JungleSIM C1H Control Hub - User Manual

Setting up, using and caring for the C1H terrarium controller

Revision 2 · 2026-10-28

C1H-UM-EN

JungleVault

Revisions

Rev	Date	Changes
2	2026-10-28	Numbered step pictures (black and white, drawn from the case CAD) for setting up and wall mounting (marked R2).
1	2026-10-24	First issue, for hardware rev 1.4 and the JLC3DP case rev 1.0.

Sections changed in a revision carry a bar and the revision number in the left margin: **green** for this revision, grey for earlier ones.

Contents

About this manual 3
Safety information 3
Intended use . . . 3
Warnings . . . 3
Keeping your animals safe . . . 3
The C1H at a glance 4
What's in the box 5
Setting up 6
1. Install the app . . . 6
2. Connect it to your Wi-Fi (WPS) . . . 6
3. Add it to the app . . . 6
4. Add sensors and plugs . . . 6
5. Set your climate . . . 6
Everyday use 7
The microSD card . . . 7
Mounting on the wall . . . 7
Factory reset . . . 7
Care and maintenance 8
Troubleshooting 8
Technical data 8
Disposal 9
Declaration of conformity and warranty 9

About this manual

This manual is for the **JungleSIM C1H Control Hub** (model C1H, hardware rev 1.4). Read it before you use the device and keep it for later. Pass it on if you give the device to someone else. The newest version is on thejunglevault.com on the C1H product page.

> **Safety first.** The chapter "Safety information" lists what you must know to use the C1H safely. The C1H switches heaters, lights and misters through smart plugs, so a mistake in the settings can harm your animals. Read the chapter "Keeping your animals safe" too.

Item	Details
Manufacturer	JungleVault (Lucas Bohunovsky), Frauenstiftgasse 5/1/11, 1210 Wien, Austria
Contact	contact@thejunglevault.com · thejunglevault.com
Product	JungleSIM C1H Control Hub, model C1H
Serial number	on the label on the back (C1H-YYMM-NNN)

Safety information

Intended use

The C1H is a controller for terrariums, paludariums and similar enclosures for animals and plants. It does the same job as the JungleSIM S1M screen module, without a screen: it receives the climate measured by JungleSIM wireless sensors, switches Shelly smart plugs on schedules you set in the JungleSIM app and sends alerts and reminders to the app. It is meant for use indoors, in dry rooms, by adults. Any other use is not intended.

Warnings

- **Power supply.** Use only a CE-marked 5 V USB power supply that meets EN IEC 62368-1, with a USB-C cable. A supply rated 5 V, 1 A to 3 A is right. Never connect the C1H to any other voltage.
- **Water and humidity.** The C1H is not waterproof (IP20). Mount it outside the terrarium, or where no water, spray, mist or condensation can reach it. Never put it inside a terrarium. If it got wet, unplug it at once and let it dry for 48 hours before you use it again.
- **Coin cell.** The C1H contains a CR2032 lithium coin cell for its clock. It is inside the closed case, held by screws. **Swallowing a coin cell can cause severe internal burns within two hours and death.** Keep new and used coin cells away from children. If you think a cell has been swallowed or put inside any part of the body, get medical help immediately.
- **Children.** Not a toy. Keep the device, its cable and its packaging away from small children. The cable is a strangulation risk.
- **Do not open.** There are no parts you can service inside, apart from replacing the coin cell (see "Care and maintenance"). Do not modify the electronics or the firmware.
- **Damage.** Do not use the C1H if its case or cable is damaged. Unplug it and contact us.
- **Heat.** Keep the C1H away from heat lamps, heating mats and direct sun. Operating temperature 0 to 40 °C.
- **Medical devices.** The C1H sends Wi-Fi radio signals (2.4 GHz). Keep it at least 20 cm away from implanted medical devices such as pacemakers.

Keeping your animals safe

The C1H switches the plugs that power your heaters, lights, foggers and misters. If something goes wrong (a setting, the Wi-Fi, a plug, a power cut), a heater may stay on or off. The C1H has no screen, so you see its alerts only in the app.

- Always connect a **heater through its own thermostat or a protective thermostat** that cuts it off at a safe maximum temperature, independent of the C1H.
- Check the temperature and humidity in the terrarium yourself, especially in the first days after a change.
- Turn on the **app alerts** (too hot, too cold, sensor lost, plug lost, hub offline) and keep your phone's notifications on.
- After a power cut the C1H restarts on its own and takes up the schedules again. Plugs that lost power return to their own default state (see the Shelly plug's instructions).

The C1H at a glance



The C1H: a plain black case, no buttons, no screen

- **No screen and no buttons:** everything is set in the JungleSIM app.
- **USB-C** socket (power) and **microSD** slot in the bottom edge, so the cable hangs down when the C1H is on the wall.
- **Two keyholes** on the back to hang it on the wall, and the label with the serial number.



Bottom edge: microSD card (left) and USB-C power (right)

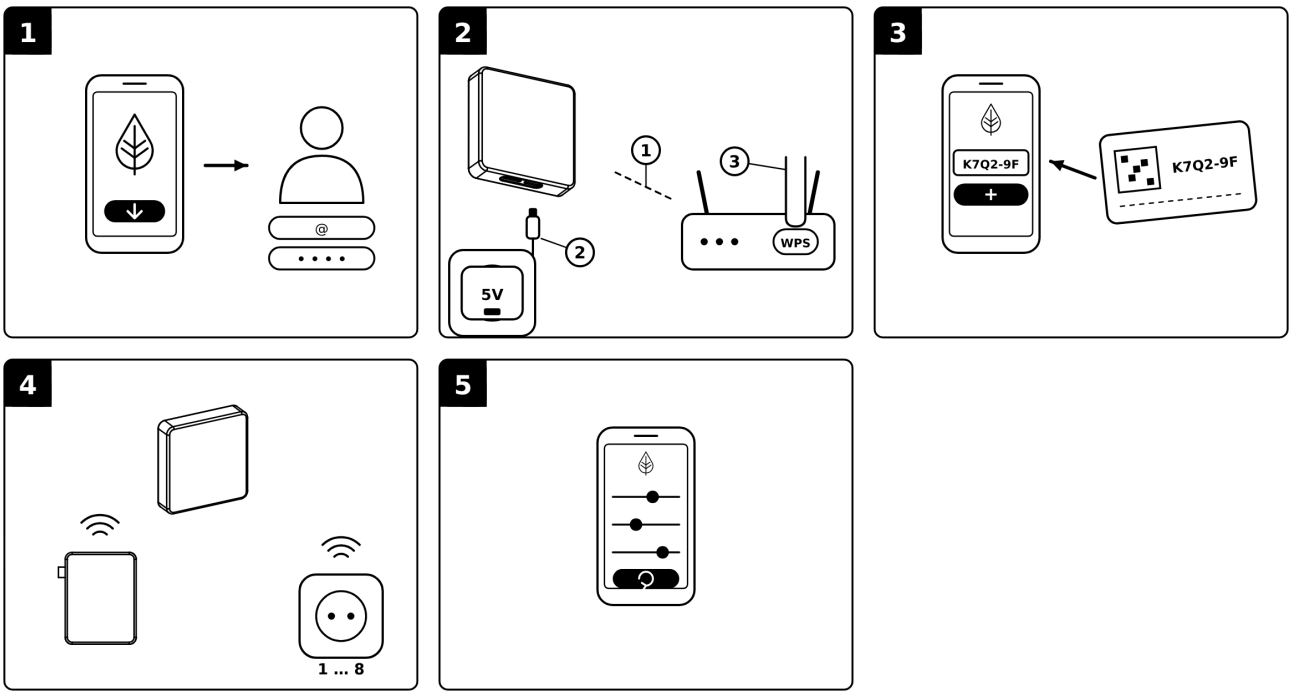
What's in the box

- C1H Control Hub in its case
- USB-C cable
- This manual (short version) and the safety information sheet
- Sticker with the claim code you need to add the C1H to your app account

A power supply is not included. Use a 5 V USB power supply as described under "Warnings".

Setting up

R2



1. Install the app

Install the **JungleSIM** app on your Android phone and create an account (e-mail address and password).

2. Connect it to your Wi-Fi (WPS)

The C1H has no buttons. It joins your Wi-Fi with WPS by itself, at power-up (2.4 GHz networks only):

1. Place the C1H near your router for the first start.
2. Plug the USB-C cable into the C1H and into a 5 V USB power supply.
3. Press the **WPS button on your router** within two minutes.

When the C1H finds no known network at power-up (a new C1H, or a new router), it waits two minutes for WPS. If no router answers, it goes back to its saved network and keeps trying it, so a router that was only switched off keeps working. To try WPS again, unplug the C1H and plug it in again.

3. Add it to the app

In the app tap **Add device** and enter the **claim code** from the sticker in the box. The app shows the C1H as "Control hub" and online once it is connected. The first account that adds a C1H owns it. Keep the sticker.

4. Add sensors and plugs

- **Sensors** (for example the T1H climate sensor) pair with the C1H in the app under Sensors. They talk to the C1H directly by radio, not through your router.
- **Shelly plugs:** in the app choose Plugs, Add plug, and pick what the plug powers (light, heater, mister, rain, fogger, fan). Put the Shelly plug in its setup mode (see its instructions); the C1H finds it within three minutes. Up to eight plugs per C1H.

5. Set your climate

In the app set the day and night targets, the light hours and the seasons for your terrarium, then tap **Synchronize**. The C1H keeps every setting itself and works on even when the Wi-Fi or the internet is down.

Everyday use

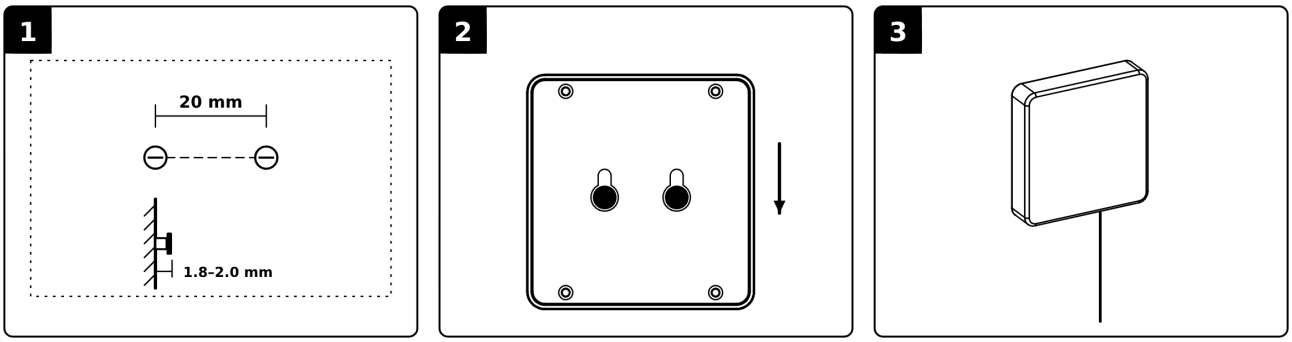
- The app shows the temperature and humidity of each sensor, the plugs and the alerts and reminders.
- The C1H checks the climate every 10 seconds and alerts the app once when a value leaves the target range or a sensor or plug stops answering.
- **Firmware updates** arrive over Wi-Fi by themselves. The C1H also passes updates on to its sensors. Leave it plugged in; an update takes a few minutes.

The microSD card

The C1H keeps its settings and logs on a microSD card (FAT32, up to 32 GB). Push the card in until it clicks; push again to release it. Only remove it while the C1H is unplugged.

Mounting on the wall

R2



1. Put two screws into the wall, **20 mm apart**, level with each other. Flat (wafer or low pan) head, 5.5 to 7.5 mm across and at most 1.6 mm tall; shank up to 3.5 mm. Leave 1.8 to 2.0 mm between the wall and the underside of each head.
2. Hold the C1H with the USB-C edge down. Put the round openings of the keyholes over the heads and slide the C1H down.
3. Route the USB cable so nobody can trip over it or pull the C1H off the wall.

Mount the C1H away from water, spray and heat, and at least 20 cm from people who spend a long time nearby (for example a desk). Metal behind or around the C1H weakens its Wi-Fi; keep the top left corner (seen from the front) free.

Factory reset

Unplug and plug in the C1H **five times in a row, each time for less than 10 seconds**. On the fifth start it erases its Wi-Fi, login and settings. Add it to the app again afterwards. A factory reset is also possible from the app.

Care and maintenance

- Wipe the C1H with a dry, soft cloth. No water, no cleaning agents, no solvents.
- **Clock battery.** The CR2032 coin cell keeps the time during power cuts and lasts several years. If the clock is wrong after every power cut, have the cell replaced: unplug the C1H, take out the four screws on the back, lift the lid by its screw holes, replace the cell (+ facing up, type CR2032 only) and close the case with all four screws. Take the old cell to a battery collection point.
- **Restart:** unplug the C1H for ten seconds and plug it in again.

Troubleshooting

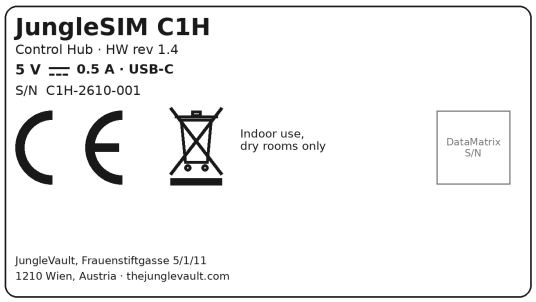
What you see	What to do
The app shows the C1H offline	Check the power supply and the cable (5 V, at least 1 A). Check the router. Unplug the C1H for ten seconds and plug it in again.
It does not join the Wi-Fi	Only 2.4 GHz networks work. Move the C1H closer to the router, plug it in again and press WPS on the router within two minutes.
A sensor shows no values	Check the sensor's battery and distance. After 10 minutes without a report the app gets a "sensor lost" alert.
A plug does not switch	Check that the plug has power and Wi-Fi; the app shows "plug lost". Add it again if needed.
The time is wrong	It is set from the internet when online. If it is wrong after power cuts, replace the coin cell.

Technical data

Item	Details
Power	5 V DC via USB-C, max. 0.5 A (typically 0.1 A)
Radio	Wi-Fi IEEE 802.11 b/g/n, 2400-2483.5 MHz, max. 20 dBm e.i.r.p.; ESP-NOW to JungleSIM sensors
Clock	DS3231M real-time clock with CR2032 backup cell
Storage	microSD (FAT32, up to 32 GB)
Size	63.2 x 65.2 x 13.8 mm
Case	PA12 nylon, black, IP20
Operating conditions	0 to 40 °C, max. 85 % relative humidity, no condensation, indoors
Storage conditions	-10 to 50 °C

The full datasheet and the technical drawing are on the product page.

Disposal



The crossed-out wheelie bin means: electrical devices and batteries must not go in household waste. Take the C1H to a collection point for electrical waste (in Austria free of charge at municipal collection points). Take the coin cell out first if you can do so safely, and take it to a battery collection point. You are responsible for deleting personal data (Wi-Fi and account) first: do a factory reset and remove the C1H from your app account.

Declaration of conformity and warranty

Hereby, JungleVault declares that the radio equipment type JungleSIM C1H is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at: thejunglevault.com (C1H product page, Downloads).

You have the statutory warranty of two years. Contact us at contact@thejunglevault.com with the serial number from the label.