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Instruction Manual

Touch Display
for ibidi Stage Top Incubators – Silver Line

12700 Touch Display

Version 1.0

ibidi.com

Instructions
& Software

ibidi.com/stagetop

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1 Preamble

1.1 Introduction

This manual is your guide for using the Touch Display.

Before using the Touch Display, please read this instruction manual carefully and ensure that safety precautions and instructions are followed to maintain the warranty. This manual should be easily accessible to the operator at all times during instrument operation. The online version of the manual can be found at ibidi.com, or additional copies can be requested via techsupport@ibidi.com.

To ensure safe operation, the Touch Display must only be operated with the supplied components and according to the instruction manual.

For Research Use Only! Not for use in diagnostic procedures.

The Touch Display (product number 12700) can be used with the Stage Top Incubators, Gas Incubation Systems and Heating Systems – Silver Line (product numbers 12110, 12130, 12150, 11921, 11923, 12720, 12722, 12724, 12726).

1.2 Safety Symbols

Note that the signal words **WARNING**, **CAUTION** and **NOTE** have specific meanings in this manual. Do not proceed beyond a signal word until you have performed the indicated actions. Warning messages in the text are displayed in a gray-shaded box. Please see Section 1.6 for general safety considerations.

WARNING – A potentially hazardous situation which, if not avoided, could result in serious injury or even death.

CAUTION – A potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It is also used to alert against damaging the equipment or the instrument.

NOTE – Additional information to help achieve optimal instrument and assay performance.

Symbols on the product identification label and back panel of the device:

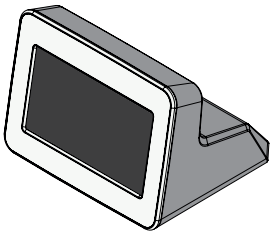
CE Marking: This symbol indicates the product's compliance with EU legislation.

This label is positioned on the back of the device and prompts you to read the manual before using the device.

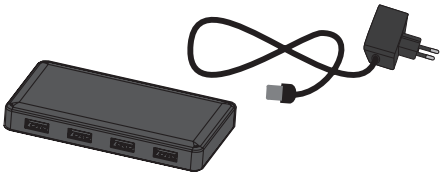
Product disposal: The symbol indicates that this product must be recycled/disposed of separately from other household waste. See page 11 for details.

1.3 Nomenclature

The Touch Display consists of the following components:



Touchscreen display with housing



USB hub with power supply

USB-C cable

1.4 Specifications

Only operate the Touch Display in the specification ranges provided below:

Table 1: Specifications of the Touch Display

Electrical Specifications	
Overvoltage category	II
Input line voltage	100–240 V, 50/60 Hz
Output voltage	DC 5 V, 3 A
Operating Conditions	
Operating site	Indoor use only
Operating temperature	18–30 °C/64–86 °F
Operating humidity	max. 80 % relative humidity
Operating altitude	max. 2000 m (atmospheric pressure 800–1060 hPa/ 11.6–15.4 psi)
Storage conditions	-5–50 °C/23–122 °F, humidity <60% relative humidity (RH)
Outer Dimensions and Characteristics	
Dimensions (w × d × h)	124.5 mm × 95 mm × 93.5 mm
USB connectors	1× USB-C (power supply), 1× USB 3.0 (for data logging and export)
Data storage capacity	32 GB
LCD Display	
Type	Capacitive touch
Size	4.3”
Resolution	800 × 480 pixels

continued. . .

Table 1: (continued)

Battery for Data Logging Function	
Battery type	Lithium metal battery (button battery),
type CR2032, 3 V	
USB Hub and Cables	
Dimensions USB hub (w × d × h)	106.95 mm × 58.25 mm × 14.60 mm
USB ports	4× USB 3.0; 3× USB-C (Power: power supply only, USB-C IN: power and data, Data: data only)
Length of USB-C data cable	2 m
Length of USB-C power cable	1.5 m
Compatibility With ibidi Controllers	
Compatibility	ibidi Temperature Controller – Silver Line (product numbers 12110, 12130, 12150, 12720, 12722, 12724, 12726); heating channels 1–3 ibidi Gas Mixer – Silver Line (product numbers 11921, 11923, 12720, 12722, 12724, 12726) ibidi Gas Mixer – Blue Line (product numbers 11920, 11922)

NOTE – This product is only compatible with the ibidi Temperature Controller – Silver Line, hereafter abbreviated and referred to as “Temperature Controller”.

1.5 Disclaimer

- ibidi shall not be held liable, either directly or indirectly, for any damage incurred as a result of product use.
- The contents of this manual are subject to change without notice for product improvement.
- This manual is considered complete and accurate at publication.
- This manual does not guarantee the validity of any patent rights or other rights.
- If an ibidi software program doesn't function properly, this may be caused by a conflict with another program operating on the computer. In this case, take corrective action by uninstalling the conflicting product(s).
- ibidi is a registered trademark of ibidi GmbH in Germany and other countries.

1.6 Safety Guidelines

WARNING

- Only operate the Touch Display with the supplied components and the compatible ibidi Controllers.
- Only use the cables and plugs delivered with the Touch Display. The power supply of the Touch Display must be connected to an outlet with a ground (earth) contact.
- Safe disconnection from the electrical grid is only achieved by removing the power plug from the outlet.
- Do not replace detachable power cables with inadequately specified cables. Violations of these instructions can result in electric shock and fire.
- Do not operate the Touch Display under conditions that pose a risk of explosion, implosion, or the release of gases.
- Do not place flammable solids, liquids, gases, or gas outlets (e.g. matches, ethanol, propane, solvents) near the Touch Display or any of the other components of the system.
- Keep out of direct sunlight.
- Do not operate a damaged Touch Display. If the Touch Display seems to be damaged, contact techsupport@ibidi.com.
- Do not operate the Touch Display with other batteries than specified.
- Keep small cells and batteries out of the reach of children. Swallowing or ingesting a battery may cause burns, perforation of soft tissue, and death. Severe burns may occur within 2 hours of ingestion. If a cell or battery is swallowed, seek medical assistance immediately.
- If a battery leaks, avoid contact with skin or eyes. If contact occurs, rinse the affected area thoroughly with water and seek medical attention immediately.

CAUTION

- Ensure that the external power supply is easily accessible. The Touch Display must be installed in such a way, that none of its components hinders access to the external power supply.
- Immediately replace damaged cords, plugs, or cables to avoid the risk of personal injury or damage to the instrument.
- Only ibidi technical staff and technical staff instructed by ibidi are permitted to open and service the Touch Display.
- The Touch Display should not come in contact with moisture. If the housing is damaged, the external power supply should not be used.
- Avoid strong magnetic fields and sources of high frequency. The Touch Display might not function properly when located near a strong magnetic field or a high-frequency source.
- Avoid vibrations from vacuum pumps, centrifuges, electric motors, processing equipment, and machine tools.
- Avoid dust and corrosive gas. Do not install the Touch Display where it could be exposed to high levels of dust, outside air, or ventilation outlets.
- Install the Touch Display in a location that enables easy access for maintenance.
- Do not place heavy objects on the Touch Display.
- The battery should remain in its original packaging until use. It must not be disassembled, opened, or crushed. Do not store batteries in a way that allows them to short-circuit each other or be short-circuited by other metal objects.

1.7 Limited Warranty

Products manufactured by ibidi, unless otherwise specified, are warrantied for a period of one year from the date of shipment to be free of defects in materials and workmanship. If any product defects are found during this warranty period, ibidi will repair or replace the defective part(s) or product free of charge.

This warranty does not apply to defects resulting from the following:

1. Improper or inadequate installation.
2. Improper or inadequate operation, maintenance, adjustment, or calibration.
3. Unauthorized modification or misuse.
4. Use of consumables, disposables, and parts not supplied by an authorized ibidi distributor.
5. Corrosion due to the use of improper solvents, samples, or due to surrounding gases.
6. Accidents beyond ibidi's control, including natural disasters.

This warranty does not cover consumables, such as cell culture chambers and dishes, tubes, fluidic connectors, reagents, etc.

The warranty for all parts supplied and repairs provided under this warranty expires on the warranty expiration date of the original product.

1.8 Repairing the Touch Display

For inquiries concerning repair service, contact ibidi GmbH technical support (techsupport@ibidi.com) and provide the model name and serial number of your system.

CAUTION – Do not try to repair the Touch Display by yourself. Disassembly of the Touch Display is not allowed. Disassembly poses a risk of personal injury or damage to the device. Contact ibidi technical support if there is a need to disassemble a device.

CAUTION – The battery must be taken out of the device before postal transport, including returning the device to ibidi for maintenance or repair.

1.9 Waste Disposal – WEEE/RoHS Compliance Statement

The European Union (EU) has enacted two directives, the first on product recycling (Waste Electrical and Electronic Equipment, WEEE) and the second on limiting the use of certain substances (Restriction on the use of Hazardous Substances, RoHS).

1.9.1 EU Directive WEEE

The Touch Display must be disposed of in compliance with the WEEE Directive 2012/19/EC.

This symbol on the product is in accordance with the European Union's Waste Electrical and Electronic Equipment (WEEE) Directive. The symbol indicates that this product must be recycled/disposed of separately from other household waste. It is the end user's responsibility to dispose of this product by taking it to a designated WEEE collection facility for the proper collection and recycling of the waste equipment. The separate collection and recycling of waste equipment will help to conserve natural resources and protect human health and the environment. For more information about recycling, please contact your local environmental office, an electrical/electronic waste disposal company or distributor where you purchased the product.

This product uses batteries that are subject to European Directive 2006/66/EC and have to be disposed of separately from normal household waste. Please dispose of the batteries according to your local applicable regulations regarding the collection and recycling of batteries.

1.9.2 EU Directive RoHS

RoHS conformity is declared in the EU-conformity in Section 1.10. The Touch Display meets the requirements set forth in the RoHS Directive 2011/65/EU.

1.9.3 Used Battery Collection

Used button batteries can be disposed of at any public battery collection point, or returned to ibidi free of charge for proper disposal. For further information on used battery collection by ibidi, please refer to the product listing or contact ibidi technical support team at techsupport@ibidi.com.

CAUTION – The battery must be taken out of the device for transport by postal services, including returning the device to ibidi for maintenance or repair.

1.10 Regulatory Statement

EG-Konformitätserklärung
EC Declaration of Conformity

Wir / We

ibidi GmbH
Lochhamer Schlag 11
D-82166 Gräfelfing

erklären hiermit die Übereinstimmung des genannten Produktes mit der Richtlinie 2014/35/EU - Niederspannungsrichtlinie und mit der Richtlinie 2014/30/EU über die Elektromagnetische Verträglichkeit.
Bei Änderungen am Produkt, die nicht von uns autorisiert wurden, verliert diese Erklärung ihre Gültigkeit.

We declare the compliance of the product with the requirements of the Directive 2014/35/EU - Low Voltage Directive and with the Directive 2014/30/EU about the Electromagnetic Compatibility.
Any modification to the product, not authorized by us, will invalidate this declaration.

Laborgerät / laboratory equipment:

Touch Display TD-10-2-2-X-xxxx

Der oben beschriebene Gegenstand erfüllt die Vorschriften der Richtlinie 2011/65/EU vom 08. Juni 2011 zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten.

The object of the declaration described above is in conformity with Directive 2011/65/EU of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Das Produkt entspricht den unten aufgeführten Normen:
The product meets the requirements of the following standards:

DIN EN 61010-1:2020

Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte - Teil 1: Allgemeine Anforderungen Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements

DIN EN 61326-1:2013

Elektrische Mess-, Steuer-, Regel und Laborgeräte. EMV-Anforderungen. Allgemeine Anforderungen
Electrical equipment for measurement, control and laboratory use. EMC requirements. General requirements

Das Produkt ist gekennzeichnet mit/ The product is marked with CE

Gräfelfing, den 22.05.2025 Gräfelfing, 2025-05-22	Dr. Valentin Kahl Geschäftsführer	Valentin Kahl
Ort/Datum	Name, Funktion	Unterschrift
Place/date	Name, Function	Signature

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, ist jedoch keine Zusicherung von Eigenschaften. Die Sicherheitshinweise der Produktdokumentation sind zu beachten.

This declaration certifies the conformity to the specified directives but not includes any warranted quality of the instrument. The safety documentation of the product shall be considered in detail.

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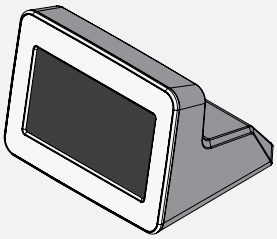
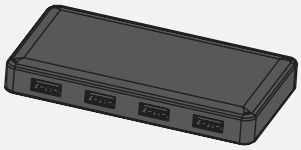
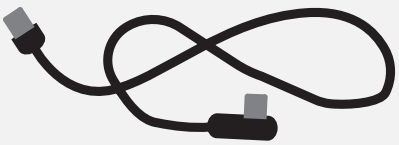
2 Equipment

The ibidi Touch Display is an external touchscreen interface, compatible with the ibidi Temperature Controller and Gas Incubation System. The Touch Display consists of a touchscreen display, USB hub, and USB-C power and data cables. This device provides an intuitive platform for monitoring, controlling and logging of crucial parameters, such as temperature, gas concentrations and humidity during long-term live-imaging experiments.

The components of the Touch Display are listed below:

Component Name	Drawing
Touchscreen display with housing	
USB hub	
USB-C power cable for USB hub	
USB-C data and power supply cable to touchscreen display	
Lithium metal battery (button battery), type CR2032, 3 V	

3 Operation

3.1 Installation and Connection of the Touch Display

The Touch Display allows flexible positioning. Use the Touch Display placed on top of the Gas Mixer and Temperature Controller tower, next to your microscope workplace, or higher up on a shelf.

The Touch Display can be set up in two different orientations: a steep angle or a flat angle, depending on the preferred viewing position (Figure 1).

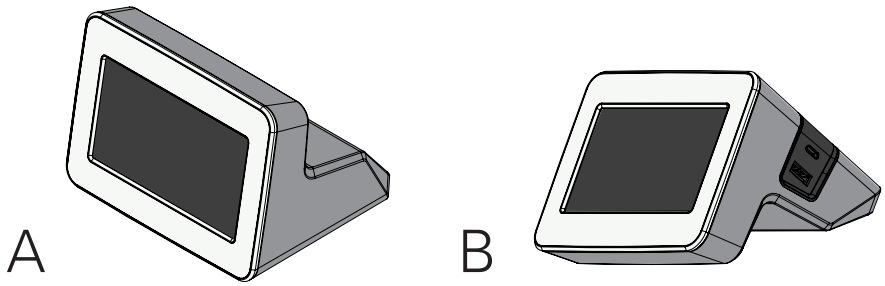


Figure 1: Positioning and orientation of the Touch Display with a (A) steep angle of view or (B) flat angle of view.

3.1.1 Insertion and Removal of Button Battery for Logging Function

The Touch Display has an optional data logging function. To activate this function, insert a CR2032 3V button battery into the battery compartment, located on the underside of the display housing (Figure 2):

- Push the lock of the battery compartment and open the cover (Figure 2, A).
- Insert the button battery (Type CR2032, 3V), with the positive end facing up (Figure 2, B).

Use a tool like forceps or a slotted screwdriver to push the metal pin holding the battery (Figure 2, C) in order to take the battery out of the device. Always take the battery out of the device before sending the Touch Display through postal services.

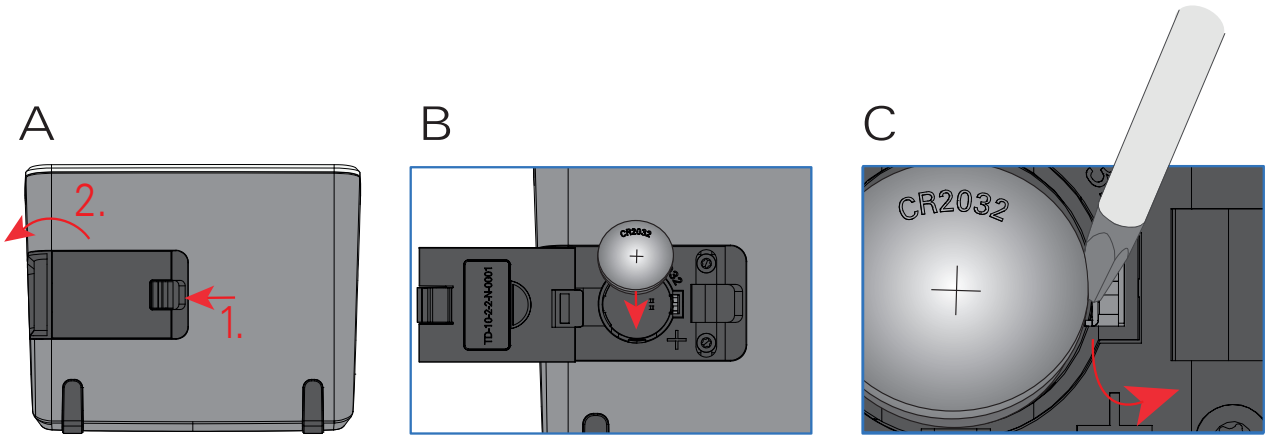


Figure 2: (A) Opening of the battery compartment, (B) insertion and (C) removal of the battery.

WARNING – Only use the specified battery type CR2032, 3V and insert in correct orientation (+ / -). Do not use other batteries. Do not insert with wrong orientation.

WARNING – Keep small cells and batteries out of the reach of children. Swallowing or ingesting a battery may cause burns, perforation of soft tissue, and death. Severe burns may occur within 2 hours of ingestion. If a cell or battery is swallowed, seek medical assistance immediately.

CAUTION – Keep the battery itself and the inside of the battery compartment of the Touch Display dry and clean at all times. If the terminals of the battery are dirty, wipe them with a dry, clean cloth before insertion.

NOTE – If the Touch Display will not be used for an extended period, remove the battery to prevent gradual discharge. Dispose of the battery in accordance with local regulations.

3.1.2 Connection to the ibidi Stage Top Incubator – Silver Line

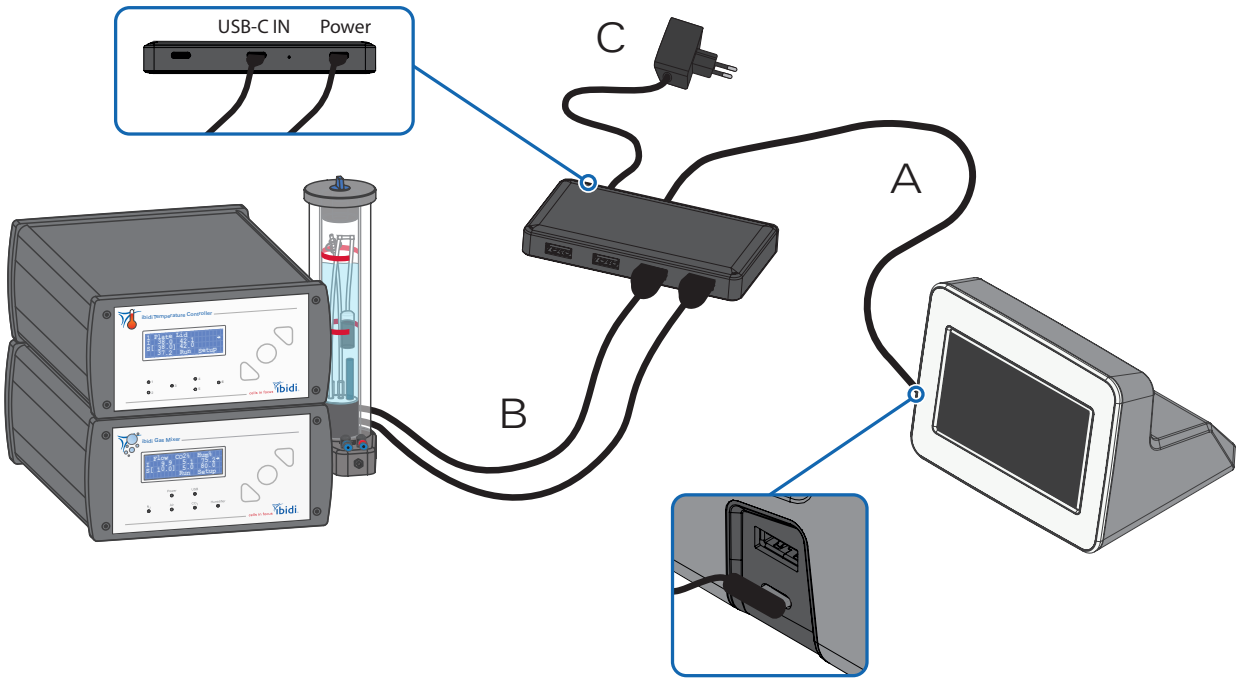


Figure 3: Connection of the Touch Display to the ibidi Stage Top Incubator – Silver Line. (A) USB-C data cable, (B) USB 3.0 cables for the Controllers, (C) USB-C power cable.

To use the Touch Display for controlling the ibidi Stage Top Incubator – Silver Line, follow the installation steps below:

1. Ensure that the Incubation Chamber (and optional Objective Heater) is connected to channels 1 – 3 of the Temperature Controller.
2. Connect the USB-C data cable to the USB-C port on the display housing and to the “USB-C IN” port of the USB hub (Figure 3, A).
3. Use the USB 3.0 cables provided with the respective controllers to connect the ibidi Temperature Controller – Silver Line and ibidi Gas Mixer – Silver Line (or ibidi Gas Mixer – Blue Line) to the USB hub (Figure 3, B).
4. Connect the USB-C power cable to the the “Power” port of the USB hub and plug it into the power supply (Figure 3, C).
5. Once power is connected, the display will automatically begin booting up. The welcome screen will appear after a few seconds (∼10 – 20 s) (Figure 4).

Figure 4: Welcome screen of the Touch Display.

3.2 Power-Up and Power-Down of the Touch Display

The Touch Display automatically begins booting up when it is connected to the power supply via the USB hub (Section 3.1.2 and Figure 5). During the boot-up process, the system establishes a connection to the ibidi controllers.

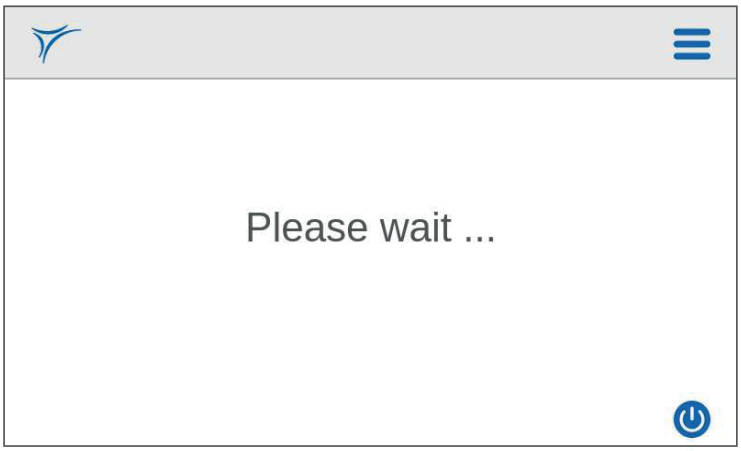


Figure 5: Touch Display searching for controllers during the booting process.

If at least one ibidi controller is connected to the Touch Display, the respective incubation parameters will appear on the main screen under the Temperature Tab and Gas Incubation Tab.

If no controllers are detected, a warning message will appear (Figure 6).

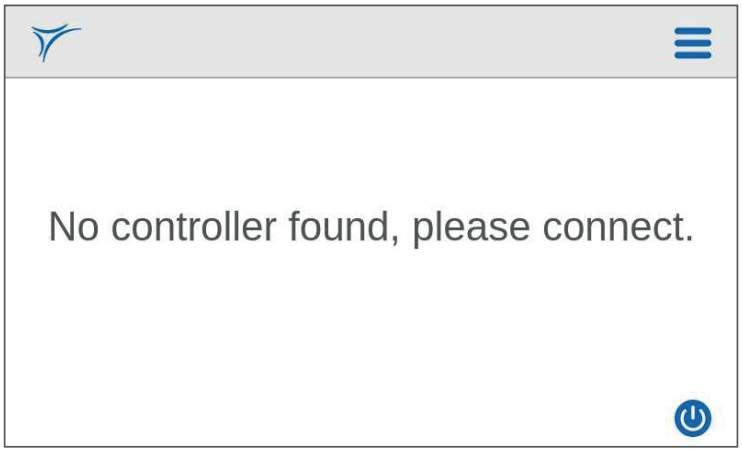


Figure 6: Screen display when no ibidi controllers are connected.

To power down the Touch Display, press the power button located at the lower right corner of every screen (Figure 7). This will prompt the confirmation of shutdown.

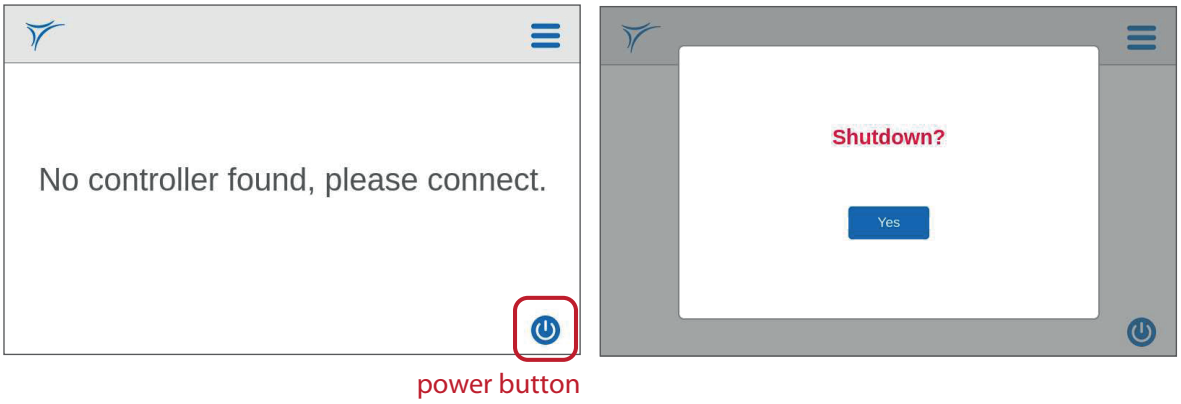


Figure 7: Power button to power down the Touch Display.

The Touch Display will go into power-saving mode. In this mode it is safe to disconnect the Touch Display from the power supply. In order to restart the Touch Display from power-saving mode, press the power button again (Figure 8).

NOTE – Powering down the Touch Display does not shut down the Temperature Controller or the Gas Incubation System. To turn off these devices, use the switches located on the back of each unit.

Figure 8: Power-saving mode of the Touch Display.

3.2.1 First Power-Up

Upon initial power-up and after the insertion of a new button battery, a warning is displayed on the screen (Figure 9), prompting you to set the date and time on the device (Figure 10). This step is necessary to ensure accurate logging of experimental data. When operating the Touch Display without a battery, the setting of the date and time temporarily enables the logging function, but these settings will reset after turning the device off. All other functions of the Touch Display remain unaffected and can be fully accessed without a battery.

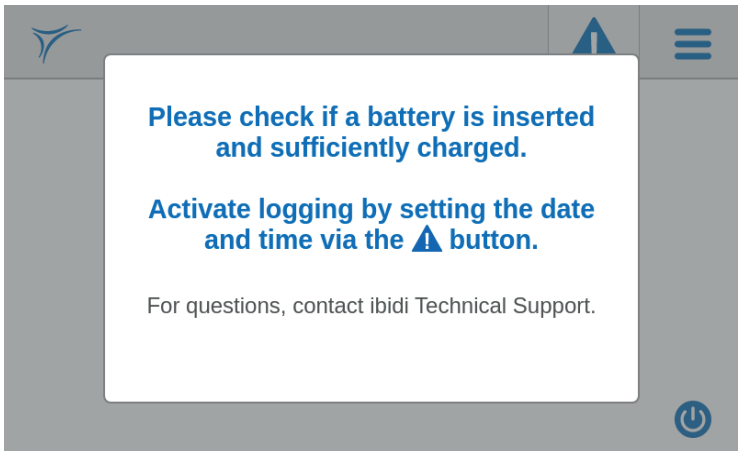


Figure 9: Warning message regarding data logging.

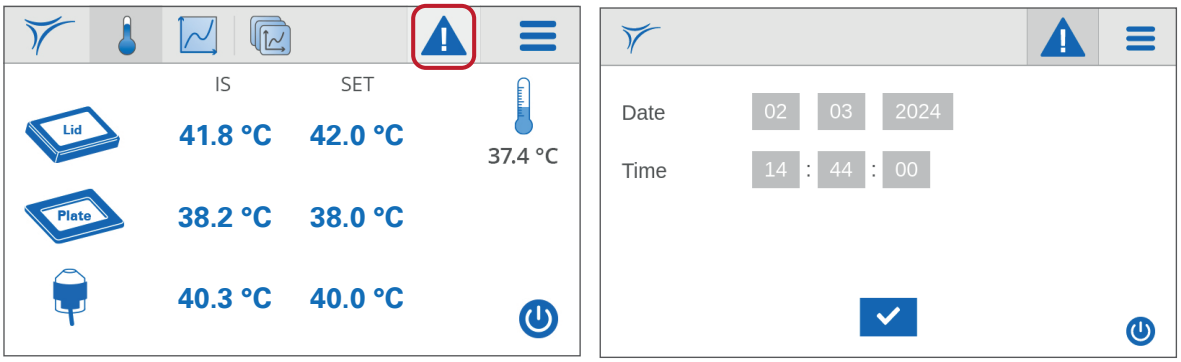


Figure 10: Date and Time menu accessible through the warning sign symbol.

3.3 Controlling the Stage Top Incubation Parameters

If both ibidi controllers are connected, a Temperature Tab and a Gas Incubation Tab are shown (Figure 11, 12). Here the temperature or gas incubation control parameter values are shown and can be adjusted. Tap the symbol of the respective controller in order to switch between the Tabs.

The symbols used for the different control parameters are defined in Section 6.1.

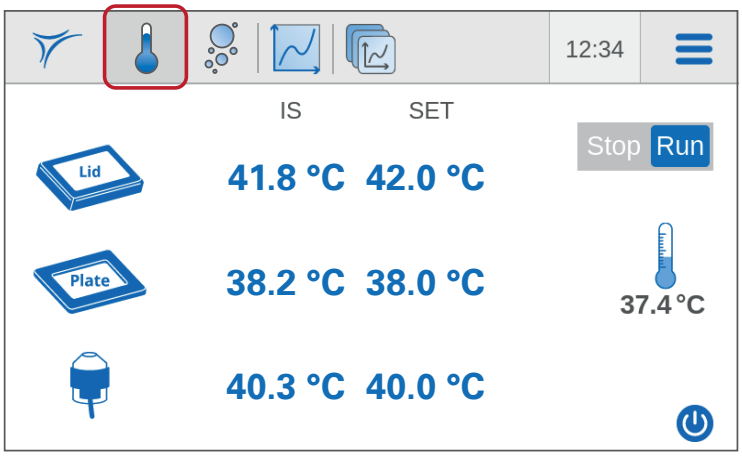


Figure 11: Temperature tab of the Touch Display.

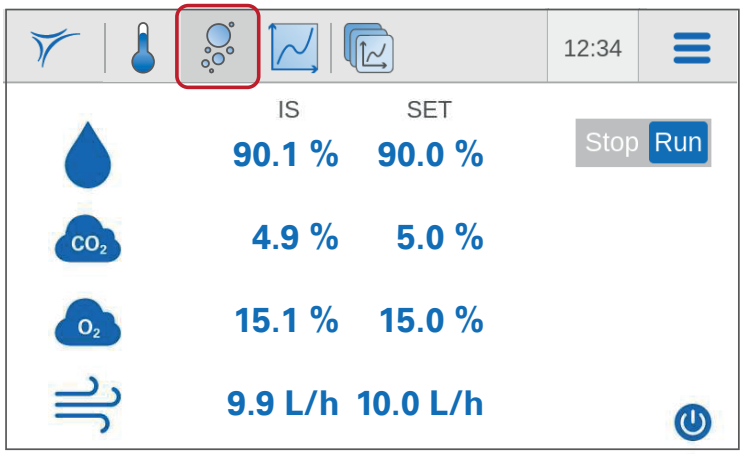


Figure 12: Gas incubation tab of the Touch Display.

The “home button”, the ibidi cell located in the upper left corner, always guides the user back to the first controller recognized by the Touch Display, which can be either the Temperature or the Gas Incubation Tab.

The “IS” value displays the actual and measured value for a given parameter from the respective controller, while the “SET” value denotes the target value of this control parameter.

Tap the “SET” value to open a number pad, allowing you to adjust the target value for the corresponding control parameter (Figure 13). Confirm the new settings by the check symbol.

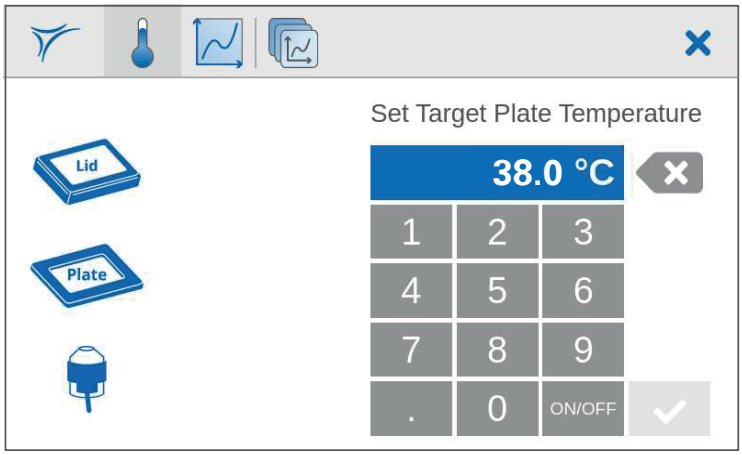


Figure 13: Number pad to control the “SET” value of each control parameter.

The “ON/OFF” button of the number pad inactivates/activates the respective channel (e.g., the heating of the Plate) (Figure 13).

The “Stop/Run” button in the Temperature Tab and Gas Incubation Tab inactivates/activates all channels of the respective controller (Figure 14).

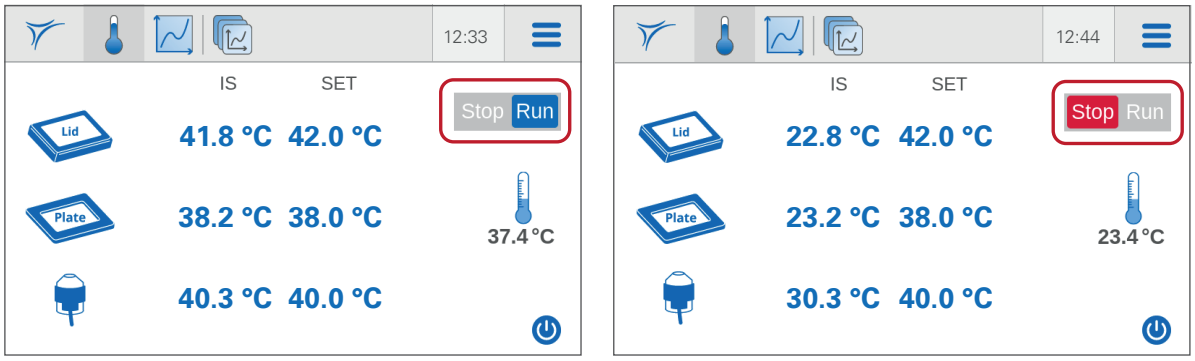


Figure 14: Run/Stop button to turn off/on all channels. Run (blue): All channels are on; Stop (red): All channels are off.

3.4 Dashboard View

The dashboard view is accessible via the dashboard tab in the header (Figure 15).

Figure 15: Access to dashboard view via the header.

The dashboard view allows to display “IS” control parameters on separate tiles, either as a value or as a chart (Figure 16). Up to 4 tiles can be displayed.

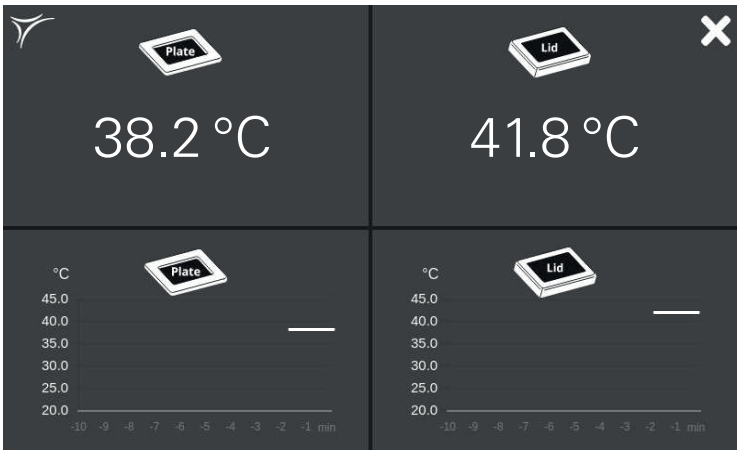


Figure 16: Dashboard view with exemplary composition of control parameters.

Each tile can be edited separately. Touching a tile opens a scroll-down menu for selection of the control parameter to be shown (Figure 17). The option “Empty / Expand” will remove or add a tile.

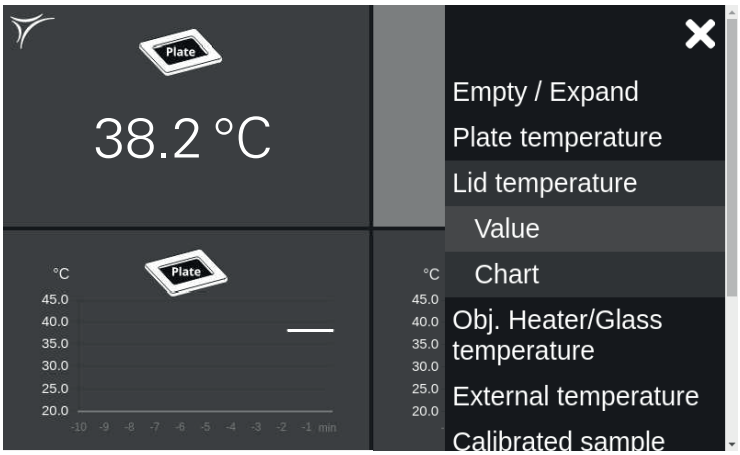


Figure 17: Edit view of the dashboard with list of selectable control parameters.

Confirm selections by the check symbol (Figure 18).

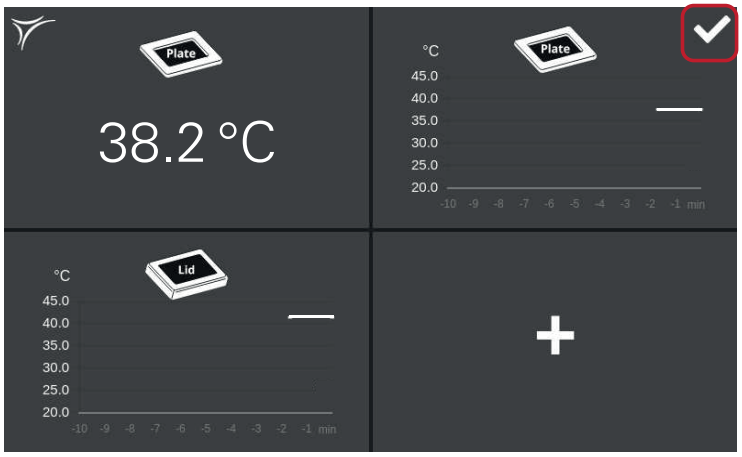


Figure 18: Edit view of the dashboard with ibidi home button and check symbol to confirm parameter selection.

Tap “X” to close the dashboard view or the ibidi logo in the upper left corner to return to the home screen.

3.5 Graph View

The graph view shows up to 7 days of automatically recorded data from both the ibidi Gas Mixer and the ibidi Temperature Controller (Figure 19).

The graph view is accessible via the graph tab in the header.

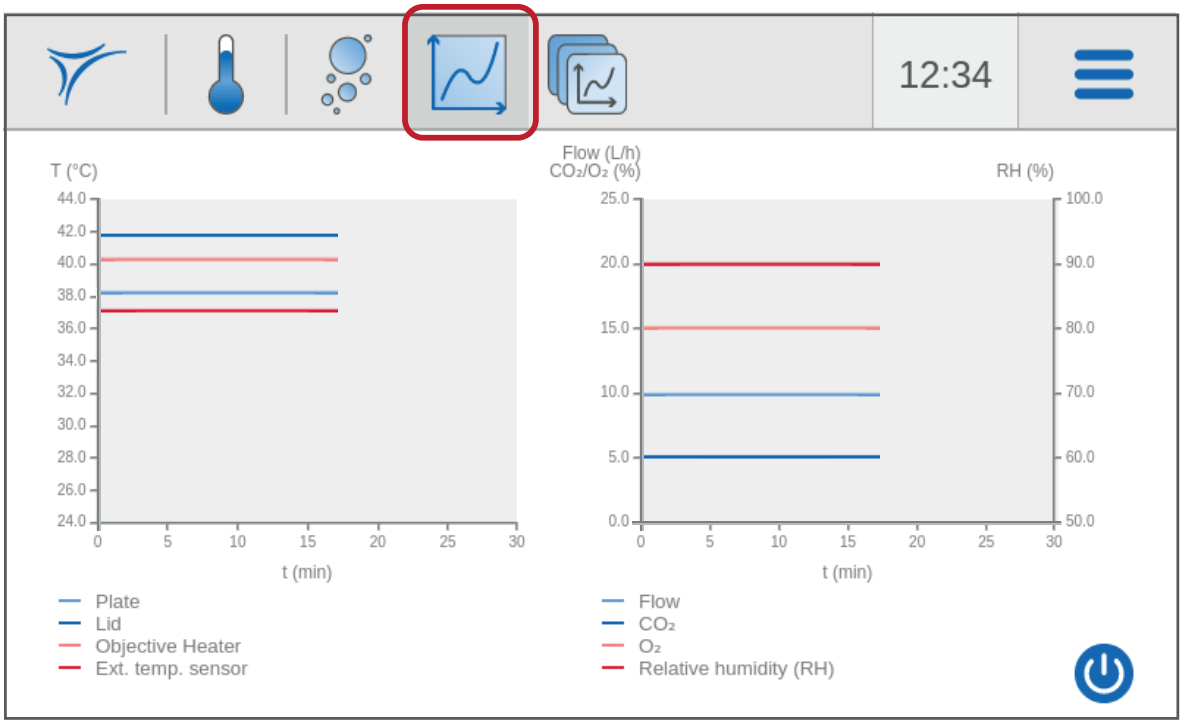


Figure 19: Graph view with exemplary data recorded for the different control parameters.

3.6 Menu

The menu is accessible via the menu symbol in the header (Figure 20).

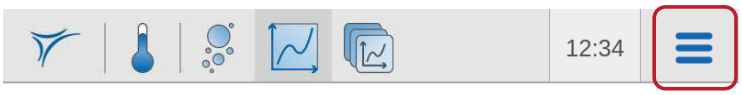


Figure 20: Access to the menu via the header.

The menu provides access to various settings of the Touch Display as illustrated in Figure 21.

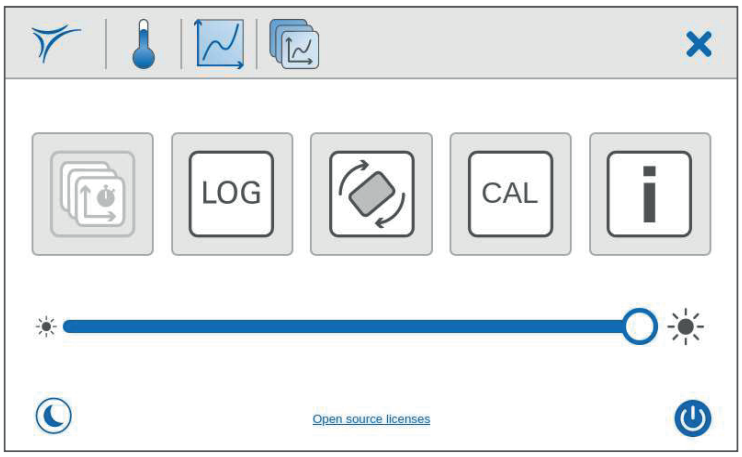


Figure 21: Menu with setting options (from left): 1. Dashboard timer, 2. Data logging settings, 3. Display rotation, 4. Calibration menu, 5. System information; Underneath: 6. Display brightness and night mode.

3.6.1 Dashboard Timer

This button activates or inactivates the timer to automatically return to the dashboard view after 20 seconds of inactivity (Figure 22). The timer is inactive per default settings.

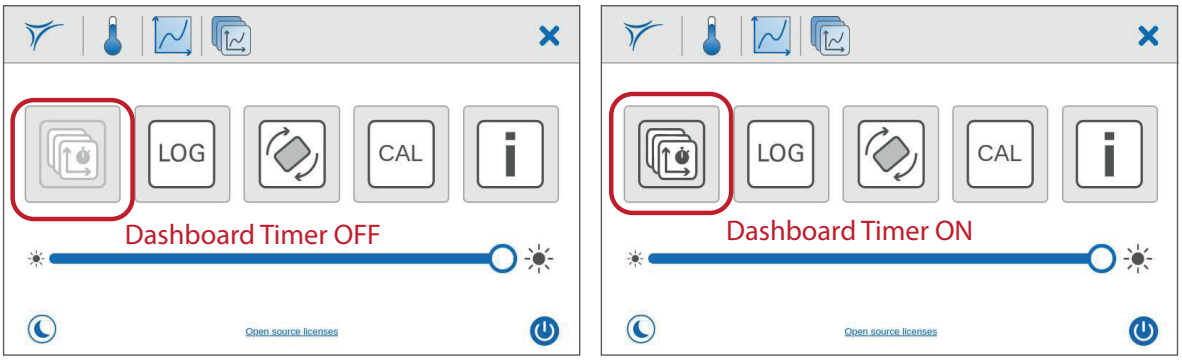


Figure 22: Dashboard timer.

3.6.2 Data Logging Settings

For the logging function to be active, please set the correct date and time (Figure 10). Insert a button battery as described in section 3.1.1, in order for the date and time settings to not reset across power cycles.

NOTE – Data logging is only active after the correct date and time settings have been entered. These will not reset as long as a battery is present in the device. When the Touch Display is switched on, it constantly logs data and saves all parameters used for each session with a temporal resolution of 30s.

The “LOG” button activates the data logging menu (Figure 23).

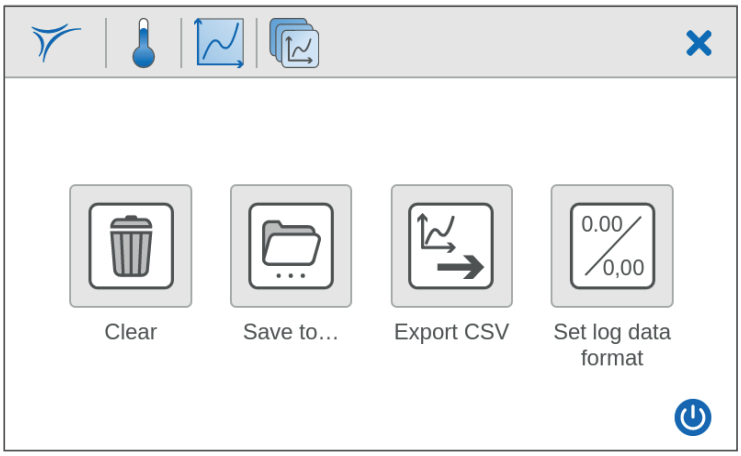


Figure 23: Data logging menu.

The “Clear” button allows the user to delete all internally stored experimental data. This action is recommended when the storage is nearing its maximum capacity, which will be indicated by a warning. Upon each power-up of the device, a notification automatically appears showing the remaining available logging time.

The “Save to ...” button allows the user to choose between saving current experiment data to the internal storage or a USB 3.0 data stick. Per default, data are stored to internal storage. Changing the data log location will not result in copying past data from the device onto a USB 3.0 data stick.

The “Export CSV” button activates the export of all data from internal storage to a USB 3.0 data stick.

The “Set log data format” button opens the menu for selecting the decimal delimiter (dot or comma). The change of the decimal delimiter is not applied to previously saved data.

A new recording session is started, when the Touch Display powers up, controllers are reconnected, the storage location is changed, the decimal delimiter is changed, or after logging data are exported to USB.

To plot log data, use Microsoft Excel or other software that imports tab-delimited text files.

3.6.3 Display Rotation

The Touch Display can be set in two orientations (Figure 1). To adjust the software display orientation accordingly, use the rotate button in the menu (Figure 24).

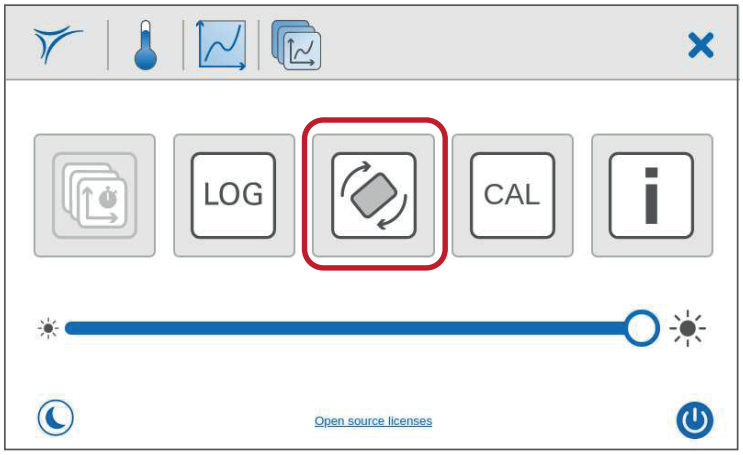


Figure 24: Rotate display.

3.6.4 Calibration Menu

Activate the calibration assistant with the “CAL” button (Figure 25). Please note that the calibration procedure has to be conducted manually, as described in the Instructions for the Stage Top Incubator. Enter the target sample temperature using the number pad.

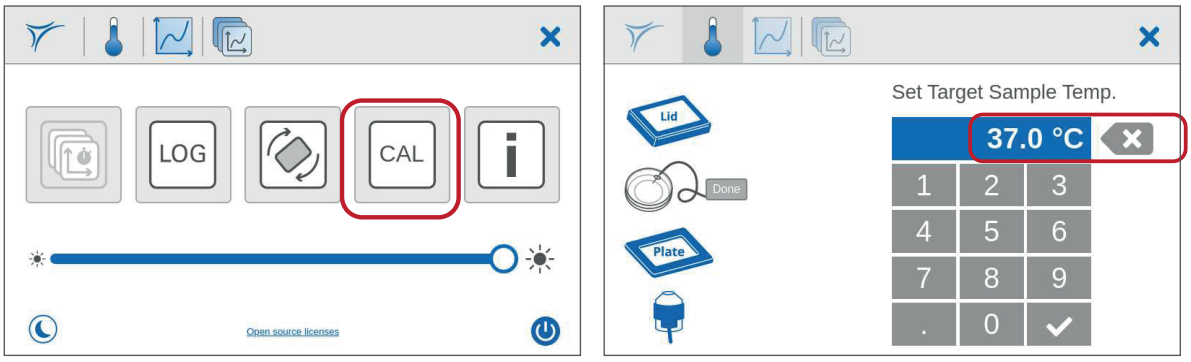


Figure 25: Start calibration assistant.

Upon confirming the sample Set temperature, an additional sample symbol is shown in the Temperature Tab (Figure 26). Set the temperature values according to the recommended initial “SET” values (see Instructions of Stage Top Incubator - Silver Line). Wait until the “IS” values match the “SET” values. If the target sample temperature is reached, the calibration can be confirmed by pressing the “DONE” button appearing next to the respective sample symbol.

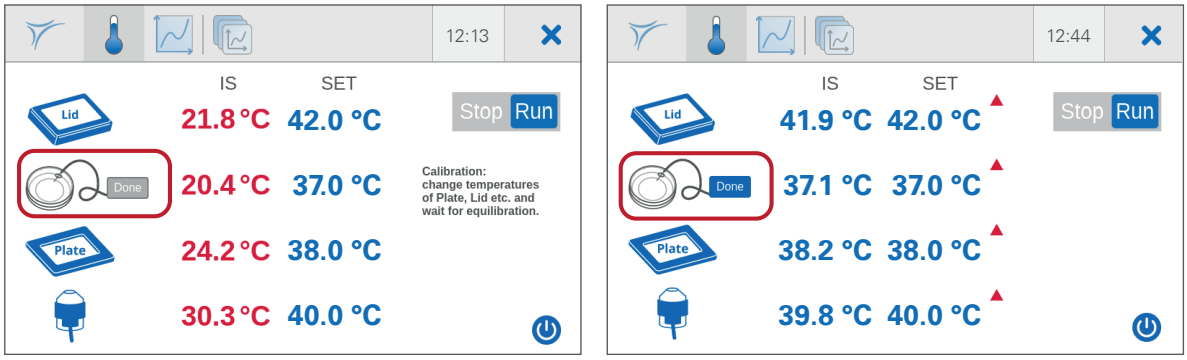


Figure 26: Perform calibration following the Stage Top Incubator Instructions, and confirm when the target sample temperature is reached.

Please recalibrate when your experimental conditions change.

3.6.5 System Information

The “i” button provides access to a general overview of the hardware and software versions as well as the serial numbers of all connected controllers and the Touch Display (Figure 27).

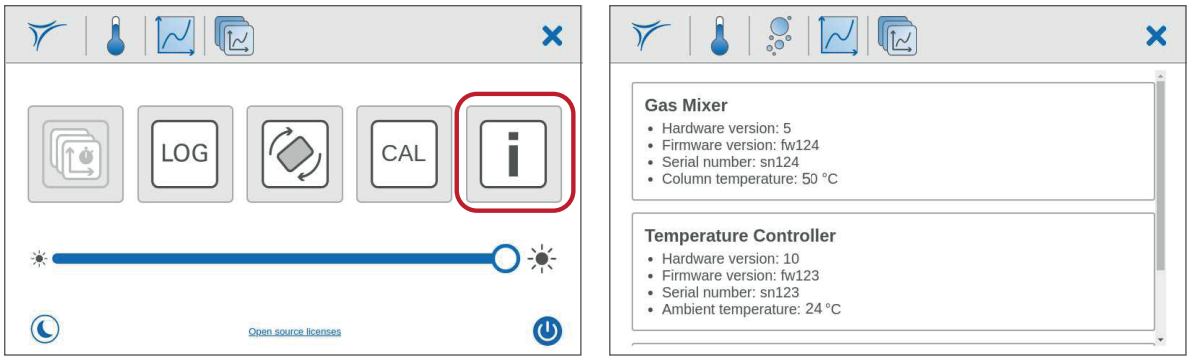


Figure 27: System information.

3.6.6 Display Brightness and Night Mode

Adjust the brightness of the display with the slider in the menu (Figure 28).

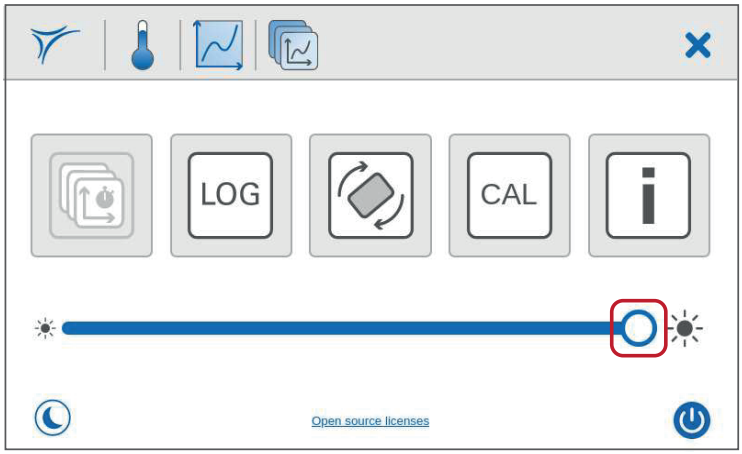


Figure 28: Set display brightness.

Switch to night mode via the moon symbol in the left corner of the menu (Figure 29). When in night mode, switch back to day mode via the sun symbol.

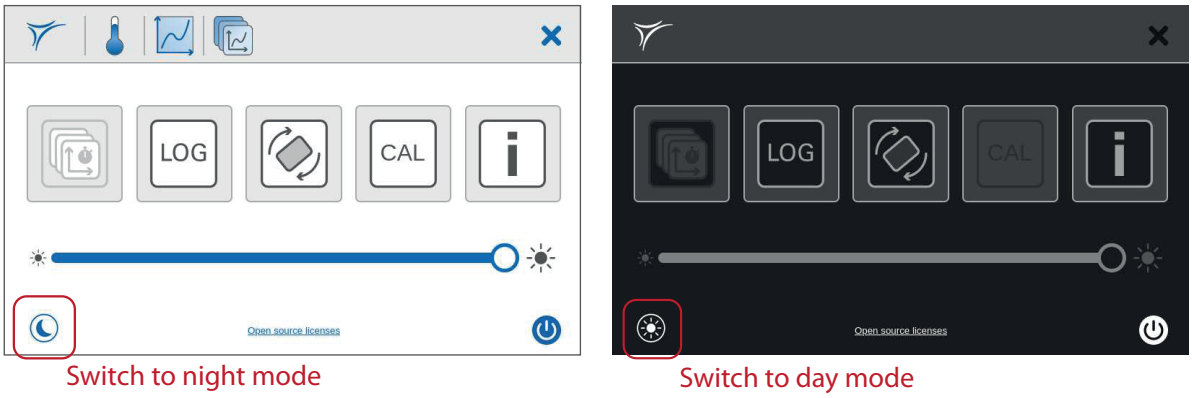


Figure 29: Switching between day mode (left) and night mode (right).

4 Maintenance

4.1 Disinfection and Cleaning

The outside housing of the Touch Display can be wiped with a dry or slightly dampened cloth.

CAUTION – The Touch Display housing is not waterproof! Avoid water or other solutions from entering the housing and the battery compartment.

If disinfection is necessary, we recommend using a cloth only slightly dampened with isopropanol (70%) or ethanol (70%) to wipe off the surface of the Touch Display.

Fingerprints on the touchscreen can be removed using lens/eyeglass cleaning wipes.

4.2 Software Updates

For software updates check the ibidi homepage.

Save the newest version of the IncuControlTouch Software to an USB drive and insert into the USB slot of the Touch Display.

Access the info menu and upload the newest version available, which is automatically detected from the USB drive.

Prohibitions on the use of ibidi software:

The following actions are prohibited:

- Copying software for other than backup purposes
- Transferring or licensing of the right to use software to a third party
- Disclosure of confidential information regarding software
- Modification of software

5 Troubleshooting

5.1 Incorrect Date and Time of Logged Data

The date and time of logged data are saved according to the internal clock of the Touch Display. These can be changed by accessing the Date and Time menu through the clock visible close to the top right corner of the screen.

5.2 Incubation Chamber Not Recognized

Only channels 1-3 of the ibidi Temperature Controller – Silver Line can be recognized by the Touch Display. Make sure that all peripheries of your system (Incubation Chambers, Objective Heater) are only connected to channels 1-3 of the Temperature Control Unit.

5.3 Operation of the Touch Display Without a Battery

The button battery enables correct logging of experimental data through the Touch Display over multiple power cycles of the device. Without a battery present, the correct date and time need to be set every time the Touch Display is powered up through the Date and Time menu, accessible by the top right corner of the screen indicated by a warning sign icon (Figure 10). Without setting the date and time, saving any files both internally to the device memory and externally to a USB 3.0 data stick is disabled. In the case of a lack of the battery and after the battery in use has drained, a warning message will be displayed (Figure 9). It is still possible to use the Touch Display to control and monitor all heating and gas flow parameters. All functionalities of the device except for saving of the date and time settings remain unaffected.

5.4 Other Errors

Correct function of the Touch Display is only possible if all components of the system are connected appropriately. Please double check your connection with the help of the Section 3.1.2.

If your problems persist, please contact ibidi at techsupport@ibidi.com.

6 Appendix

6.1 Symbols

Symbol	Definition	Details in Section:
	Home Button	3.3
	Temperature Controller	3.3
	Gas Mixer	3.3
	Dashboard	3.4
	Graph	3.5
	Menu	3.6
	On/Off	3.2
	Heated Plate	3.3
	Heated Lid	3.3
	Heated Glass	3.3
	Objective Heater	3.3
	External Temperature Sensor	3.3
	Oxygen	3.3
	Carbon Dioxide	3.3

Symbol	Definition	Details in Section:
	Flow	3.3
	Humidity	3.3
	Dashboard Timer	3.6.1
	Data Logging	3.6.2
	Rotate Screen	3.6.3
	Calibration	3.6.4
	Info	3.6.5
	Clear	3.6.2
	Save to	3.6.2
	Export CSV	3.6.2
	Save Log Data Format	3.6.2
	Night Mode	3.6.6
	Day Mode	3.6.6

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