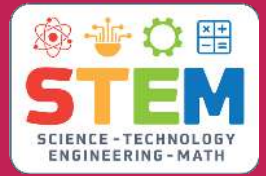
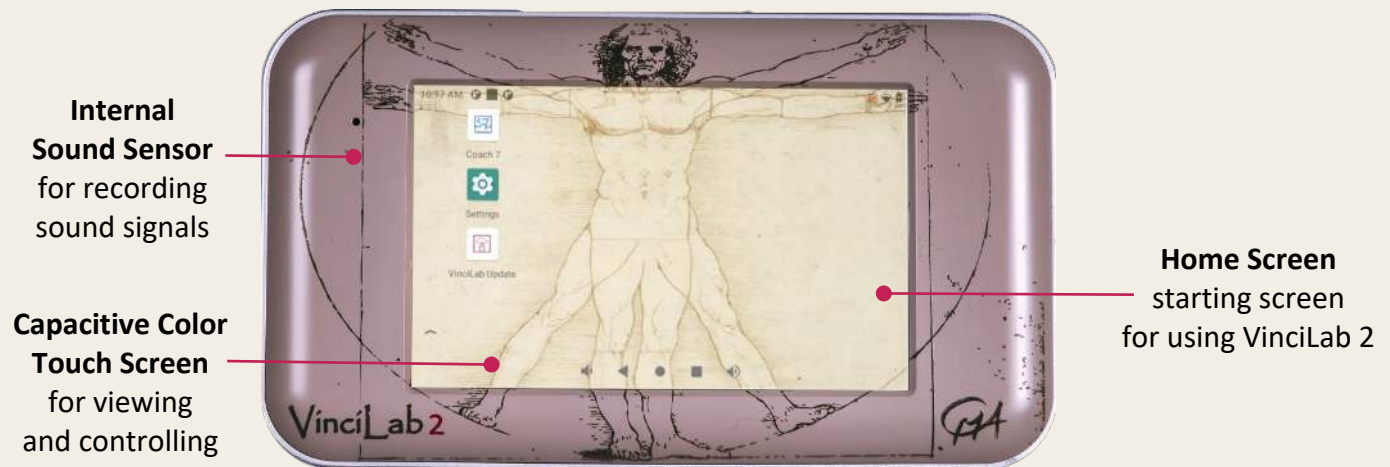


# QUICK START GUIDE VINCILAB 2



VinciLab 2 is an Android mobile graphic data acquisition system, which can be used in a variety of ways, standalone and with a computer or tablet, in the classroom and in the field.



**Power Button** for turning VinciLab 2 and its screen On or Off



**Sensor inputs** (A1, A2, A3, A4), **ControlBox port** (D1) and **HDMI port** (D2)






**USB C port** (left) for charging and communication  
**USB port** (right) for connecting any USB peripheral




**Audio Out** (left) for generating DC/AC voltage signals  
**Audio In** (right) for connecting external microphone

At the backside of VinciLab 2, **Speaker** and a compartment with an internal rechargeable **Battery**, are located.

The Home Screen is the starting point for using your VinciLab. The shortcuts to **Coach 7**, **Settings**, and **VinciLab Update** apps are already present on the Home screen.

- Use  **Settings** to connect your VinciLab 2 to internet and configure display and system settings.
- Use  **VinciLab Update** to check if any updates releases are available and to update VinciLab 2.
- Use  **Coach 7** for data collection.

Drag  upwards to open the Application screen. This screen contains shortcuts to all applications that come installed with your VinciLab 2. These are Calculator, Clock, Files, Gallery, Lightning, Music, RustDesk, Search, Video and VinciLab MCPU.

- **To turn VinciLab 2 on** press and hold the Power button until the VinciLab's screen turns on. The minimum battery level to start VinciLab 2 is 5 %.
- **To turn Vincilab 2 off** press and hold the Power button until the shutdown menu opens. Tap **Power off** to shut down the device.

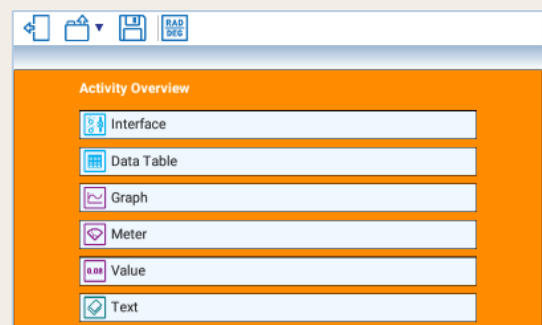
# VinciLab 2 STANDALONE: THE COACH 7 APPLICATION

Is a powerful app for data collection and control when using VinciLab 2 standalone. It offers live sensor data displays, real-time graphing, tools for data processing. If you are familiar with working with Coach 7 on computers or tablets you will recognise a lot of similarities in functionality.

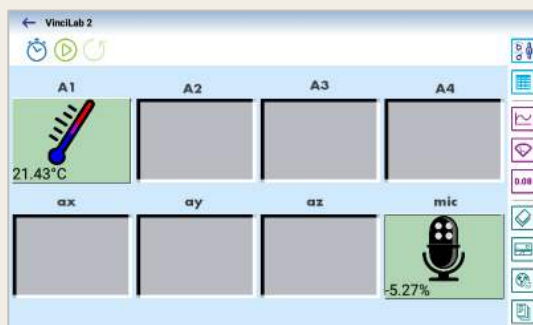
## Dashboard with buttons for easy start



## Activity Screen with overview of all elements



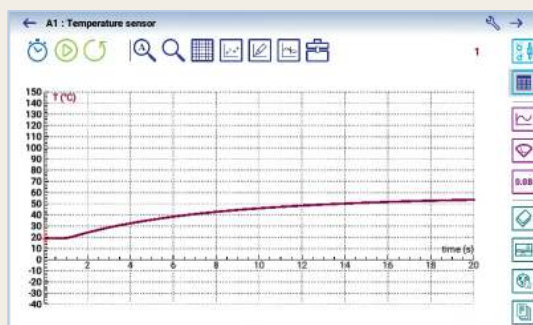
## Interface Screen to display connected and enabled sensors



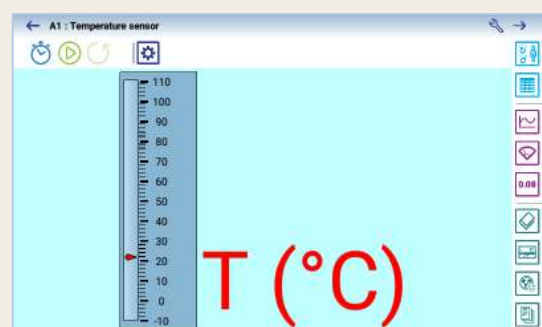
## Data Table Screen, to display data in a table

Name	time (s)	T (°C)
1	0.00	19.29
	0.02	19.29
	0.04	19.29
	0.06	19.29
	0.08	19.29
	0.10	19.29
	0.12	19.29
	0.14	19.29
	0.16	19.29
	0.18	19.23

## Graph Screen to display data in graphs



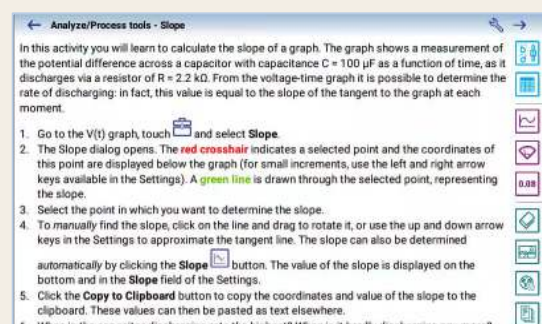
## Meter Screen to display data on meters



## Value Screen to display data as digital values


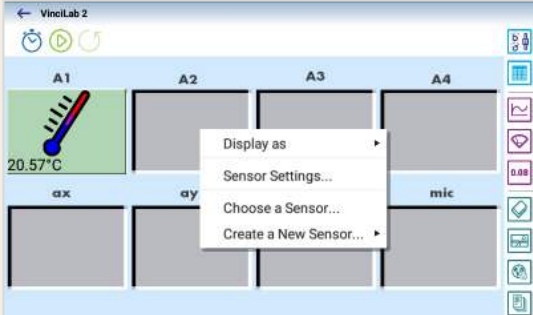


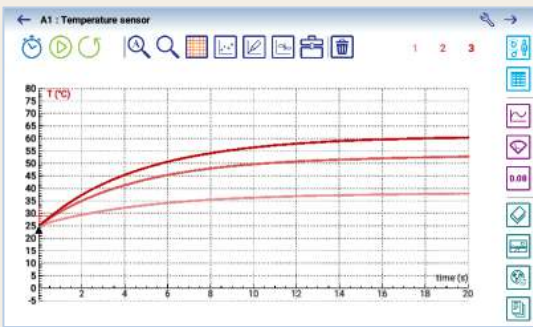





## Content Screens to display texts, images and web pages



## VINCI LAB 2 STANDALONE: TYPICAL MEASUREMENT PROCEDURE

When working with VinciLab 2 as a standalone device VinciLab is controlled by its touch screen and the Coach 7 app is running on VinciLab 2.

1. Turn VinciLab 2 on by pressing its Power button. Wait until the Home Screen appears.
2. Ensure VinciLab 2 has sufficient battery power (at least 20%) or is connected to a power supply.
3. On the Home screen tap **Coach 7**.
4. Tap the dashboard button **Measurement** and select **Time-based Measurement**.
5. On the Activity screen tap  **Interface**.
6. Connect the sensor(s) to the sensor input(s) of VinciLab 2 or enable the internal sensors. When a connected sensor is detected its sensor icon appears and its live readings are displayed. In rare situations, a sensor may be not detected. Then tap the empty sensor input to which the sensor is connected and select **Choose a sensor** and select the correct sensor from the list.
7. The sensor icons on the Interface screen show the current values measured by the sensor. These live displayed data are not stored in VinciLab's 2 memory.
8. Tap the toolbar button  **Settings** to check and modify the measurement settings.
9. Tap the sensor icon and select **Display as > Graph**. The graph appears on the **Graph** screen.
10. Tap  to start data collection. In most cases, Coach 7 directly starts the measurement. If triggering is enabled, then the measurement is started automatically when the trigger conditions are met.
11. The measurement is finished when the specified measurement time has been reached.
12. Graphs are automatically updated during the data collection. For each new measurement run, a new run is added to the graph(s). Runs are distinguished by means of a shade of the variable color; the latest Run gets the darkest shade. The Run numbers, displayed on the right side of the Graph Toolbar, indicate the number of available Runs.
  - Tap on the Run number to hide its data on the graph. Tap again to show it.
  - To delete a measurement run:  
**In the Graph screen:** Tap  and select the run you would like to delete.  
**In the Data Table screen:** Tap a run number in the table and select **Delete**.  
The selected runs will be removed from the Data Table and graphs, and the remaining runs will be renumbered. Note that this action cannot be undone, the deleted runs are lost.
13. To save your Result file exit the **Graph** screen  and confirm that you want to save it or use  in the Activity screen Toolbar. Name the file and tap **SAVE**.

## USING VINCI LAB 2 WITH COMPUTERS AND MOBILE DEVICES

VinciLab can be used as a lab interface connected (via USB or Wi-Fi) to computers (Mac and Windows) and mobile devices (iOS, Android).

Coach 7 and Coach 7 Lite programs and apps support such measurements.



### 1. USING VINCI LAB 2 WITH COMPUTERS

VinciLab 2 can work as a lab interface with computers such as Mac and Windows computers. During such measurement, the Coach 7 or Coach 7 Lite program on the computer is used to control the data collection. The collected data are transferred to the computer and the measurement can be followed and analyzed on the computer.

The device can communicate via the USB port (USB C port on VinciLab 2) or wirelessly via Wi-Fi.\*

### 2. USING VINCI LAB 2 WITH MOBILE DEVICES

VinciLab 2 can work as a lab interface with mobile devices such as Android and iOS. During such measurement, the Coach 7 or Coach 7 Lite app on the mobile device is used to control the data collection. The collected data are transferred to the mobile device and the measurement can be followed and analyzed on its screen. When working with mobile devices VinciLab communicates via Wi-Fi\*.

### 3. TRANSFERRING FILES BETWEEN VINCI LAB 2 AND THE COMPUTER

Users can store their files on VinciLab 2 in different folders. Dedicated folders like Images, Videos, and Documents are already present on VinciLab 2.

Transferring files between VinciLab 2 and a computer is possible via:

<b>USB Memory Stick</b>	Insert your USB memory stick into the USB port of VinciLab 2. Use the Files app to move or copy files.
<b>USB cable</b>	Connect VinciLab to the computer via the provided USB cable. When VinciLab 2 is detected then you can use it like any other external storage device. On Mac computer, you must first install an app that makes possible file transfer between a Mac computer and an Android device.
<b>Wi-Fi</b>	Make sure that VinciLab 2 is connected to the same network as your computer. Use the <b>Rust Desk</b> app on your VinciLab 2 together with the <b>RustDesk</b> program on your computer (needs to be installed beforehand) to transfer the files between the two devices*.

### 4. DISPLAY THE VINCI LAB 2 ON A LARGER MONITOR

**HDMI:** Connect VinciLab 2 and a monitor with an HDMI cable, then start up VinciLab 2.

**Wi-Fi:** Use the **Rust Desk** app on your VinciLab 2 together with the **RustDesk** program on your computer (needs to be installed beforehand) to display the VinciLab's screen on your computer screen\*.

\* Read VinciLab 2 Users' Guide for a detailed description of how to do it.

To download the guide go to <https://cma-science.nl/resources/en/interfaces/007.pdf>

