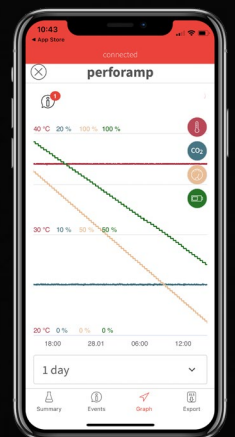


# APP MANUAL iOS

## Cellbox 2.0 – Live Cell Shipper



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# APP MANUAL

Cellbox 2.0

21 CFR Part 11 Data Security Software License  
Research Software License

## 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 1.2, February 2023, Authors: Willem Mueller, Robin Sieg

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## 1 SAFEKEEPING OF THE MANUAL

The app manual refers to the CELLBOX 2.0 – LIVE CELL SHIPPER App, referred to as “App” within this manual, which is required to retrieve logged data from Cellbox 2.0 devices. For further information about operating the Cellbox 2.0 please refer to the Cellbox 2.0 Technical Manual.

The latest version of the Cellbox 2.0 Technical Manual can be accessed by scanning the QR code on the type plate of the Cellbox 2.0 or shown below:



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

The “Cellbox 2.0 – Live Cell Shipper” App is available within the Apple App Store or under the following QR Code:



<https://apps.apple.com/us/app/cellbox-2-0-live-cell-shipper/id1608875260>

## 2 APP DESCRIPTION

The CELLBOX 2.0 – LIVE CELL SHIPPER App is an accessory to access the data content of the Cellbox 2.0. It offers the user the possibility to get access to the recorded transport data and/or the audit trail as well as to visualize and transfer the data. The App automatically detects whether the connected Cellbox 2.0 is equipped with a 21 CFR Part 11 Data Security Software License or a Research Software License.

## 3 INTENDED USE

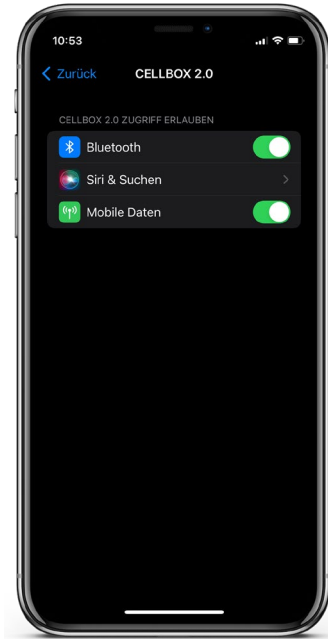
This App is intended to use with the Cellbox 2.0. It complements the functionality of the Cellbox 2.0. Without this App it is only possible to get access to the recorded data of the Cellbox 2.0 through a basic graph plotting function.

This app cannot be used with the Cellbox 1.0. For accessing data on the Cellbox 1.0, please refer the App manual for Cellbox CD / CDI which can be found at <https://cellbox-solutions.com/downloads>.

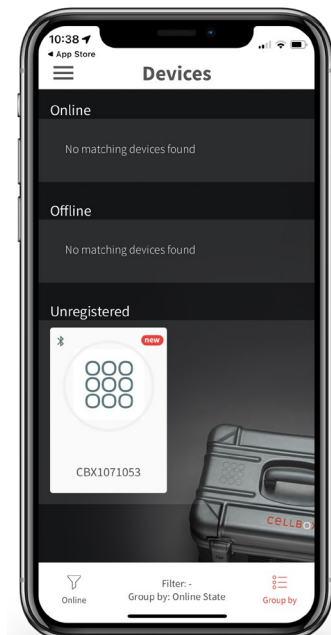
## 4 OPERATION OF THE APP

### 4.1 Connection to a Cellbox 2.0 and Login

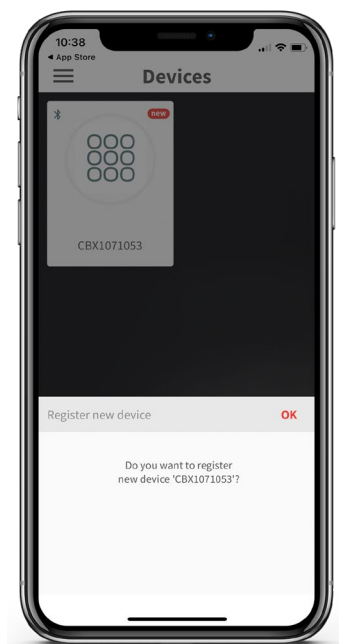
Ensure Bluetooth is activated on your mobile device and the App is allowed to use Bluetooth. If you are unsure check the settings of your iOS device under *App* → *App permissions*.



Upon starting the App for the first time after installation, a connection screen will be shown. Activate the Bluetooth module of the Cellbox 2.0 as described in the Technical Manual and ensure that the used mobile device is in vicinity of the Cellbox 2.0 (best connectivity is given when the mobile device is placed next to the Cellbox 2.0 display). When the Cellbox 2.0 is identified by your mobile device's Bluetooth, it will be listed on the connection screen in the *Unregistered* group on the display as shown in the following picture. Once registered as described in the following steps, the device will move into the *Online* group.



The white tile labelled with the serial number of the Cellbox 2.0 provides you access to start a connection to the respective Cellbox 2.0 device. Tap on this tile and confirm with "OK" to register the device.

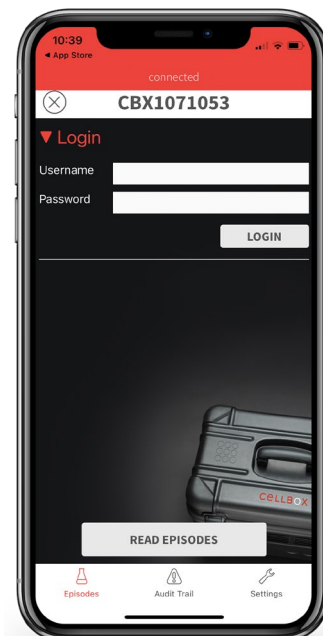


## 4.2 Episodes Menu

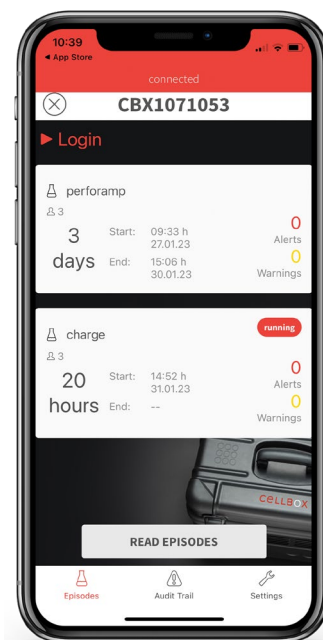
After successfully connecting to the Cellbox 2.0 the top bar indicated that the device has been "connected".



In case your Cellbox 2.0 is equipped with the CBS Research and Development Software License tap the "READ EPISODE" button and skip the subsequent login procedure.

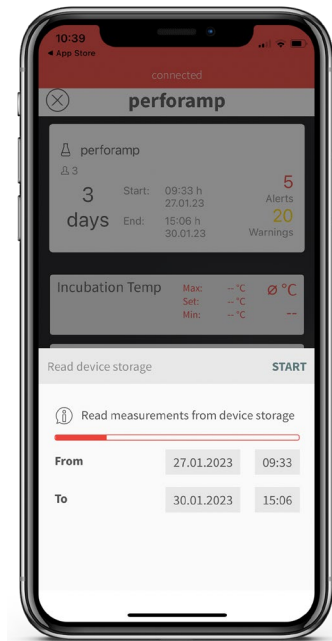
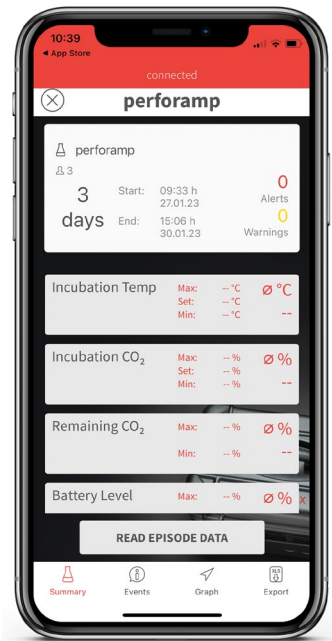


In case your Cellbox 2.0 is equipped with the CBS 21 CFR Part 11 Data Security Software License expand the *Login menu* by tapping on it and log into the Cellbox 2.0 App with your user login data that have been set on the Cellbox 2.0 device upfront by the administrator user (Admin) that is also used to log onto the Cellbox 2.0 devices using its touch display. This allows you to gather access to your public and your private episodes. To show the episodes press the "READ EPISODES" button.



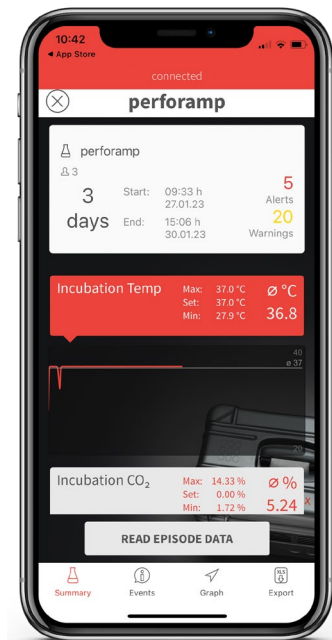
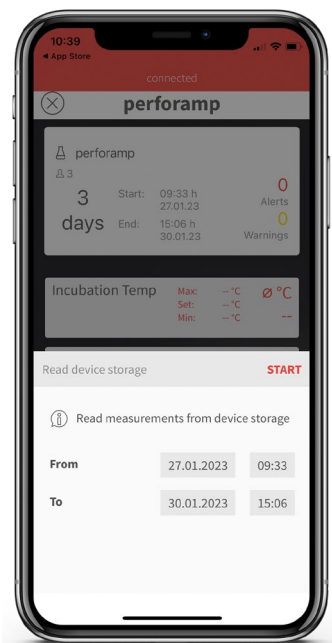
All accessible public episodes as well as your private ones (if you are logged in) are now listed in chronological order with their name, time length, start and end time as well as number of recorded alerts and warnings.

Tap on an episode to access its data and gather further information.



To download the logged episode data, synchronize the episode by pressing the “READ EPISODE DATA” button. A pop-up will appear. Press the “START” button on the upper right corner of the pop-up.

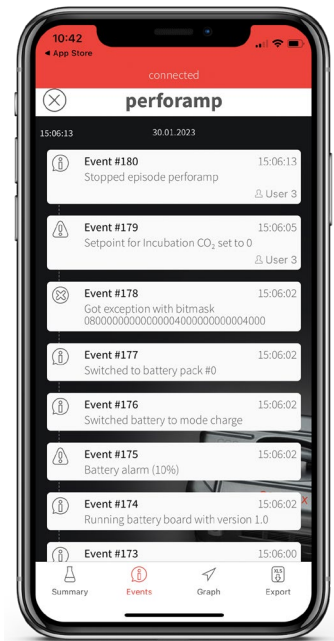
After successfully synchronizing the data for the selected episode, you now have access to the episode’s full information. You can tap the smaller white tiles labelled with “Incubation Temp”, “Incubation CO<sub>2</sub>”, “Remaining CO<sub>2</sub>”, “Battery Level” to expand a small graphical preview of the respective episode data.



After a while, - the duration depends on the length of the episode, a bar appears showing the progress of data synchronization. Do not remove the mobile device from the vicinity of the Cellbox 2.0 and avoid rotating the display to avoid losing the connection while synchronizing. Also prevent that the mobile device enters any screen saving or display lock mode to ensure that the data set is complete.

To fold it back just tap on the respective tile again or press another tile.

The episode’s submenu also provides access to a list of the logged events, a full graphical overview of the episode, and the data export function. Events are collected as part of an independent storage file, called the Audit Trail. To enter the respective submenus press the buttons on the navigation bar on the bottom. Make sure that the data synchronization as described above was previously performed to have access to the full data set.



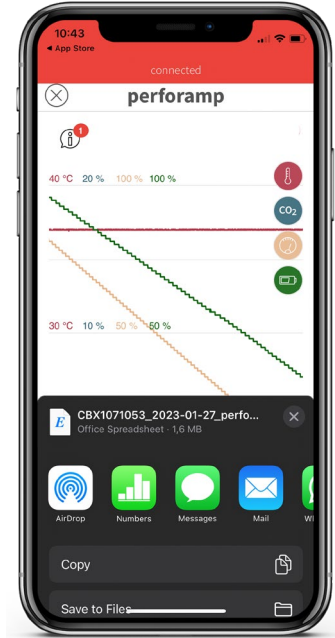
The event menu lists all logged events the Cellbox 2.0 recorded while the episode was running. This includes user activities as well as events and warnings that occurred during the respective time window of the episode. Every event is represented by a tile. By tapping the tile the general conditions of the Cellbox 2.0 at the moment the event was recorded can be displayed.

Tap on the “Graph” submenu to show the graphical data time course.



You have the option to change the time range of the graph by pressing the drop down menu on the bottom labelled with the current selected time axis range. The buttons on the upper right labelled with “CO<sub>2</sub>”, the temperature symbol and battery meter symbol can be used to show or hide respective curves. You can also scroll sideways to navigate along the time axis.

The fourth option in the episode submenu is for exporting the data. When you navigate to the export menu there will directly appear the export pop up. This popup is equivalent to the typical Android / iOS share-popup. You have the possibility to upload the export \*.xlsx file into the cloud (e.g. iCloud, Google Drive) or to send it via mail or messenger services (e.g. Outlook, WhatsApp, Signal etc.).



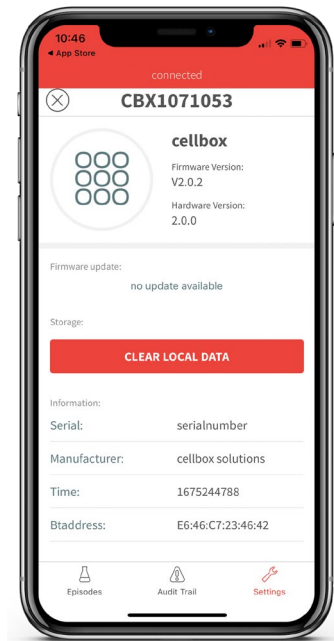
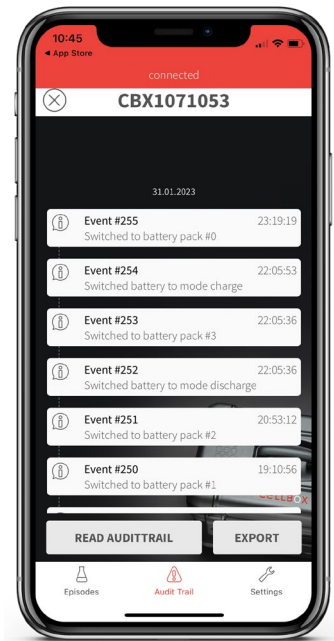
The exported file is a formatted \*.xlsx file which is named with the name of the episode you selected. The file will contain three different sheets - overview, measurements and events. The exported file will show additional performance data (e.g. lid state, maximum x and y tilt values the last minute, max. acceleration and vibration values over the last minute as well as ambient conditions such as the environmental pressure and ambient temperature\*.

\*the ambient temperature is not representing the actual ambient temperature of the environment. It represents the internal chassis / device temperature but is not connected to the incubation space temperature.

### 4.3 Audit Trail Menu

The audit trail is similar to the event menu as described above. The difference here is that the whole list of events since the Cellbox 2.0 was started for the first time can be shown and exported.





To get access to the audit trail, tap onto the audit trail menu and synchronized the data by pressing the “READ AUDITTRAIL” button. To export it, tap “EXPORT” and an export popup will appear.

This popup is also equivalent to the typical Android / iOS share-popup. You have the possibility to upload the export \*.xlsx file into the cloud (e.g. iCloud, Google Drive) or to send it via mail or messenger services (e.g. Outlook, WhatsApp, Signal etc.).

#### 4.4 Settings Menu

The settings menu shows general information about the Cellbox 2.0 Bluetooth interface and gives access to clearing all local App data from the Cellbox 2.0 device to which the App is currently connected. You can also delete the device connection, which will remove the Bluetooth pairing of the App and Cellbox 2.0 after you close the device menu by taping on the “X”-Button on the upper left corner.



OOO  
OOO CELLBOX  
OOO THE LIVE CELL SHIPPER

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