JungleSIM S1M Screen Module - User Manual

Setting up, using and caring for the S1M terrarium controller

Revision 2 · 2026-10-28

S1M-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	2026-10-18	First issue (documentation test run), for hardware rev 1.4 and case rev 0.7.

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

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About this manual

This manual is for the **JungleSIM S1M Screen Module** (model S1M, 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 S1M product page.

> **Safety first.** The chapter "Safety information" lists what you must know to use the S1M safely. The S1M 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 S1M Screen Module, model S1M
Serial number	on the label on the back (S1M-YYMM-NNN)

Safety information

Intended use

The S1M is a controller for terrariums, paludariums and similar enclosures for animals and plants. It shows the climate measured by JungleSIM wireless sensors, switches Shelly smart plugs on schedules you set in the JungleSIM app and reminds you of feeding and care. 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 S1M to any other voltage.
- **Water and humidity.** The S1M 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 S1M 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 S1M if its case, screen or cable is damaged. Unplug it and contact us.
- **Heat.** Keep the S1M away from heat lamps, heating mats and direct sun. Operating temperature 0 to 40 °C.
- **Medical devices.** The S1M 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 S1M 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.

- Always connect a **heater through its own thermostat or a protective thermostat** that cuts it off at a safe maximum temperature, independent of the S1M.
- 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) and keep your phone's notifications on.
- After a power cut the S1M 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).

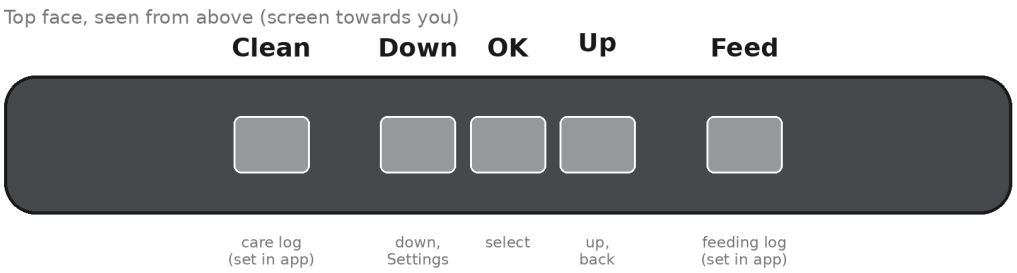
The S1M at a glance



The S1M: e-paper screen in front, buttons on the top face

- **E-paper screen** (3.7 inch): the climate, the time, alerts and reminders. It keeps its picture without power and does not glow at night.
- **Five buttons** on the top face.
- **USB-C** socket (power) and **microSD** slot on the left side.
- **Two keyholes** on the back to hang it on the wall.

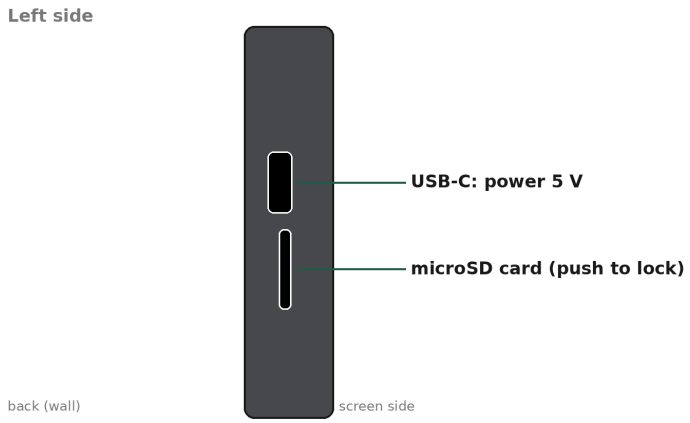
Buttons



The buttons on the top face

Button	What it does
Clean	Logs a care task (cleaning). In the app you can give it another job.
Down	Moves down in a list. On the home screen it opens Settings.
OK	Selects or confirms.
Up	Moves up in a list; goes back one screen.
Feed	Logs a feeding. In the app you can give it another job.

Connections



Left side: USB-C power and the microSD card

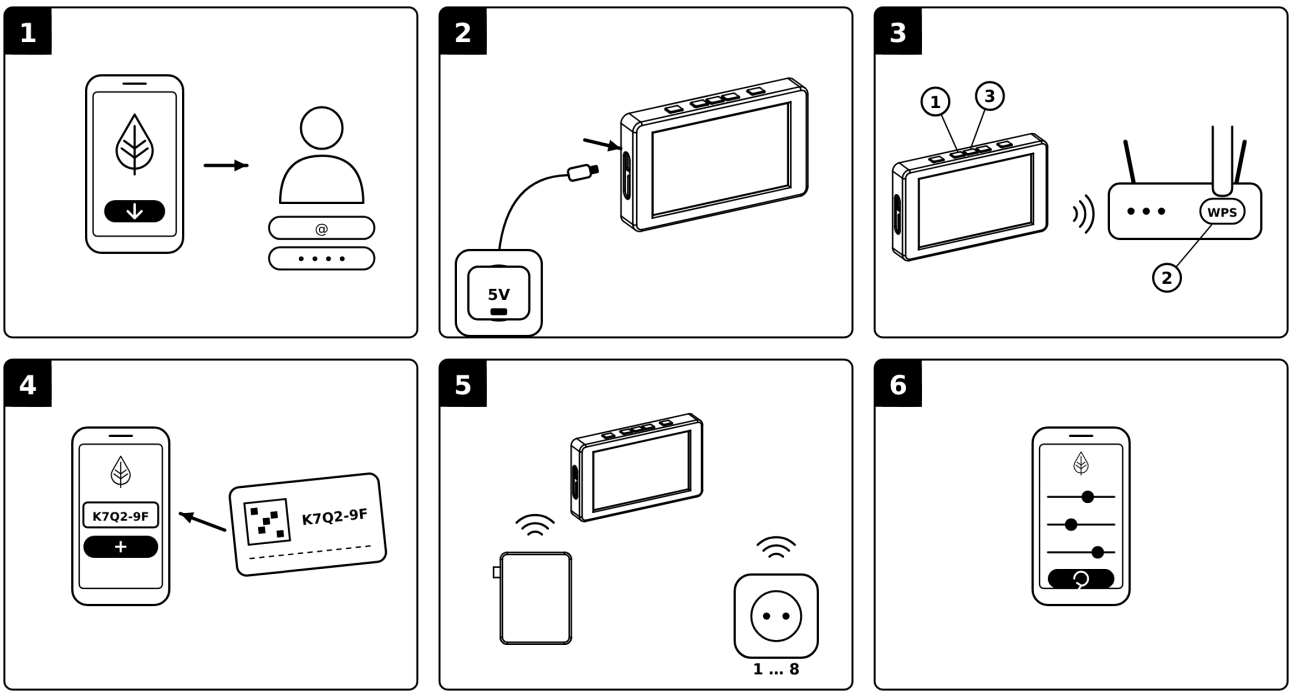
What's in the box

- S1M Screen Module 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 S1M 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. Power the S1M

Plug the USB-C cable into the S1M and into a 5 V USB power supply. The screen shows the start screen and then the home screen. The first start after a new power supply can take up to a minute.

3. Connect it to your Wi-Fi

The S1M joins your Wi-Fi with WPS (2.4 GHz networks only):

1. On the S1M press **Down** to open **Settings**, choose **Wi-Fi**, then **Connect with WPS**.
2. Press the WPS button on your router.
3. Press **OK** on the S1M. Within one minute the screen shows "Connected".

If WPS fails, move the S1M closer to the router and try again. **Forget network** in the same menu removes the saved network.

4. Add it to the app

In the app tap **Add device** and enter the **claim code** from the sticker in the box. The first account that adds an S1M owns it. Keep the sticker.

5. Add sensors and plugs

- **Sensors** (for example the T1H climate sensor) pair with the S1M in the app under Sensors. They talk to the S1M 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 S1M finds it within three minutes. Up to eight plugs per S1M.

6. 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 S1M keeps every setting itself and works on even when the Wi-Fi or the internet is down.

Everyday use

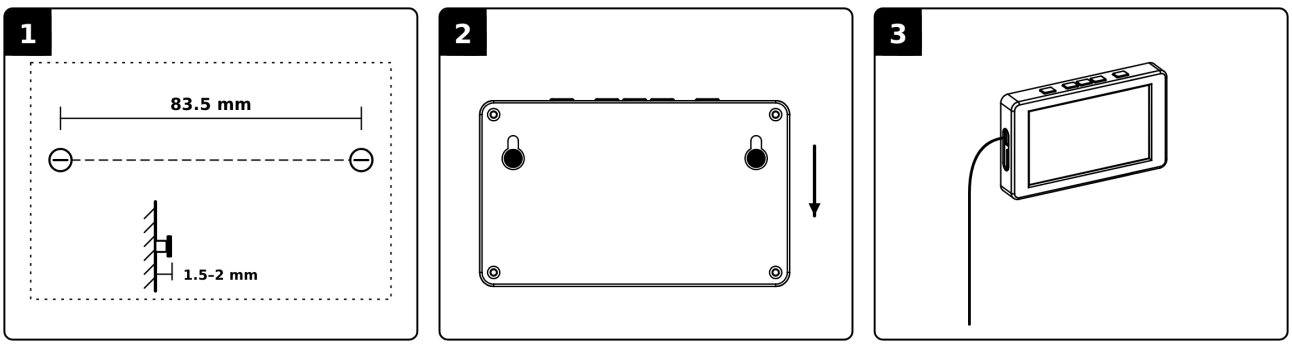
- The **home screen** shows the temperature and humidity of each sensor, the time and a box with alerts and reminders. An alert blinks until it is solved.
- **Feed** and **Clean** log what you did; the log appears in the app.
- The S1M checks the climate every 10 seconds and alerts the app once when a value leaves the target range or a sensor or plug stops answering.
- **Firmware updates** arrive over Wi-Fi by themselves. The S1M also passes updates on to its sensors. Do not unplug it while the screen says it is updating.

The microSD card

The S1M 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 S1M is unplugged.

Mounting on the wall

R3
R2



1. Put two screws into the wall, **83.5 mm apart**, level with each other. Head diameter 5.5 to 7.5 mm, shank up to 3.5 mm. Leave the heads 1.5 to 2 mm out of the wall.
2. Put the round openings of the keyholes over the heads and slide the S1M down.
3. Route the USB cable so nobody can trip over it or pull the S1M off the wall.

Mount the S1M away from water, spray and heat, and at least 20 cm from people who spend a long time nearby (for example a desk).

Care and maintenance

- Wipe the S1M 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 S1M, take out the four screws on the back, lift the back cover, 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 S1M for ten seconds and plug it in again.

Troubleshooting

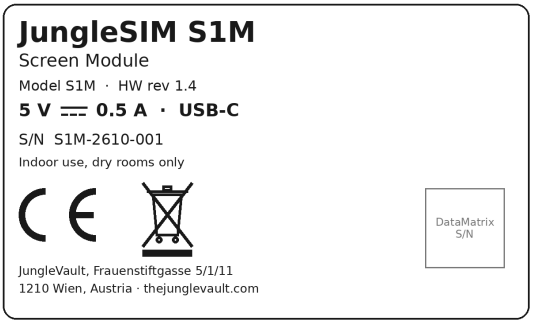
What you see	What to do
The screen stays blank	Check the power supply and the cable; use a 5 V supply that can give at least 1 A.
"No WiFi, running offline"	The S1M works with its saved settings. Check the router; repeat the WPS setup if the network changed.
A sensor shows no values	Check the sensor's 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
Screen	3.7 inch e-paper, black and white, 240 x 416 pixels
Clock	DS3231M real-time clock with CR2032 backup cell
Storage	microSD (FAT32, up to 32 GB)
Size	106.5 x 63.6 x 14.6 mm (buttons stand 0.6 mm proud)
Case	ASA plastic, 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 S1M 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: use **Forget network** and remove the S1M from your app account.

Declaration of conformity and warranty

Hereby, JungleVault declares that the radio equipment type JungleSIM S1M is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at: thejunglevault.com (S1M product page, Downloads).

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