

TECHNICAL MANUAL

Cellbox Ground CD



PRODUCED BY



An der Bahn 5
22844 Norderstedt
Germany

cellbox-solutions.com

Englische Planke 8
20459 Hamburg
Germany
T +49 40 226316410

office@cellbox-solutions.com

Cellbox is a registered trademark of Cellbox Solutions.

TECHNICAL MANUAL

Cellbox Ground CD
For Research Use Only (RUO)

DISCLAIMER

The manual is intended as a guideline and that Cellbox Solution GmbH shall in no event be held liable for any direct, or incidental damages that arises out of, or are related to the use of this manual.

Version 1.6, May 2021

TABLE OF CONTENT

1.	SAFEKEEPING OF THE MANUAL	5
2.	DEVICE DESCRIPTION	5
3.	LIST OF USED SYMBOLS	5
4.	INTENDED USE	5
4.1	Purpose	5
4.2	Restrictions on the Use of this Device	5
5.	SAFETY INSTRUCTIONS	6
6.	SCOPE OF DELIVERY, FEATURES AND DEVICE OVERVIEW	7
6.1	Scope of Delivery	7
6.2	Installation	7
6.3	Features	7
6.4	Device Overview	7
6.5	Display Elements	8
7.	OPERATION OF THE DEVICE	12
7.1	Charging the Device	12
7.2	Refilling CO ₂	13
7.3	Preparing the device for transport	14
7.4	Transporting the device	14
7.5	Safe Removal of live cells from the device	15
7.6	Cleaning the device	15
8.	LABELS ON THE DEVICE	15
8.1	Type plate	15
8.2	Labeling requirements for ground transport of the Cellbox	15
8.3	Packaging of biological materials	17
9.	ENVIRONMENTAL CONDITIONS FOR THE USE OF THE DEVICE	17
10.	STORAGE AND DISPOSAL	17
10.1	Storage	17
10.2	Disposal	17
11	TECHNICAL SPECIFICATIONS	17
12	MAINANANCE & WARRANTY	17

1. SAFEKEEPING OF THE MANUAL

The technical manual belongs to the Cellbox Ground CD and can be downloaded at www.cellbox-solutions.com/downloads. This ensures that persons operating the device can refer to the content of the manual as required.



The latest version of the technical manual can be opened by scanning the code on the type plate of the Cellbox or below:



2. DEVICE DESCRIPTION

The Cellbox is an electronic device developed by Cellbox Solutions GmbH for the safe and documented transport of living cells. The living cells, which can be transported in various cell culture vessels, are enclosed within the incubation chamber of a robust transport trunk. This creates a controlled environment wherein the physical parameters, such as the temperature and CO₂ concentration (to maintain the pH value of the medium buffer system) can be defined and stably maintained for a period of at least 24 hours without an external power source.

In order to achieve the optimal conditions for the transport of living cells, the Cellbox is able to control the ambient temperature around the cell culture vessels with precision. This function is further supported by the continuous circulation of air around the cell culture vessels, resulting in an even temperature distribution. The device also maintains a constant internal CO₂ concentration by automatically dispensing pure gaseous CO₂. This sustains the vitality of the in vitro cell cultures by providing a source of environmental CO₂ that stabilizes the pH. To ensure that an adequate supply of gaseous CO₂ is available for the entire period of transport, the device is equipped with a disposable CO₂ cartridge. Each disposable cartridge can maintain a 5% CO₂ environment for up to 72 hours.

The Cellbox can be operated from its built-in rechargeable Lithium-Ion Battery packs, an external power supply or even a car power adapter (see chapter 6.1). This provides the user with various options to ensure an uninterrupted power supply during transport. Sensors within the transportation compartment of the device log data of the conditions that the cells (living cargo) experience during transport. These data logs can easily be transferred to a mobile device using Bluetooth connectivity to the Cellbox App.

3. LIST OF USED SYMBOLS

Symbols used on Cellbox	
	Direct Current
	Read the manual
	This product is subject to the European Community Directive 2002/96/EG on waste electrical and electronic equipment (WEEE).
Symbols used on the Technical Manual	
	Additional information for the user
	Warning: Warning of situations that may result in personal injury or property damage
	Critical Warning: Prohibition of misuse that may result in personal injury or property damage

4. INTENDED USE

4.1 Purpose

This device is intended to serve as a protective environment that can sustain living cells, in various cell culture vessels, for a defined period of time, with the purpose of transport. In this context transport can refer to carrying the device or moving the device with the aid of a vehicle. When in operation the device can be configured to automatically maintain a set internal temperature and CO₂ concentration.

Power can be supplied to the device by means of an external power supply or in a portable manner from the internal battery packs.

The following cell culture vessels are compatible with the Cellbox:

- Multiwell-plates with 6, 12, 24, 48, 96 and 384 wells
- Multiwell-plates with standard ANSI/SBS footprint.
- Various chip formats
- Various cell culture bags
- Various cell culture flasks

4.2 Restrictions on the Use of this Device



It is strictly forbidden to transport a device in operation by aircraft.



This device is intended for Research Use Only (RUO).

It is strictly forbidden to use the device for the transport of infectious substances as classified within Class 6.2 of the ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road, applicable as from 01.01.2015).

Use of the device for any purpose other than the intended purpose described in section 3 is classified as misuse and can result in danger or damage.

The device may not be used for the transport of materials and substances that could produce toxic vapors or explosive fumes at the set temperature. Furthermore, materials and substances that pose a risk of exploding, bursting or igniting may not be transported in this device. If any doubt arises about the composition of the materials or substances to be transported, they must not be loaded in the device.

Potentially explosive gas-air mixtures may not be formed in the transportation compartment, nor may the device be operated in their immediate vicinity.

5. SAFETY INSTRUCTIONS



The device may only be operated in a good working order. When the user identifies any irregularities, disturbances or damage before or during the operation of the device, it should immediately be decommissioned. After decommissioning the device, the user should contact the manufacturer.



The device may not be rebuilt, modified or altered in any way without the authorization of the manufacturer. In the event of any unauthorized modification or alteration, the declaration of conformity is declared invalid and the device must be decommissioned.



During the transport of unsuitable goods, the possibility exists that toxic vapors or explosive fumes may be formed. This may cause the device to explode and result in serious injury or poisoning. The device is only intended for the transport of goods that do not form any toxic vapors or explosive fumes when heated (also see section 3. Intended Use).



The device must not be sprayed with or submerged in water. As the device is only resistant to low quantities of dripping water, larger quantities of water could reach the internal electronics and cause damage.



As a result of partial disassembly or damage to the casing of the trunk, electrical wires could be exposed and pose a risk of electric shock to the user. Repairs and maintenance of the electric components must only be performed by the manufacturer.



The use of the device in potentially explosive areas (containing flammable substances, gases, fumes or mixtures of gas and air) is strictly forbidden. The device does not have any measure of explosion protection.

6. SCOPE OF DELIVERY, FEATURES AND DEVICE OVERVIEW

6.1 Scope of Delivery

Besides the Cellbox Ground CD the following items are included in the scope of delivery:


- 1 multi-well holder
- 3 spacers for multi-well holder
- Power adapter for operation of the device or for charging the battery packs
- Car adapter
- Technical Manual (Online)
- Three spare disposable CO₂ cartridges
- Power plugs with wall socket compatibility for the EU, Japan, UK, USA, Switzerland and Australia.




6.2 Installation

Place the polystyrene carton overpack for best ergonomics onto a clean floor. Open the carton as well as the isolating polystyrene lid. Pull the lid handle and lift the Cellbox out of its isolating overpack with care and place on to an even and clean surface. Remove the protective plastic bag and discard it.

Operate the device as described in Chapter 7.

 Do not use the Cellbox inside of the plastic bag! Please make sure that the plastic bag is also not placed into the bottom of the polystyrene housing to avoid CO₂ build up by blocking the integrated CO₂ overflow tube.

 **The Cellbox Ground CD is a heavy load. Lifting and carrying loads for many years can lead to serious damage to the musculoskeletal system and especially to the intervertebral discs. In general, therefore, always use a carrying or pulling aid if possible or carry the Cellbox preferably together with another person.**

6.3 Features

The Cellbox Ground CD has the following features:

- Protective environment for the temporary storage and transport of cells and culture media within a variety of cell culture vessels.
- Mechanical protection of goods when the device is carried or transported in a vehicle, train or ship or during stationary application.
- Simple-to-use touch screen interface for the operation of the device.
- Incubation range 3°C above ambient temperature and programmable between 28°C and 38°C.
- Programmable CO₂ concentration between 0% and 18%.
- Display that is updated with the internal CO₂ concentration and temperature in real-time.
- The Cellbox logs the history of the internal temperature, CO₂ concentration, remaining CO₂ in the disposable CO₂ cartridge as well as its set values for temperature and CO₂.
- Bluetooth connection for communication with smart devices.
- Cellbox App for data export and graphical presentation of logged environmental conditions.

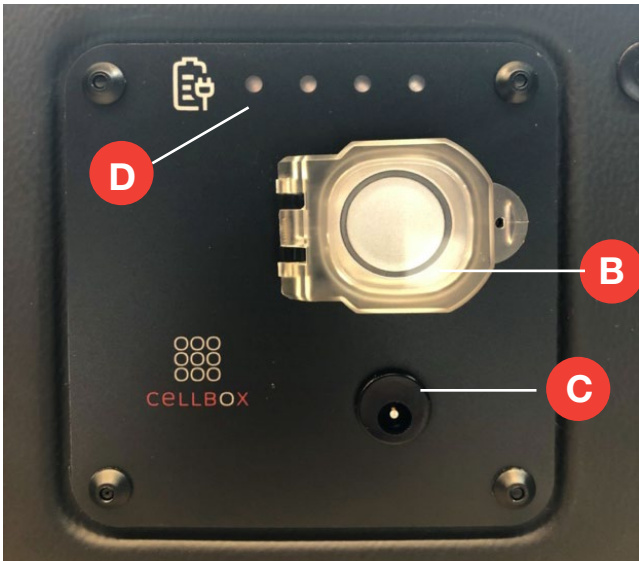
6.4 Device Overview

The outer case of the Cellbox is a robust transport box made to withstand mechanical impact. It is therefore the ideal device for the transport of biological material by road, sea and rail.

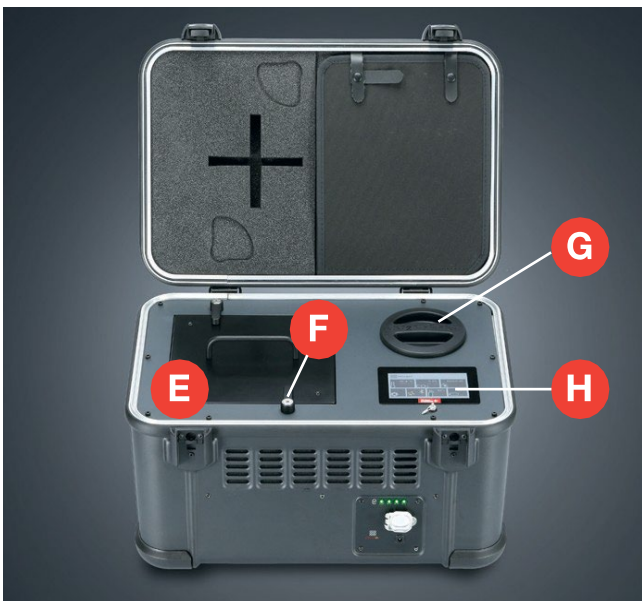
The following device elements have been highlighted for the user:



A Locking mechanism



- B** Main power switch with protective lid and LED for device status
- C** Connection/socket for external power supply
- D** 4 LEDs for indication of the battery level



- E** Incubation chamber lid
- F** Lid locking mechanism
- G** Chamber for CO₂ cartridge with lid
- H** Display

6.5 Display Elements

The touch screen of the Cellbox Ground CD displays the conditions inside the incubation chamber and allows the user to adjust temperature, CO₂ concentration and reset the elapsed time and remaining CO₂.



The Cellbox Homescreen becomes visible when the device is switched on. The following is displayed:

- Current temperature in the incubation chamber in °C
- Preset temperature in incubation chamber (user-defined) in °C
- Current CO₂ level in the incubation chamber in %
- Preset CO₂ level (user-defined) in %
- Elapsed time in hh:mm:ss
- Bluetooth toggle on/off
- CO₂ cartridge level in %
- Battery management menu and level in %
- Service menu

Tap the respective field to enter its sub menu.

Setup – Temperature



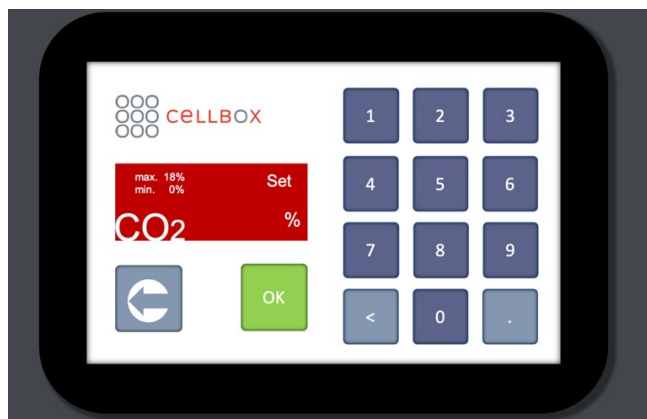
Use the keypad to define the preset temperature in the incubation chamber. A value in the range of 28.0°C to 38.0°C is possible and can be defined in increments of 0.1°C. Use the "<" key to correct your entry. Confirm your entry with "OK" (green field). The user is returned to the Homescreen.

Tap "C" to return to the Homescreen without modifying the preset value.

If a value lower than 28.0°C or higher than 38.0°C is entered and confirmed, the system will automatically default to the closest minimum or maximum temperature.

i It is strongly recommended that the initial heating of the incubation chamber is performed with the Cellbox connected to a wall power socket to reserve the fully charged batteries for transport. Depending on the ambient temperature the initial heating stage can take up to 45 minutes.

Setup – CO₂ Concentration



Use the keypad to define a preset CO₂ concentration between 0.0% and 18% in the incubation chamber. The target CO₂ concentration can be defined in increments of 0.1%. Use the “<” key to correct your entry. Confirm an entry with “OK” (green field).

The user will be returned to the Homescreen. Tap “⏪” to return to the Homescreen without modifying the preset value.

If a CO₂ concentration higher than 18% is entered and confirmed, the system will automatically default to the maximum value.

i The initial CO₂ equilibration may take up to 15 minutes.

Setup – CO₂ Cartridge Level



Reset the cartridge level by tapping the green button to

confirm that the disposable CO₂ cartridge has been replaced.

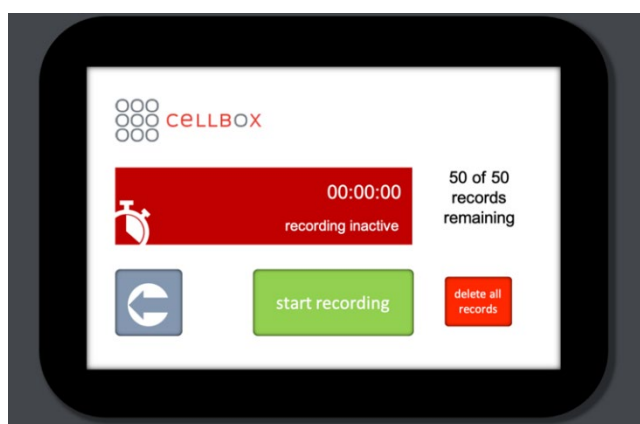
Tap “⏪” to return to the Homescreen.

i The remaining cartridge level is being calculated internally by counting the opening intervals and opening times of the CO₂ inlet valve.

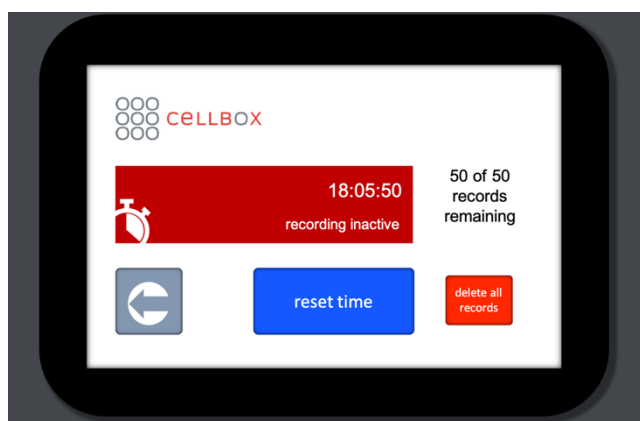
! It is recommended to replace the CO₂ cartridge before each transport.

Setup – Data Logging

The Data logging screen displays the elapsed time, in hh:mm:ss, since the data logging function has been activated. To start a log, tap “start recording”, to stop a running log, tap “stop recording”.



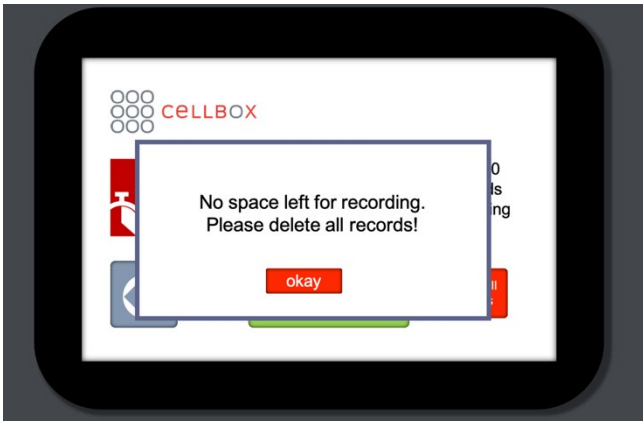
After tapping “stop recording” the elapsed period of time remains visible. The counter can be reset by tapping on “reset time”.



The Cellbox can record up to 50 logs. The remaining log counter is displayed in the upper right corner.

i Once 50 log files have been recorded, the Cellbox will be unable to record any further logs and the user will be notified by a pop-up window.

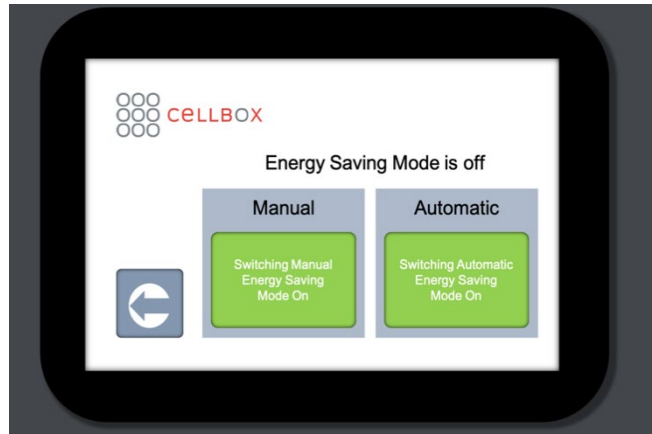
Setup - Energy Saving Mode



⚠ To delete all records, tap the “delete all records” button. A pop-up window will be displayed in which the user needs to confirm their command by tapping the “okay” button. Take special note that all previously recorded data logs will be irrevocably deleted by pressing “okay”. Tap “cancel” to abort deleting the records.



Tap “⏪” to return to the Homescreen.



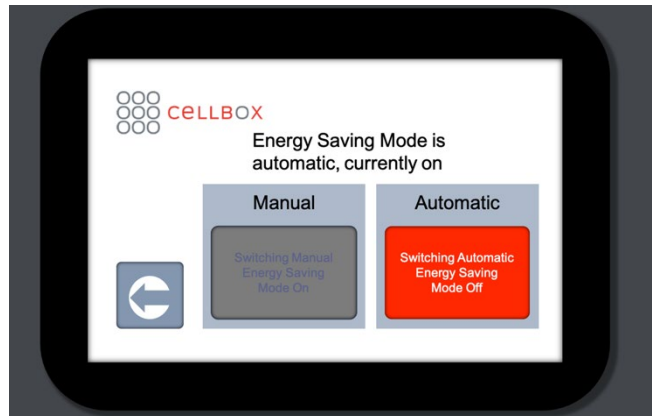
The battery management menu contains the settings for Energy Saving Mode. This feature is necessary for any transport exceeding 8 hours or when the device is left unattended for a longer period of time. When the Cellbox is in Energy Saving Mode, the cooling fans for the Peltier elements are switched off which extends the battery run-time of the device.

There are two options to choose from; Manual Mode or Automatic Mode.



If Energy Saving Mode is active, either by manual or automatic control, the fans for cooling the Peltier elements are switched off, which also results in a lower noise level.

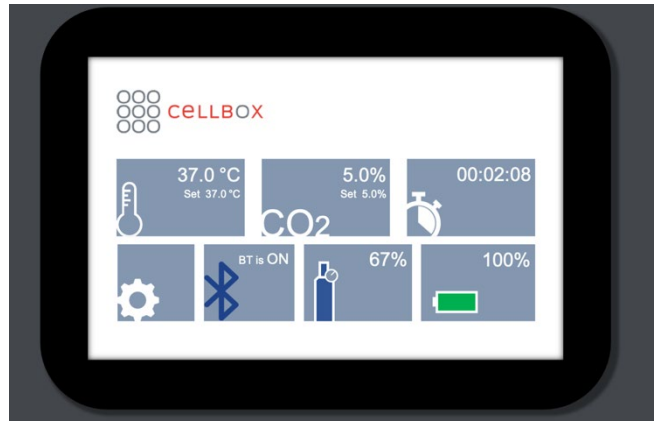
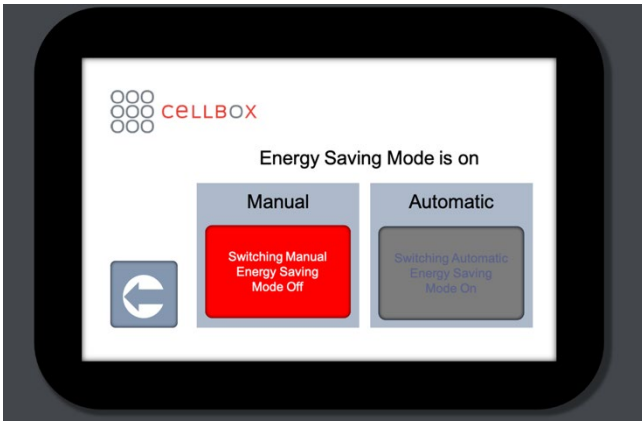
The actual status of the Energy Saving Mode is displayed at the top of the Battery management menu.



Automatic Mode

If Energy Saving Mode is set to “Auto”, the Cellbox will automatically enter Energy Saving Mode when the temperature difference between the set temperature and actual temperature is smaller than 1°C.

Activating the Automatic Energy Saving Mode allows the Cellbox to optimize battery consumption by entering Energy Saving Mode when required.



Manual Mode

If Energy Saving Mode is set to Manual, the user needs to physically activate and deactivate the Energy Saving Mode by tapping on the respective button.

It is recommended to only activate the Energy Saving Mode when the device is already pre-heated and the Cellbox is about to be transported. If a Cellbox is left to heat up the incubation chamber while Energy Saving mode is activated, it will drastically increase the time required to equilibrate to the user defined temperature.



Cellbox Solutions recommends activating Automatic Energy Saving Mode for all transport applications.


Follow the on-screen instructions in the App to access the data logs.

To learn more about the function of the Cellbox App, please refer to our video tutorials and separate App Instruction Manual accessible at:
www.cellbox-solutions.com &
www.cellbox-solutions.com/downloads



Only pair the Cellbox and the smart device via the Cellbox App and not by the smart device internal pairing function.



Tap “” to return to the Home screen which will indicate when Energy Saving Mode is turned on.

Data Export

To export data, install the Cellbox App on your smart device. Activate Bluetooth on your smart device and open the Cellbox App.

Tap the Bluetooth button on the Cellbox Homescreen to activate Bluetooth. If active, the Bluetooth symbol becomes blue. The Cellbox will attempt to pair with your smart device via the Cellbox App. Once prompted, enter the provided pin code to complete the pairing procedure:

Service



Tapping the gear icon will open the service window where further device information can be found. Information displayed includes the current Firmware Revision, BT Modul Revision and the Battery-Box Revision of the device. The service menu also shows the actual time, both in UTC and local time, as well as contact details of your Cellbox Service team.

Tap the UTC time and set your desired local time by using the keypad. Use the "<" key to correct your entry, negative numbers can be added by pressing "-" after the number. Confirm the entry with "OK" (green field).



The Cellbox service window will now display the local time as well.



Tap "⌂" to return to the Homescreen.

7. OPERATION OF THE DEVICE

7.1 Charging the Device

The Cellbox is fitted with 4 Lithium-Ion battery packs that each have a capacity of 99.4Wh. These battery packs provide an uninterrupted power source for the operation of the device during transport for more than 24 hours.



Use only the supplied power supply unit! (MeanWell GST120A20-P1M, 20 VDC, 6 A, 120 W Max)



It is recommended to connect the Cellbox to a power supply when heating up the device for transport. This ensures that all battery packs are fully charged before the transport



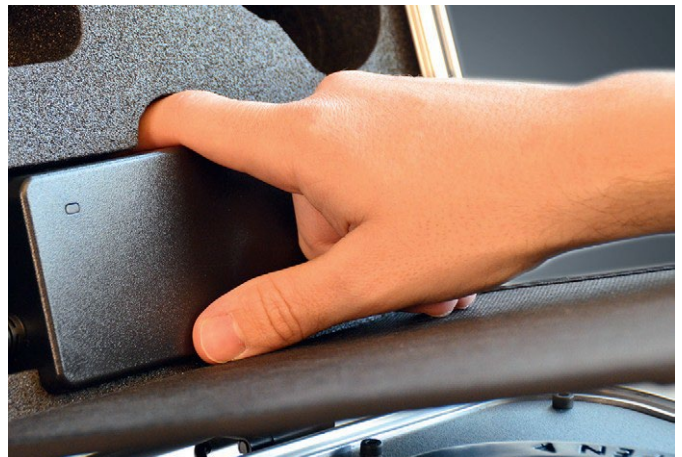
10 hours will be required to fully charge the batteries.



To charge the device during transportation, ensure that the car adapter is set to 20V by the indicator switch.



The power cable, power adapter and car adapter can be found in the lid compartment.



Securely plug the power cable into the socket below the power button.



One of the four LEDs on the front panel of the device will start to blink after connecting a partially or fully discharged Cellbox to an external power source. Each of the LEDs represents a 25% charge value. A continuously blinking LED indicates that the Cellbox is being charged. When all four of the LEDs are steadily lit in green, the device is fully charged. It is possible to charge the device both when in operation or switched off.

! The white LED ring around the power button increases in brightness when an external power source is connected.

- 4 LEDs are steadily lit - 100% charged
- 3 LEDs are steadily lit - 75% charged
- 2 LEDs are steadily lit - 50% charged
- 1 LED is steadily lit - 25% charged

During discharge of the battery packs each LED light will shortly blink before switching off. When only one light is blinking, the device needs to be connected to a power supply as soon as possible to ensure that incubation conditions are maintained.

i Please be aware that more time is required to fully charge the Cellbox when it is in operation. The available current is preferentially used to power the device, while the smart charging system only diverts a portion of the current to recharge the batteries.

7.2 Refilling CO₂

The Cellbox ground CD uses gaseous CO₂ to condition the internal environment for the transport of living cells. In this model of the Cellbox, gaseous CO₂ from a disposable cartridge is used. Up to three spare cartridges can be stored in the lid compartment. An electronically managed system ensures that the CO₂ is distributed accurately as required.

Refilling procedure

Open the Cellbox and take out a disposable CO₂ cartridge from the lid compartment.



Lift the CO₂ compartment lid to gain access to the cartridge thread. Start by aligning the cartridge with the thread and carefully screwing it clockwise. Once the cartridge has entered the thread, quickly tighten the cartridge securely.



! The cartridge needs to be tightened quickly to avoid excessive loss of CO₂ when punctured by the system.

! The cartridge needs to be securely tightened to reduce the risk of a leak. The system is now pressurized!

! Do not remove the disposable cartridge during operation. It serves as the gas reservoir for the incubation chamber.

! Removing the disposable cartridge may lead to a rapid release of remaining CO₂, which could cause a static charge as well as ice formation in and around the thread. Please wait for several minutes before reinstalling a new cartridge.

Replace the circular lid securely on top of the disposable cartridge.

Tap the CO₂ window in the Cellbox Homescreen and reset the CO₂ cartridge level, as described in section 5.4.


A disposable CO₂ cartridge can sustain a 5% CO₂ concentration in the incubation chamber for more than 72 hours.

If the incubation chamber is frequently opened or left open for long periods during operation, there is a risk that

the CO₂ from the cartridge may be depleted prematurely.

7.3 Preparing the device for transport

- Switch on the Cellbox.
- Verify the battery status and if necessary, charge the device (observe the status of the 4 LEDs on the front panel). Please keep in mind that 10 hours will be needed to fully charge the batteries.
- If necessary, replace the CO₂ cylinder before use as described in section 6.2.
- It is essential to provide the device with sufficient time to reach a stable internal temperature before being used for the transport of living cells. The lid of the incubation chamber has to be closed and latched down before the device is switched on. Approximately 30-45 minutes are required for the internal temperature to reach 37°C.
- The device can reach an internal CO₂ concentration of 5% within a few minutes of operation.

 **All preparations should be performed using an external power source to ensure that the battery packs remain fully charged for transport.**

7.4 Transporting the device

The lid of the main power switch should be securely closed before the device is transported. This prevents access to the main power switch, ensuring the device is not accidentally powered off during transport.

To protect the contents of the Cellbox, the device should only be transported in an upright position.

It is strongly recommended that the Cellbox, and more so the transport compartment, remains closed during transport. The incubation chamber should only be opened if absolutely necessary because this jeopardizes the internal environment and subsequently the cell viability.


If the possibility exists, the device should be connected to an external power source during transport. In this way the maximum transport period of 24 hours can be extended.



Open the carton overpack to access the polystyrene housing within.



Lift the polystyrene lid and place the Cellbox inside.

 **The polystyrene housing has been specially designed for effortlessly inserting and removing the Cellbox. Should the Cellbox not fit, do not force it, simply rotate the Cellbox until it slides into the polystyrene housing.**



7.5 Safe Removal of live cells from the device

- Unlatch the outer locks and open the Cellbox device lid.
- Unlatch the incubation chamber locks and remove the incubation lid.
- Remove the adapter containing the transport vessels and place it on the work bench.
- Remove the spacers when taking the vessels from the adapter.
- Use good sterile technique when handling biological material.

7.6 Cleaning the device

The device must be switched off and disconnected from the external power supply before any attempts at cleaning are made.

Incubation chamber: The incubation chamber is constructed from hard anodized aluminum. It can therefore be cleaned using a soft cloth and appropriate detergents (e.g. 70% ethanol).

Outer Surface: The outer surface of the device can be wiped clean with a dry cloth.

8. LABELS ON THE DEVICE

8.1 Type plate

Detailed information about each device can be found on the type plate located at the back of the Cellbox.



8.2 Labeling requirements for ground transport of the Cellbox

According to the guidelines of the ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road, applicable as from 01.01.2015), the Cellbox has to be labeled to indicate that its operation requires gaseous CO₂ for the conditioning of the internal environment as well as that the Cellbox is containing lithium-ion batteries.

Labels on Cardboard Overpack / Cellbox during Ground Transport with Gaseous CO₂

Road (ADR)	Cellbox Ground CD with gaseous CO ₂
<p>Labels on cardboard overpack</p> <p>Information in transport documents (optional)</p>	<div data-bbox="917 219 1211 490" data-label="Image"> </div> <p>UN 3481 label indicating the use of Lithium-Ion batteries.</p> <p>Please add Cellbox Solutions' phone number in the indicated field: +49 40 226316410.</p> <p>CO₂ label indicating the use of gaseous CO₂ as conditioner.</p> <p>Text on cardboard: UMVERPACKUNG / OVERPACK</p> <p>Lithium-ion batteries contained in equipment.</p>
<p>Indication on Cellbox (if transported with/without overpack)</p> <p>Information in transport documents (optional)</p>	<div data-bbox="917 1218 1211 1489" data-label="Image"> </div> <p>UN 3481 label indicating the use of Lithium-Ion batteries.</p> <p>Please add Cellbox Solutions' phone number in the indicated field: +49 40 226316410.</p> <p>CO₂ label indicating the use of gaseous CO₂ as conditioner.</p> <p>Lithium-ion batteries contained in equipment.</p>

8.3 Packaging of biological materials

Cellbox devices used to ship biological materials, need to be packaged according to Packing Instruction of the ADR.

Biological Substance shipments must comply with local, state, federal and international laws governing identification, classification, packaging and package markings (which may be in label form).

Cellbox recommends adhering to a three-layer packaging system, consisting of:

- a leak-proof primary receptacle,
- leak proof secondary packaging and absorbent material
- outer packaging of adequate strength.

The Cellbox provides a fourth sturdy outer layer packaging.

Affix the appropriate label(s) to the outer package, either on the surface of the Cellbox, or on the carton overpack.

Cellbox Solutions GmbH shall in no event be held liable for damages/unsuccesful transports resulting from inappropriate labeling.

Please consult your specialty logistics provider for final approval.

9. ENVIRONMENTAL CONDITIONS FOR THE USE OF THE DEVICE

The Cellbox may only be operated under the following environmental conditions:

- Environmental temperature range of 0°C to 40°C. Please take note that continuous operation at temperatures below 20°C and above 30°C will drastically affect the battery life.
- The device must be protected from being sprayed with water or submerged in water. Larger quantities of water could reach the internal electronics and cause damage.
- The operation of the device in an environment containing explosive substances, gases, fumes or mixtures of gas and air is strictly forbidden. The device does not have any measure of explosion protection.

When the Cellbox is powered from a wall socket and the battery packs are being charged, the device should only be used indoors with the following environmental conditions:

- Environmental temperature range of 0°C to +40°C
- Relative humidity max. 80% (no condensation)

10. STORAGE AND DISPOSAL

10.1 Storage

Storage of the device is possible in a dust-free and frost-free room. During storage the device should not be connected to an external power source.

10.2 Disposal

This product is subject to the European Community Directive 2002/96/EG on waste electrical and electronic equipment (WEEE). This device may not be disposed of along with general waste at public collection points. Please contact your distributor or manufacturer for the disposal of this device. Devices that are contaminated with infected, infectious or any other substances that pose a health hazard are excluded from being returned to the manufacturer or distributor.

11 TECHNICAL SPECIFICATIONS

- Dimensions of the Cellbox Ground CD 535 mm x 380 mm x 340 mm (21.0" x 15.0" x 13.4")
- Cellbox carton overpack dimensions: 670 mm x 490 mm x 470 mm (26.4" x 19.3" x 18.5")
- Dimensions of the transport compartment: 155 mm x 200 mm x 135 mm (6.10" x 7.87" x 5.31")
- Electrical supply of the power adapter: 100–240VAC, 50/60Hz, 1,4A
- Electrical supply of the Cellbox (only to be operated or charged using the provided power adapter): 20V DC, 5,0A, 120W max.
- Weight: 18 kg; 40 lbs

More information can be found on the Technical Datasheets

12 MAINTANANCE & WARRANTY

The maintenance interval for the Cellbox Ground CD as well as its warranty are 12 months. To ensure proper functionality of the device make sure to get your service on an annular bases and request your maintenance offering from Cellbox Solutions GmbH or their respective partners.

CLEANING INSTRUCTIONS

General Advice

1. Clean the Cellbox before every use.
2. Wear clean gloves for cleaning.
3. Use an appropriate detergent (e.g. 70% ethanol).
4. Avoid spray disinfection.

Immediate Measure

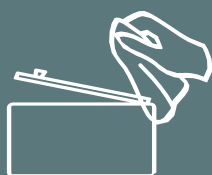


Please remove any spills **immediately**.

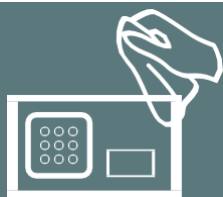
Regular Measure



The device must be **switched off and disconnected** from the external power supply before any attempts at cleaning are made.



The **outer surface** of the device can be wiped clean with a dry cloth.



The **incubation chamber** is constructed from hard anodized aluminum. It can therefore be cleaned using a soft cloth and appropriate detergents.

EC DECLARATION OF CONFORMITY

Hereby, Cellbox Solutions GmbH declares that the radio equipment type

Cellbox Ground CD

is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://cellbox-solutions.com/downloads>

Norderstedt, May 2021,



.....
Cellbox Solutions GmbH
Wolfgang Kintzel
CEO



OOO
OOO CELLBOX
OOO SOLUTIONS GMBH

An der Bahn 5
22844 Norderstedt | Germany

Englische Planke 8
20459 Hamburg | Germany
T +49 40 226316410
office@cellbox-solutions.com
cellbox-solutions.com