visionize-subscription](http://www.eppendorf.com/visionize-subscription) and sign in with your myEppendorf account.
- > Add VisioNize to your shopping cart and check out. You will receive login information via email.
- > Connect your devices to the network with ethernet cable and start monitoring your lab devices.

**All you need to know about setting up VisioNize in your lab:**

- > Visit [www.eppendorf.com/visionize-setup](http://www.eppendorf.com/visionize-setup)



# Security Matters!

## **Data security is the highest priority for us at Eppendorf!**

We have implemented standards and policies to help protect data from unauthorized access in the VisioNize Digital Lab Space and on our Eppendorf lab equipment.

VisioNize is based on the Microsoft® Azure cloud infrastructure from Microsoft® and takes advantage of its wide array of security tools and capabilities. All servers running VisioNize and all data storage are located within the EU.

Further details on the subject of data security can be found here:

[www.eppendorf.com/visionize/security](http://www.eppendorf.com/visionize/security)

## Need Help?

If you have any questions, visit our website and check our frequently asked questions or contact your local Eppendorf service representative.



> Link for FAQs and technical details here:  
[www.eppendorf.com/visionize/faq](http://www.eppendorf.com/visionize/faq)

# Personal Notes

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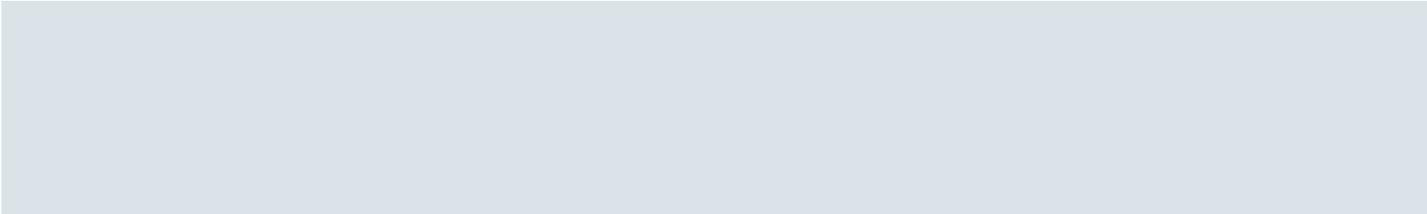
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