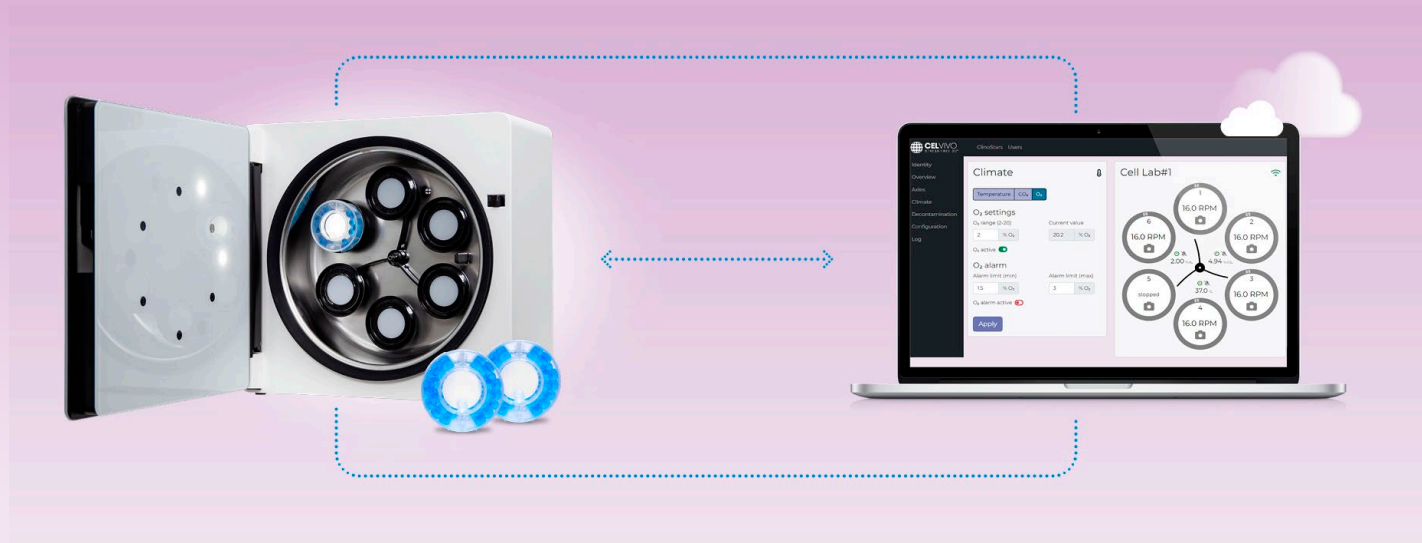


SETUP GUIDE

# How to Control Your ClinoStar 2



# Introduction



Connecting your ClinoStar 2 to either a local control panel or CelVivo.Cloud is necessary in order to control your ClinoStar 2.



You can control your ClinoStar 2 with the local control panel using the included tablet or through CelVivo.Cloud, which is a remote browser-based solution that requires access to the internet.



While CelVivo.Cloud is optional, it is highly recommended as it gives you a variety of possibilities in your research with the ClinoStar 2.



You need to setup the basic control panel first **(step 4-7)** and then setup the browser-based solution for CelVivo.Cloud afterwards **(step 8-11)** if you wish to do so.



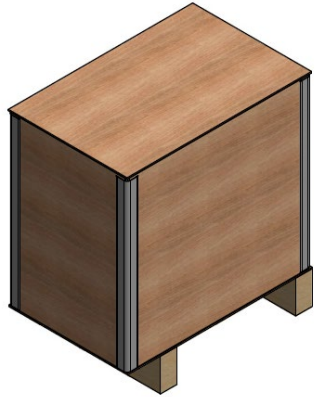
Before you begin with this quick guide, we recommend that you watch our online tutorials about how to connect your ClinoStar 2 scanning the QR code below.



ClinoStar 2 tutorials

1

Unbox the ClinoStar 2 and prepare the system for installation.



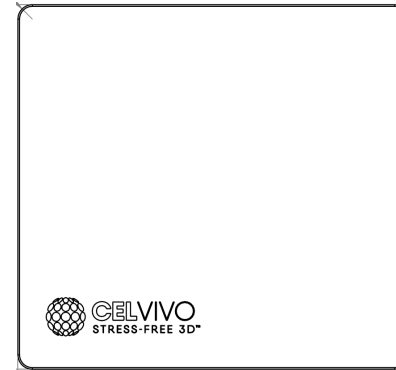
Check the content of the box:

- ClinoStar 2
- Power supply and electrical cord
- CO<sub>2</sub> hose and filter
- Manual
- WiFi antenna
- Tablet
- *Optional: Hypoxia-module*

2

Place the ClinoStar 2 according to specifications

See manual section 2.2.1 for specifications

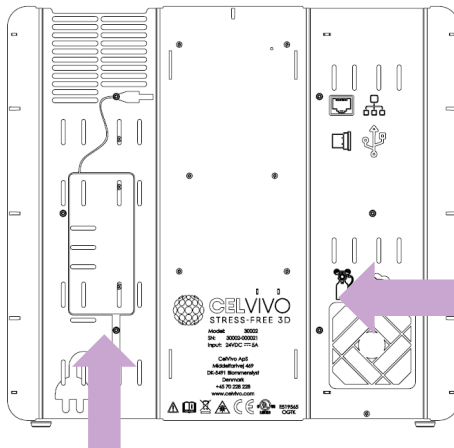


Be on the lookout for:

- Appropriate room ventilation
- A dry location
- A level surface (use spirit-level)
- Temperatures between 18°C and 30°C
- A max humidity of 70%
- Space for door opening

3

Connect the ClinoStar



Attach CO<sub>2</sub> hose and filter in the right side of the back of the ClinoStar 2

4

Setup Local Control Panel and CelVivo.Cloud



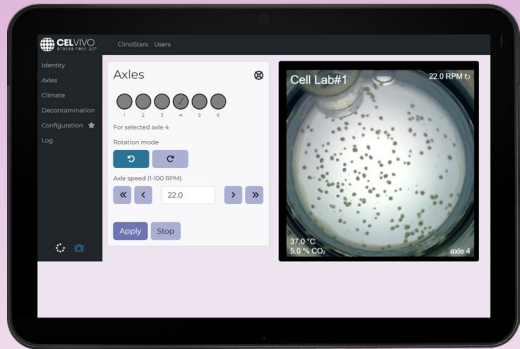
Complete the basic setup required for the on-premises controls

Continue at Setup guide Step 5

Plug in the appropriate power cord in the left side of the back of the ClinoStar 2

SETUP GUIDE

# Setting up the Local Control Panel



# 5

## Switching on the tablet

Start by switching on the included tablet.

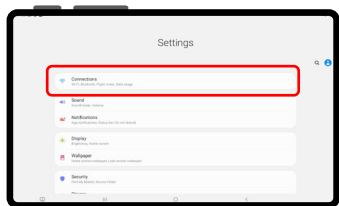
- To power on the tablet press and hold the smaller of the two buttons on the side of the tablet until the display activates.



- When the tablet is fully started, navigate to the settings menu by swiping up and pressing the gear icon



- Go to the tab called connections and click Wi-Fi



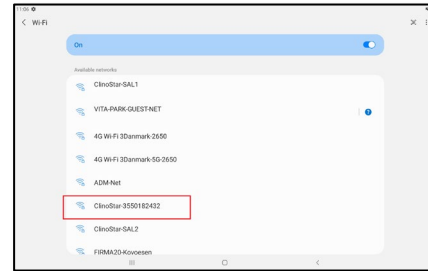
# 6

## Connect locally

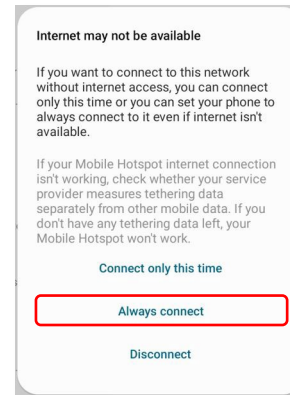
Now you need to connect the tablet to the ClinoStar 2 in order to control the system.

- Connect your tablet by searching for the ClinoStar Local Control WiFi-network starting with "Clinostar-". The name of the network matches the ID of your ClinoStar 2.

The initial password to access is "clinostar" (w/o "")




- Click "Always Connect" in the pop-up

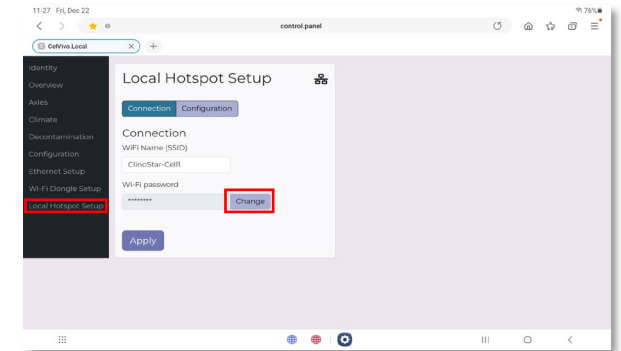


# 7

## Change security details

Once you're connected you need to change the password for the local control panel:

- Navigate to the frontpage of the tablet and click the CelVivo icon to access the local control panel 
- Go to Local Hotspot Setup in the menu.



- Click "change" to enter your new WiFi-password (you can also change the Wi-Fi-name, but this is optional)
- Click apply to save changes
- When changing password, the tablet will disconnect from the ClinoStar. Redo step 5 to reconnect using the new password.

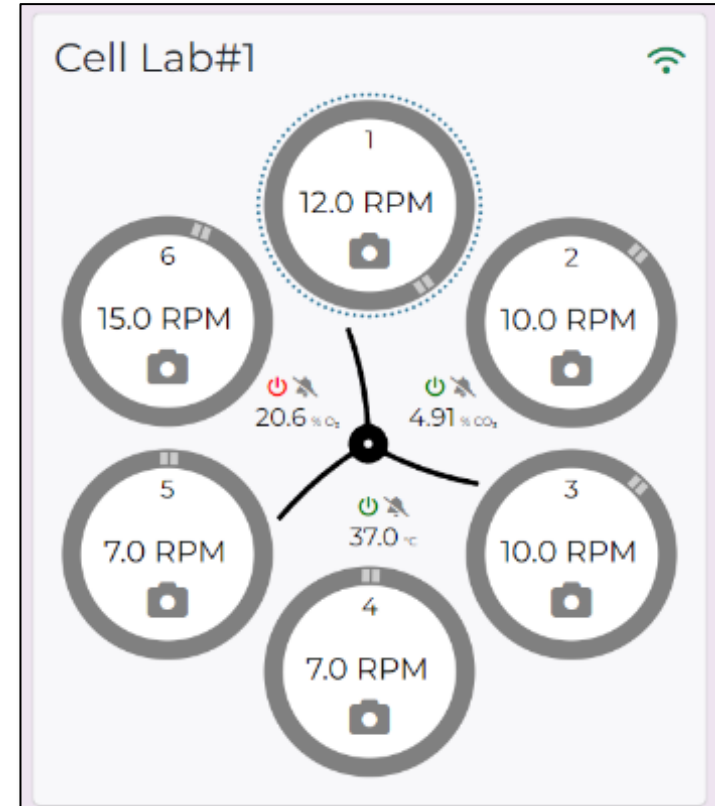
# Control the ClinoStar 2

You can now start to use the ClinoStar 2 through the Local Control Panel.

Refer to the manual section 4 on how to navigate and control the ClinoStar 2.

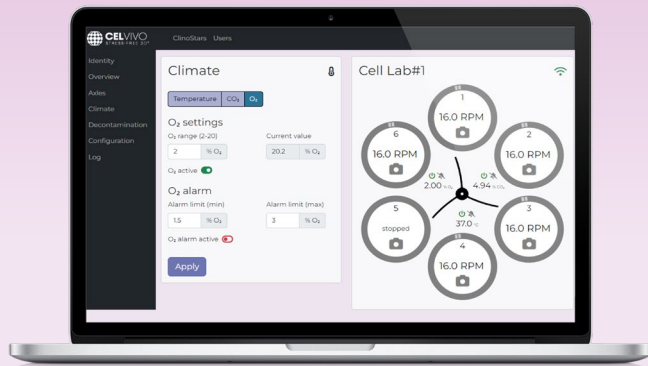
If you wish to control the ClinoStar remotely you need to setup an internet connection following the steps on the coming pages.

Note: You might need to access the Local Control Panel to configure ie. credentials for a Wireless Connection.



## SETUP GUIDE

# Connecting to CelVivo.Cloud



# Before You Progress

There are two ways you can connect your ClinoStar 2 to CelVivo Cloud.

You can either use the included USB Wi-Fi-antenna or an ethernet cable.

On the back of your ClinoStar 2, on the right side, is ports for both an ethernet cable or the USB Wi-Fi antenna (see images to the right to find the ports).

If you want to use WiFi-please continue to step 8 for the “WiFi antenna Setup”.

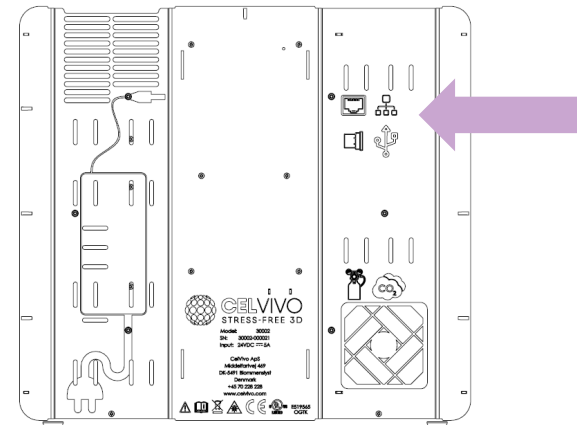
If you want to use the ethernet cable, go to step 9.

When you’ve done either step 8 or 9, progress to step 10-11 to sign in to CelVivo Cloud

**Note:** Before progressing to step 10-11, it’s recommended that you (re)watch our tutorial video about how to sign up to CelVivo.Cloud by scanning the QR-code below.



CelVivo.Cloud



If you want to use CelVivo Cloud:

WiFi antenna *OR* ethernet cable



# 8

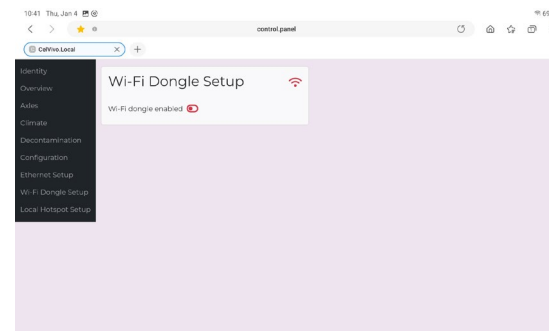
## Connect WiFi antenna

1. Put the WiFi antenna in the ClinoStar 2.
2. Open up the tablet you used in step 5-7 and click the CelVivo logo on the front screen. Go to “WiFi Dongle Setup” in the menu and click the toggle icon so it turns green.
3. Click the “scan” button to search for the WiFi you normally use. When the scanning is done, click “other” to select the WiFi.
4. Click the “enter” button and type in the WiFi password.
5. Click “connect”
6. Your ClinoStar 2 is now connected to the Wi-Fi, and you can access CelVivo Cloud from anywhere.
7. Continue to step 10-11

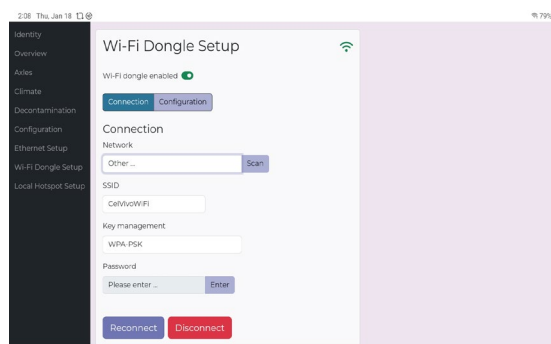
1



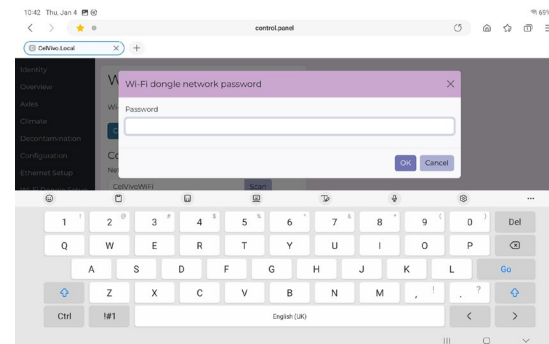
2



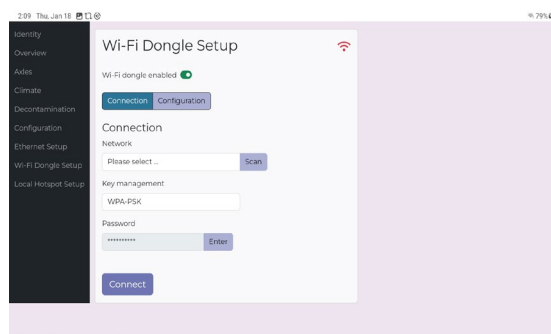
3



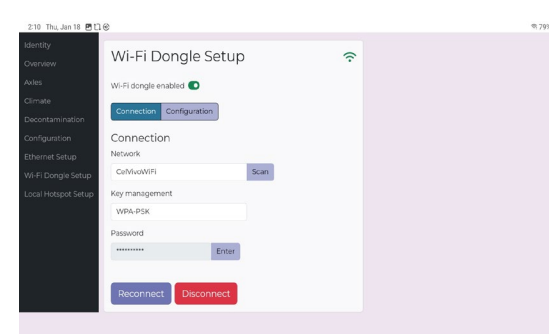
4

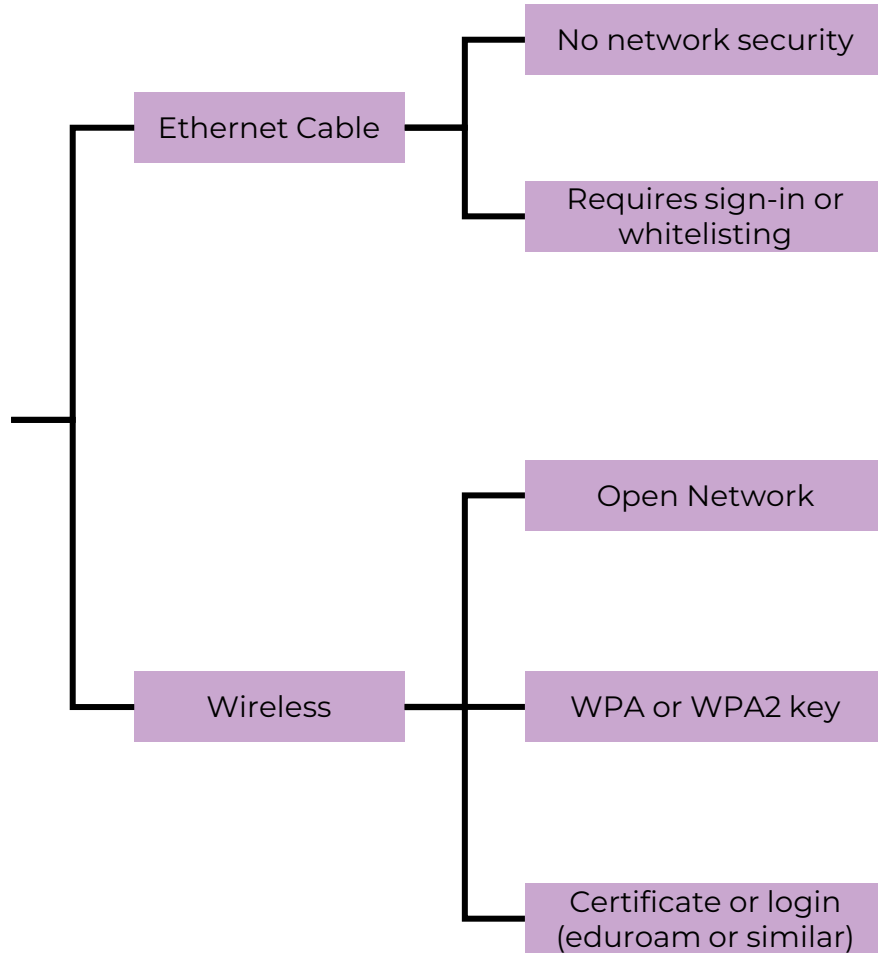


5



6





If your IT-department does not have any specific security requirements for ethernet connections, you can establish connection to CelVivo.Cloud by plugging in an ethernet cable (RJ45) in the back of the ClinoStar. Refer to the manual section 3.4.1.

If your IT-department requires whitelisting of the equipment to bring it online, contact your local IT support-team and ask them for help in configuring the network settings. IP address settings of the ethernet connection can be set using the Local Control Panel. Refer to section 3.4.1 in the manual.

If a WiFi network allows an Open Network connection you can connect using the WiFi dongle and the Local Control Panel. Refer to the manual section 3.4.2 on how to scan for a network and connect.

If a WiFi network requiring a WPA or WPA2 key, you can connect the ClinoStar using the WiFi dongle and the Local Control Panel. Refer to the manual page 3.4.2 on how to scan for a network and enter the required credentials.

WiFi networks requiring more advanced authentication models (WPA2-Enterprise/802.1x or similar) are not supported out of the box. You can easily obtain connection by using a (Android-) tablet or Windows based PC sharing connection. Refer to the manual section 3.4.3 and consult your IT-department or CelVivo Support.

# 10

Create a user on CelVivo Cloud

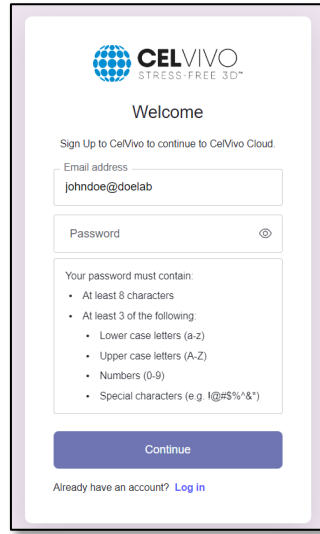
Open a browser (not on the included tablet) and navigate to <https://celvivo.cloud.com> or scan the QR code below



Click the "Sign up" link at the bottom of the form

Enter a valid e-mail and be sure to enter a secure password that adheres to the password requirements.

Click continue. A mail will be sent to your inbox where you need to verify your email.



Scan me to go to CelVivo.Cloud



# 11

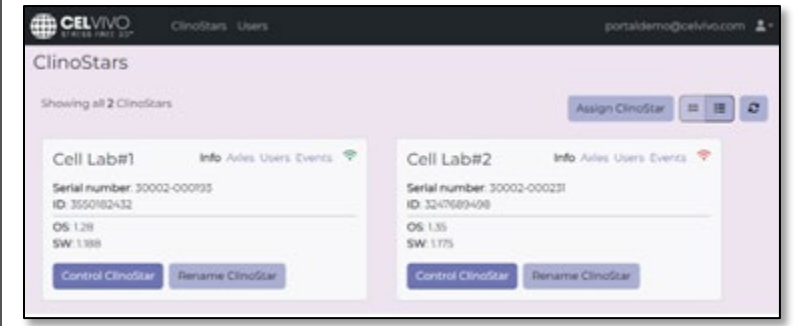
Fill-in signup details

Fill-in the Onboarding form to create your virtual lab in CelVivo Cloud. You can later invite others to your lab, if required.

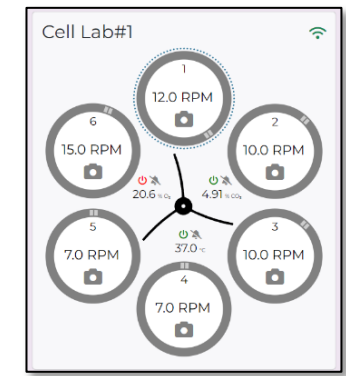
Make sure to fill in the serial number or ID of your ClinoStar to add it to your lab.

Finish by clicking 'submit'.

You are now all set and ready to go!



You can control your ClinoStar 2's by clicking "Control ClinoStar"



Refer to the manual section 4 for more details on how to navigate CelVivo Cloud.

## REQUIREMENTS FOR INTERNET CONNECTION AND BROWSER

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The ClinoStar uses the internet connection to stream live-video from the ClinoStar to the Cloud on demand.

To ensure an uninterrupted and smooth experience we recommend *at least* a 15 mbit internet connection for the ClinoStar for low-resolution mode. Higher resolutions requires higher bandwidth.

The Client should have *at least* a 10Mbit connection. The CelVivo.Cloud experience has been tested on Android 12 and 13 using Chrome, iOS 17 using Safari and Chrome and Windows 10 and 11 using Chrome and Edge. We recommend at least a tablet for better viewing experience. Phones currently not recommended due to their limited screen real estate.

## WHAT DATA IS TRANSMITTED AND WHAT DOES CELVIVO DO WITH IT?

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The ClinoStar transmits various data to the CelVivo.Cloud such as metrics on the axles (speed, direction etc) and metrics regarding the environment in the ClinoStar (temperature, CO<sub>2</sub>, O<sub>2</sub> etc).

When toggled by the user a live video feed of the ClinoReactor is transmitted. The video-feed in part or whole is **not** stored on the CelVivo.Cloud and **cannot** be retrieved and/or viewed by CelVivo or any non-authorized user.

All log data is available in the “Log Section” of the CelVivo.Cloud user experience.

## THE SHORT TECH-STUFF FOR IT WHAT IT IS AND WHAT NETWORK TRAFFIC IS GENERATED

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The ClinoStar is essentially a Linux device that through various embedded software controls allows for advanced control of the environment and axles in the ClinoStar. The user can control the ClinoStar through an offline-control panel (CelVivo Local Controls) which are only available through a closed internal WiFi network distributed by the ClinoStar. *Even if the ClinoStar is connected, the internal WiFi will not provide internet access to its clients.*

To get the full value of the ClinoStar, the CelVivo.Cloud solution offers remote control of the ClinoStar as well as collections of logging data etc.

The ClinoStar connects to the Cloud (running in Amazon Web Services, EU data centre) through HTTPS and implements an advanced handshake solution to ensure that all messages are signed and securely routed to the right recipient in the Cloud.

Status metrics are transmitted every 10 minutes when in standby, and realtime when a user is active.

The user can invoke a live-stream from the embedded camera in the ClinoStar. This feed is routed through AWS and only available on demand.

CelVivo.Cloud utilizes Auth0 login to provide secure authentication services for the CelVivo.Cloud. *No user credentials are stored in the CelVivo.Cloud system and no user regardless of access right in the CelVivo.Cloud environment have access to users sign-in credentials.*