

# SCR-Lite

SPECTRAL CORRELATION RECORDER

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## User Manual

Setup • Screens • Features • Data download • Troubleshooting

**PARANORMAL DEPARTMENT**

For firmware v10 • Manual revision 1.0 • October 2026

For entertainment purposes only. See "Please Read First".

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# Quick Start

These steps get you investigating in about two minutes. Everything is explained in detail later in this manual.

- 1 Charge it.** Plug a USB-C cable into the USB-C opening on the case and into a USB charger or computer. Charge fully before your first investigation.
- 2 Wake it up.** If the screen is dark, the SCR-Lite is asleep. Press firmly on the screen with a fingertip or fingernail. The **SCR-Lite / Paranormal Department** start-up screen appears.
- 3 Hold still.** When the screen says **Hold still...**, set the device down on a steady surface (or hold it very still). A 3-2-1 countdown runs, then a **Baseline sweep** takes about 10 seconds while the device learns what “normal” looks like in the room.
- 4 Watch the LIVE screen.** Five readings (EMF, TEMP, HUMID, PRESS, VIB) scroll on the left and the heat map shows on the right. Recording starts automatically; look for the red **REC** at the top right.
- 5 Tap MARK** (bottom right) any time something happens: a sound, a feeling, a question asked. The moment is saved in your session.
- 6 Tap SCREEN** (bottom left) to move between the five screens: LIVE → THERMAL → YES/NO → MARKS → SESSIONS.
- 7 New room? Tap RE-BASE** (bottom middle) and hold still for about 10 seconds so the device learns the new room.
- 8 Finished? Hold SCREEN for 5 seconds** until the countdown reaches zero. The session and its evidence report are saved and the device goes to sleep.

## TIP • TOUCH TIP

The touchscreen responds to **pressure**, not to light touches like a phone. Press firmly on the center of a button with a fingertip or fingernail.

| Button (bottom of screen)     | Tap                               | Press and hold                                                           |
|-------------------------------|-----------------------------------|--------------------------------------------------------------------------|
| SCREEN (left)                 | Go to the next screen             | 5 seconds: go to sleep                                                   |
| RE-BASE (middle)              | Start a new 10-second baseline    | (no hold action)                                                         |
| MARK (LIVE / THERMAL screens) | Save a marker                     | (no hold action)                                                         |
| ASK (YES/NO screen)           | Ask a question (10-second listen) | 1.5 seconds: clear the YES/NO tally                                      |
| CLEAR (MARKS screen)          | (no tap action)                   | 1.5 seconds: clear the marks list                                        |
| DELETE (SESSIONS screen)      | (no tap action)                   | 1.5 seconds, then hold again within 5 seconds: delete all older sessions |

# 1. Welcome

Thank you for choosing the **SCR-Lite Spectral Correlation Recorder** from Paranormal Department. The SCR-Lite is a handheld investigation recorder. It watches several kinds of sensors at the same time, puts them all on one screen, and saves everything to built-in memory so you can review your investigation later.

Most single-sensor gadgets react to anything. The SCR-Lite is built around **correlation**: it pays most attention when **two or more different sensors change at the same moment**. That helps you tell an interesting moment apart from an everyday blip, like a phone buzzing near an EMF meter.

## What the SCR-Lite measures

| Reading              | Shown as                                    | What it means in plain language                                                                                                           |
|----------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| EMF (magnetic field) | EMF, in $\mu\text{T}$ (micro-tesla)         | The strength of the magnetic field around the device. Electrical wiring, appliances, phones, magnets and metal objects all change it.     |
| Temperature          | TEMP, in $^{\circ}\text{F}$                 | The air temperature at the device.                                                                                                        |
| Humidity             | HUMID, in %                                 | How much moisture is in the air (relative humidity).                                                                                      |
| Air pressure         | PRESS, in hPa                               | Barometric (air) pressure. Doors, drafts, HVAC and weather can change it.                                                                 |
| Vibration            | VIB                                         | How much the device is moving or shaking. 0 means perfectly still; higher means more movement.                                            |
| Thermal heat camera  | 8 × 8 color heat map, in $^{\circ}\text{F}$ | A low-resolution heat picture of what the sensor is pointed at: blue is cooler, red is warmer. It shows warm and cold spots, not a photo. |

## About this manual

This manual is for the SCR-Lite running firmware **v10**. Screen pictures in this manual are illustrations: your readings, colors and numbers will be different.

## 2. Please Read First

### For entertainment purposes

#### WARNING • ENTERTAINMENT PURPOSES ONLY

The SCR-Lite is an entertainment and hobby device. It measures ordinary physical things (magnetic fields, temperature, humidity, air pressure, vibration and heat). **It cannot detect, prove or disprove ghosts, spirits or any paranormal activity.** Readings, alerts, Evidence scores, AUTO-MARKs, COLD SPOT alerts and YES/NO answers can all be caused by everyday things such as pets, people walking nearby, drafts, open doors and windows, heating and air conditioning, sunlight, electronics, phones, wiring, appliances, vehicles, weather changes, or the device simply being moved. Always look for a normal explanation first.

### Safety at a glance

- The SCR-Lite contains a **rechargeable lithium-polymer (LiPo) battery**. Do not crush, puncture, bend, open or heat the device, and never charge it if it is damaged, swollen or hot. See **Care and Safety** for full details.
- The SCR-Lite is **not waterproof**. Keep it dry and away from rain, snow, condensation and spills.
- Do not use the device in a way that puts you in danger. Never trespass, and never enter unsafe, abandoned or structurally unsound buildings.
- Keep the device and its cable away from small children and pets.

## 3. Features Overview

Here is every feature of your SCR-Lite at a glance. Each one has step-by-step instructions later in this manual (the section is listed in the right-hand column).

| Feature                | What it does                                                                                          | How-to section         |
|------------------------|-------------------------------------------------------------------------------------------------------|------------------------|
| Five live sensor lanes | EMF, temperature, humidity, air pressure and vibration, each with a live value and a scrolling trace. | LIVE screen            |
| Thermal heat map       | 8 × 8 heat camera showing warm and cold areas, with the lowest and highest temperature in °F.         | LIVE / THERMAL screens |
| Automatic baseline     | A “Hold still” countdown and 10-second baseline sweep run every time the device starts.               | Power On and Baseline  |
| RE-BASE                | Re-learns “normal” whenever you move to a new room.                                                   | Power On and Baseline  |

| Feature                     | What it does                                                                                                          | How-to section                    |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Baseline deltas             | Shows how far EMF, temperature and the hottest heat spot have moved from the baseline (for example +1.8 or -0.6).     | LIVE / THERMAL screens            |
| Peak-hold ticks             | A small white tick in each lane marks the highest reading since the last baseline.                                    | LIVE screen                       |
| Evidence score and hits     | A 0-100 score that only rises when two or more sensors change together; "hits" counts how many are changed right now. | Evidence Score                    |
| MARK                        | Tap to save a time-stamped marker with the sensor readings.                                                           | Marking Moments                   |
| AUTO-MARK                   | Saves a marker automatically when two or more sensor groups spike together (30-second cooldown).                      | Marking Moments                   |
| COLD SPOT alert             | A flashing banner when the heat camera sees a sudden temperature drop.                                                | COLD SPOT Alert                   |
| YES/NO (ASK) mode           | Ask a question; the device listens for 10 seconds and records a YES or NO.                                            | YES/NO Screen                     |
| MARKS list                  | Shows your most recent markers (up to 20 stored).                                                                     | MARKS Screen                      |
| Mood light                  | A colored status light: green (calm), yellow (moderate), red (high).                                                  | Mood Light                        |
| Automatic session recording | Saves readings every 2 seconds to built-in memory. No memory card needed.                                             | Sessions and Storage              |
| SESSIONS list               | Shows saved sessions with length and size, and lets you delete old ones.                                              | SESSIONS Screen                   |
| Evidence report             | A short summary of each session: peak score, biggest EMF spike, biggest temperature drop, and counts.                 | Evidence Reports                  |
| Battery gauge               | Battery percentage with a color bar, and a USB indicator.                                                             | Charging and Battery              |
| Sleep and wake              | Hold SCREEN for 5 seconds to sleep with the screen fully dark; press the screen to wake.                              | Sleep and Wake                    |
| USB data download           | Copy sessions and reports to a computer and open them in a spreadsheet.                                               | Getting Your Data onto a Computer |

## 4. What's in the Box

| Item                                                                           | Qty |
|--------------------------------------------------------------------------------|-----|
| SCR-Lite Spectral Correlation Recorder (rechargeable battery installed inside) | 1   |
| USB-C cable                                                                    | 1   |

### NOTE

This user manual is provided in digital form only. No printed manual or quick-start card is included in the box.

### TIP

Keep the box and packing material in case you ever need to send your SCR-Lite in for support.

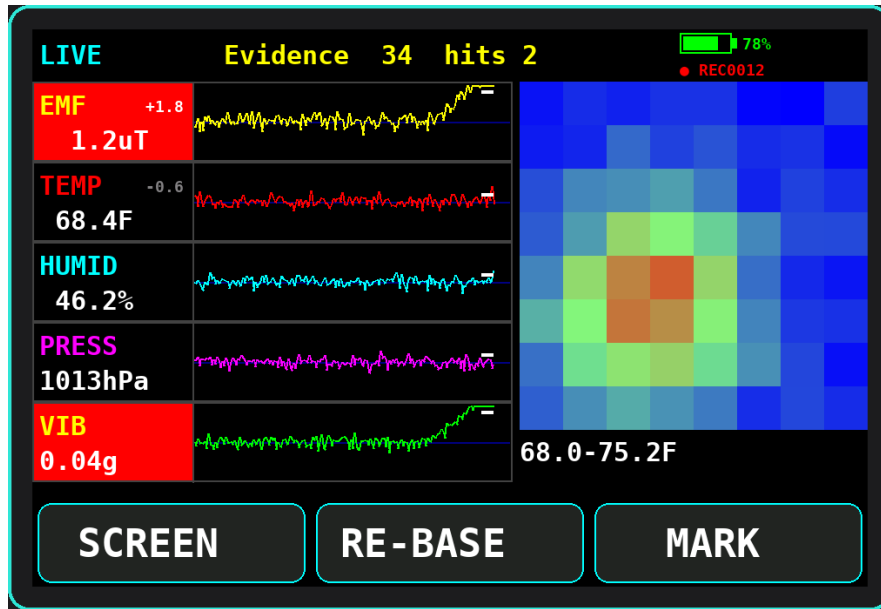
## 5. Getting to Know Your SCR-Lite

### The device

| Part                  | Where                                | What it is for                                                                                      |
|-----------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------|
| 3.5" touchscreen      | Front                                | Shows all readings and the touch buttons.                                                           |
| Touch bar             | Bottom edge of the screen            | Three large touch buttons. These are the only parts of the screen that respond to touch.            |
| USB-C opening         | [confirm location on case]           | Charging, and connecting to a computer to download your data.                                       |
| Thermal sensor window | Back of the case [confirm]           | The heat camera “looks” out of the back. Point the back of the device at the area you want to scan. |
| Mood light            | [confirm where the light is visible] | A small colored status light (see Mood Light).                                                      |

### The touch bar

Three buttons run along the bottom of every screen. The left and middle buttons always do the same thing. The right-hand button changes its name and job depending on which screen you are on.



The LIVE screen with the touch bar along the bottom (illustration).

| Button         | Screen(s)     | Tap                                                             | Press and hold                                                                                             |
|----------------|---------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| SCREEN         | All           | Next screen                                                     | Hold 5 s: sleep (a “Sleep in 5...1” countdown appears on the button)                                       |
| RE-BASE        | All           | Starts a new 10-second baseline sweep straight away             | —                                                                                                          |
| MARK           | LIVE, THERMAL | Saves a marker                                                  | —                                                                                                          |
| ASK            | YES/NO        | Asks a question (10-second listen). Shows “...” while listening | Hold 1.5 s: clears the YES/NO tally                                                                        |
| CLEAR          | MARKS         | —                                                               | Hold 1.5 s: clears the marks list                                                                          |
| DELETE / SURE? | SESSIONS      | —                                                               | Hold 1.5 s to arm (button changes to SURE?), then hold 1.5 s again within 5 s to delete all older sessions |

## Using the resistive touchscreen

Your SCR-Lite uses a **resistive** touchscreen. Unlike a phone, it responds to **pressure**, not skin contact.

- Press **firmly** in the **middle** of a button. A light brush may not register.
- Use a fingertip or a fingernail.
- Taps take effect when you **lift** your finger (except RE-BASE, which starts as soon as you press).
- For “hold” actions, keep steady pressure for the whole time.

**WARNING • CAUTION**

Do not use sharp or metal objects (knives, keys, pins) on the screen. They can scratch or damage it.

## 6. Charging and Battery

The SCR-Lite has a rechargeable 1200 mAh lithium-polymer (LiPo) battery sealed inside the case. You charge it through the USB-C opening.

### How to charge

- 1 Plug a USB-C cable into the USB-C opening on the SCR-Lite.
- 2 Plug the other end into a USB wall charger or a computer USB port.
- 3 Leave it to charge until full. You can keep using the device while it charges.
- 4 Unplug the cable when finished.

### Reading the battery gauge

The battery gauge is at the top right of every screen.

| What you see                         | What it means                                                                                                                                                                |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Green bar and a percentage           | More than 50% charge                                                                                                                                                         |
| Yellow bar                           | 20% to 50% charge                                                                                                                                                            |
| Red bar                              | Below 20%. Charge soon.                                                                                                                                                      |
| Red bar that flashes                 | Below 10%. Charge now.                                                                                                                                                       |
| Cyan lightning bolt and the word USB | The device is running from USB power. This can appear while the cable is plugged in and charging; the percentage is shown again once the device is running from the battery. |

**TIP**

Start every investigation with a full charge, and charge it again afterwards.

**WARNING • BATTERY SAFETY**

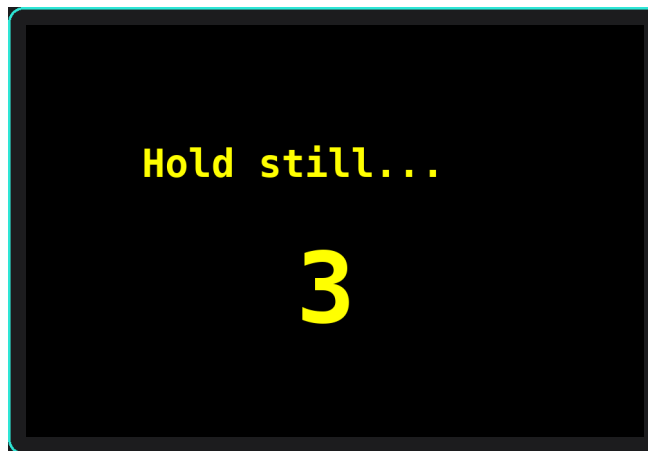
Charge only on a hard, non-flammable surface, away from anything that can burn, and do not leave it charging unattended or overnight. Stop charging and unplug immediately if the device gets hot, smells, swells or makes noise.

## 7. Power On and Baseline

### Turning on (waking up)

The SCR-Lite has **no power switch**. Instead, it sleeps and wakes: hold the **SCREEN** button for 5 seconds to put it to sleep, and press **firmly** on the screen to wake it. When the screen is fully dark, the SCR-Lite is asleep.

- 1 Press firmly anywhere on the screen. (If the battery is empty, plug in USB-C first.)
- 2 The start-up screen shows **SCR-Lite / Paranormal Department**. After waking from sleep it also shows **Woke up**.
- 3 After about 2-3 seconds the screen shows **Hold still...** with a 3-2-1 countdown. Set the device down on a steady surface now.
- 4 The **Baseline sweep** starts: “Hold still for 10 seconds” and a progress bar fills across the screen. The mood light blinks teal.
- 5 When the bar is full, the LIVE screen appears and a new recording session starts automatically.



The “Hold still” countdown at power-on (illustration).

### What is a baseline?

During the 10-second sweep the SCR-Lite learns what “normal” looks like in your location: the usual magnetic field, temperature, humidity, pressure, vibration and heat. It also learns how much each reading naturally wobbles. After that, it shows how far each reading moves away from normal and only counts a sensor as changed when it moves well outside its usual wobble.

## How to RE-BASE (new baseline)

- 1 Move to the new spot and set the device down (or hold it very still).
- 2 Tap **RE-BASE** (middle button). The baseline sweep starts at once.
- 3 Keep the device still for about 10 seconds until the progress bar is full.
- 4 You return to the LIVE screen. Peak-hold ticks are reset and the Evidence score starts fresh against the new baseline.

### TIP • WHEN TO RE-BASE

Tap RE-BASE every time you enter a new room, change floors, or move the device to a new position. A baseline taken in one room is not accurate in another.

### WARNING • KEEP IT STILL

Moving the device, talking on a phone next to it, or walking around it during the sweep makes the baseline less accurate. If that happens, simply tap RE-BASE again.

## 8. The Five Screens

Tap **SCREEN** to move through the screens in this order. After SESSIONS you return to LIVE. The screen name is shown at the top left.

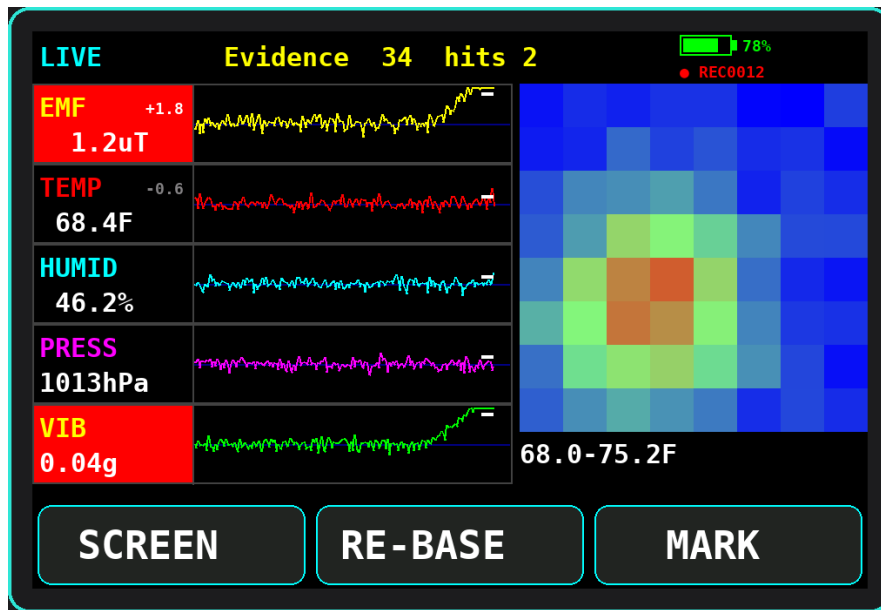
| # | Screen   | Use it to                                                                      |
|---|----------|--------------------------------------------------------------------------------|
| 1 | LIVE     | See all five sensors and the heat map at once. Your main investigation screen. |
| 2 | THERMAL  | See a bigger heat map plus how far things have moved from baseline.            |
| 3 | YES/NO   | Ask questions and get a YES or NO based on the sensors.                        |
| 4 | MARKS    | Review your recent markers.                                                    |
| 5 | SESSIONS | See saved sessions, storage space, and delete old sessions.                    |

### The header (top of every screen)

| Item             | Meaning                                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Screen name      | Which screen you are on (LIVE, THERMAL, YES/NO, MARKS, SESSIONS).                                                                     |
| Evidence (0–100) | The current Evidence score. Green when calm (20 or less), yellow when moderate (21–60), red when high (above 60). See Evidence Score. |
| hits             | How many sensors are outside their normal range right now.                                                                            |
| Battery gauge    | Charge level, or USB (see Charging and Battery).                                                                                      |

| Item          | Meaning                                                                 |
|---------------|-------------------------------------------------------------------------|
| ● REC0012     | Blinking red dot = recording. The number is the current session number. |
| NO LOG (grey) | Recording is not available. See Troubleshooting.                        |

## Screen 1: LIVE



LIVE screen (illustration). EMF and VIB are highlighted red because they have moved away from baseline.

The LIVE screen shows five stacked “lanes”, one per sensor, with the heat map on the right.

| What you see                          | What it means                                                                                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lane name and value (left)            | EMF ( $\mu$ T), TEMP ( $^{\circ}$ F), HUMID (%), PRESS (hPa) and VIB with the live reading. “--” means that sensor is not responding.                                                                            |
| Small +/- number next to EMF and TEMP | The <b>baseline delta</b> : how far the reading is from the baseline. For example, -0.6 on TEMP means 0.6 $^{\circ}$ F cooler than at baseline.                                                                  |
| Red lane label                        | That sensor has moved well outside its normal range (it is a “hit”).                                                                                                                                             |
| Scrolling trace                       | The colored line shows the change from baseline over the last few moments. The thin blue center line is the baseline. Up = higher than normal, down = lower. The trace draws from left to right and starts over. |
| White tick at the right of a lane     | The <b>peak-hold tick</b> : the highest reading in that lane since the last baseline. It resets when you RE-BASE.                                                                                                |
| Heat map (right)                      | 8 x 8 heat picture: blue = cooler, red = warmer. Colors scale automatically to what is in view.                                                                                                                  |
| Numbers under the heat map            | The coldest and hottest temperature in the heat map, in $^{\circ}$ F (for example 68.0-75.2F).                                                                                                                   |

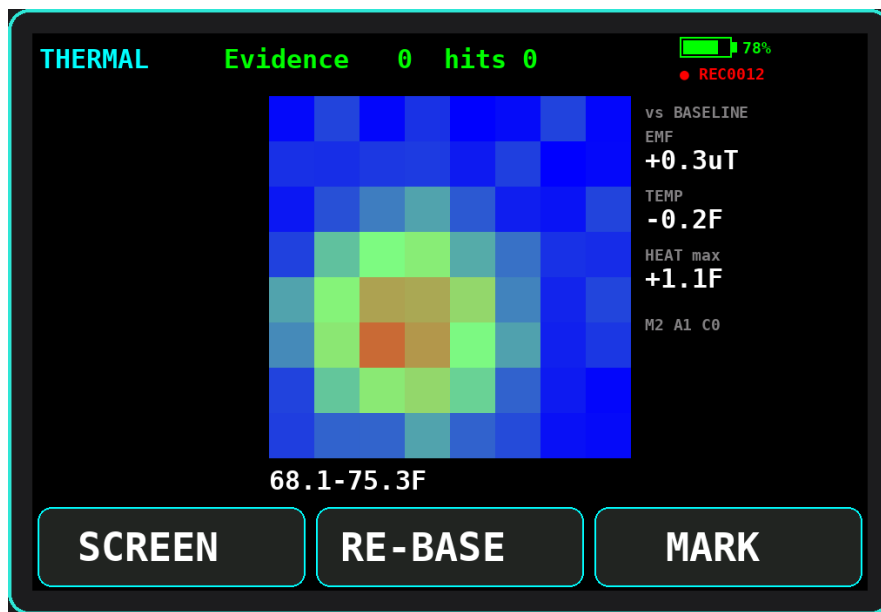
### How to use the LIVE screen:

- 1 Take a baseline (it runs automatically at power-on, or tap RE-BASE).
- 2 Place the device on a steady surface, or hold it still, with the back facing the area you want to watch.
- 3 Watch for lanes that turn red, traces that jump away from the center line, and the Evidence score.
- 4 Tap **MARK** whenever you want to note a moment.

#### TIP

Vibration (VIB) reacts to the device being moved or bumped, including when you press the screen. For the cleanest results, set the device down and leave it alone.

## Screen 2: THERMAL



THERMAL screen (illustration).

The THERMAL screen shows a larger heat map, its coldest and hottest temperatures, and a **vs BASELINE** column:

| Item     | Meaning                                                                                                 |
|----------|---------------------------------------------------------------------------------------------------------|
| EMF      | Change in magnetic field from baseline, in $\mu\text{T}$ .                                              |
| TEMP     | Change in air temperature from baseline, in $^{\circ}\text{F}$ .                                        |
| HEAT max | Change in the heat map's hottest spot compared with the heat camera's baseline, in $^{\circ}\text{F}$ . |
| M A C    | Session counts: M = manual MARKs, A = AUTO-MARKs, C = COLD SPOT alerts.                                 |

### How to scan with the THERMAL screen:

- 1 Tap SCREEN until THERMAL is shown.
- 2 Point the back of the device (the thermal sensor) at a wall, doorway, chair or corner.
- 3 Move slowly. Blue squares are the cooler parts of the view, red squares the warmer parts.
- 4 Tap **MARK** to save a marker if you see something interesting.

#### NOTE

The heat camera has 64 “pixels” (8 × 8), so it shows general warm and cold areas, not shapes or faces. People, pets, lamps, electronics, sunny windows, vents and cold glass all show up clearly.

### Screen 3: YES/NO (ASK mode)



YES/NO screen while listening (illustration).

YES/NO mode lets you ask a question out loud and see whether the sensors react during a 10-second listening window.

- 1 Tap SCREEN until YES/NO is shown.
- 2 Set the device down and keep still. Ask your question out loud.
- 3 Tap **ASK**. The screen shows **LISTENING**, the button shows “...”, and a countdown runs from 10 seconds.
- 4 After 10 seconds the answer appears: **YES** (green) if two or more sensors changed at the same time during the window, otherwise **NO** (red).

- 5 The running tally (YES n NO n) updates, and the answer is saved in your session.
- 6 To start a fresh tally, **hold ASK for 1.5 seconds**.

**TIP**

Stay still and quiet during the 10 seconds. Moving the device, walking nearby or touching the screen can cause a YES. Ask simple questions and allow a pause between them.

**WARNING • REMEMBER**

YES/NO answers are for entertainment only. They are based on ordinary sensor readings and can be caused by everyday things.

## Screen 4: MARKS



MARKS screen (illustration).

The MARKS screen lists your most recent markers, newest at the top. The SCR-Lite keeps the **20 most recent** markers in this list; the newest 8 fit on the screen.

| Part of a line    | Example  | Meaning                                                                                                |
|-------------------|----------|--------------------------------------------------------------------------------------------------------|
| # or A and number | #3 or A4 | # = a MARK you tapped. A = an AUTO-MARK the device made itself.                                        |
| Time              | 38:52    | Minutes:seconds since the device was switched on (session time).                                       |
| Sensors           | EMF VIB  | Which sensors were outside their normal range at that moment (HEAT = heat camera). “quiet” means none. |
| Temperature       | 71.3F    | The hottest temperature in the heat map at that moment.                                                |

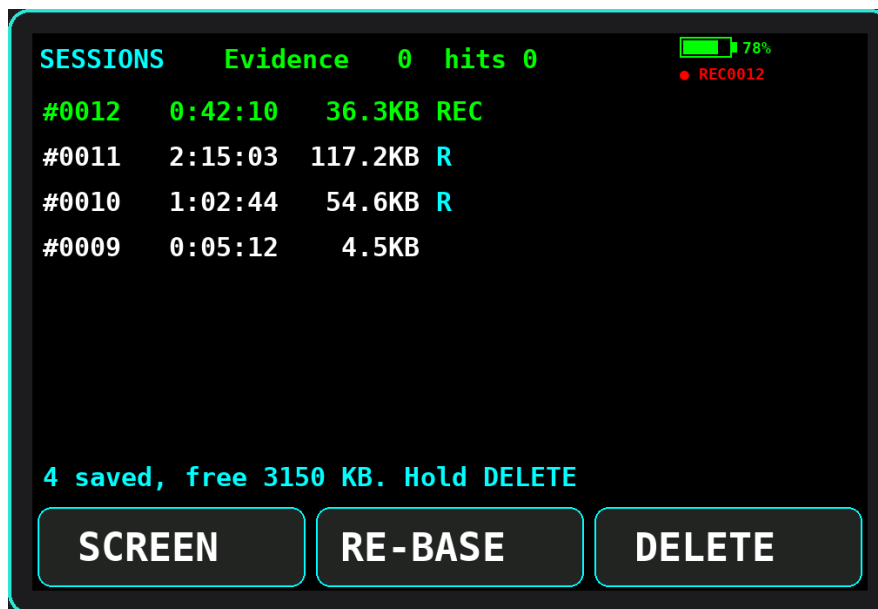
Line colors: **grey** = quiet, **yellow** = one sensor active, **red** = two or more sensors active.

**How to clear the MARKS list:** on the MARKS screen, **hold CLEAR for 1.5 seconds**. The list empties and numbering starts again from 1.

#### NOTE

The MARKS list on screen is emptied when the device goes to sleep or restarts. Your markers are still saved permanently in that session's recording and counted in its evidence report. Clearing the list does not remove them from the recording.

## Screen 5: SESSIONS



SESSIONS screen (illustration).

The SESSIONS screen lists your saved sessions, newest first (up to 8 on screen; “+N older” shows if there are more).

| Part of a line   | Example               | Meaning                                                     |
|------------------|-----------------------|-------------------------------------------------------------|
| Session number   | #0011                 | Use this number when downloading the session to a computer. |
| Length           | 2:15:03               | How long the session ran (hours:minutes:seconds).           |
| Size             | 117.2KB               | How much memory the session uses.                           |
| REC (green line) | REC                   | The session that is recording right now.                    |
| R (cyan)         | R                     | An evidence report has been saved for this session.         |
| Bottom line      | 4 saved, free 3150 KB | How many sessions are saved and how much memory is free.    |

## How to delete old sessions

### WARNING • DELETES EVERYTHING EXCEPT THE CURRENT SESSION

DELETE removes **all** saved sessions and their reports, except the one recording now. It cannot be undone. Download anything you want to keep first.

- 1 Tap SCREEN until SESSIONS is shown.
- 2 **Hold DELETE for 1.5 seconds.** The button changes to **SURE?** and the screen asks “Delete ALL sessions? Hold again”.
- 3 To confirm, **hold SURE? for 1.5 seconds again within 5 seconds.** All older sessions and reports are deleted.
- 4 To cancel, do nothing for 5 seconds, or tap SCREEN.

### NOTE

The session that is currently recording can never be deleted.

## 9. Evidence Score

The Evidence score (0-100) at the top of the screen is a simple way to see how “interesting” the current moment is.

- Each sensor (EMF, TEMP, HUMID, PRESS, VIB and the heat camera) is compared with the baseline. When a sensor moves well outside its normal wobble, it counts as a **hit**, and on the LIVE screen its lane label turns red.
- **False-alarm filter:** the score stays at 0 when only one sensor is changed. It only rises when **two or more** sensors are hits at the same time.
- The bigger the changes, the higher the score. The score rises quickly and then falls slowly, so you do not miss a short event.

| Score    | Color (header and mood light) | Meaning           |
|----------|-------------------------------|-------------------|
| 0 - 20   | Green                         | Calm              |
| 21 - 60  | Yellow                        | Moderate activity |
| 61 - 100 | Red                           | High activity     |

## 10. Marking Moments: MARK and AUTO-MARK

### MARK (manual)

A MARK saves the exact moment, with the sensor readings, into your session. Use it to note anything you hear, see or feel, or every time you ask a question.

- 1 Go to the LIVE or THERMAL screen.
- 2 Tap **MARK** (bottom right).
- 3 A banner shows **MARK #** for about 1 second, with the active sensors (or “quiet”), the Evidence score and the hottest heat-map temperature. The banner is red if any sensor was active and grey if all were quiet.
- 4 The mark appears in the MARKS list and is saved in your session.



MARK banner (illustration).

#### TIP • SYNC WITH YOUR VIDEO

Filming at the same time? Tap MARK while your camera is recording, and say “mark” out loud. Later you can line up the mark in your data with the moment in your video.

### AUTO-MARK (automatic)

The SCR-Lite marks moments by itself when **two or more of these sensor groups spike together**:

- EMF (magnetic field)
- Cold (the air temperature drops, or the heat camera sees a sudden cold drop)
- Vibration

- Heat camera (the hottest spot changes noticeably from baseline)

When this happens:

- 1 A purple **AUTO-MARK #** banner appears for about 1 second showing which groups spiked, and the mood light flashes purple.
- 2 The mark is added to the MARKS list with an **A** in front of its number, and saved in your session.



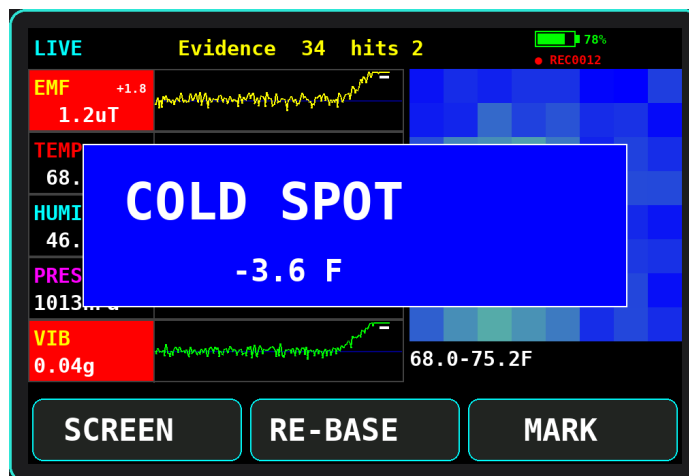
AUTO-MARK banner (illustration).

#### NOTE

To avoid repeat alerts, AUTO-MARK waits at least **30 seconds** before it can trigger again. It also stays quiet for the first 5 seconds after a baseline and needs the spike to last for a moment, which filters out single glitches. You do not need to do anything to turn AUTO-MARK on.

## 11. COLD SPOT Alert

The heat camera keeps watching the coldest spot in its view. If that spot suddenly gets **3 °F or more colder** than it was over the previous few seconds, the SCR-Lite raises a COLD SPOT alert.



COLD SPOT banner (illustration).

### What happens and what to do:

- 1 A blue and cyan **COLD SPOT** banner flashes for about a second, showing how many degrees it dropped (for example -3.6 F). The mood light flashes blue and cyan for about 3 seconds.
- 2 The alert is saved in your session and counted in the THERMAL screen (C) and the evidence report.
- 3 Keep the device still and watch the heat map and TEMP lane. Tap MARK to add your own note.
- 4 Check for normal causes: an open door or window, a draft, an air-conditioning vent, or the device being turned toward a cooler surface.

#### NOTE

COLD SPOT runs automatically after every baseline. To avoid repeated alerts, there are at least 15 seconds between alerts.

## 12. Mood Light

The mood light is a small colored status light that lets you see the device's state at a glance, even without reading the screen. It needs no setup.

| Light         | Meaning                                 |
|---------------|-----------------------------------------|
| Blinking teal | Baseline sweep in progress. Keep still. |
| Steady teal   | Starting up / no baseline yet.          |
| Green         | Calm (Evidence score 20 or less).       |
| Yellow        | Moderate (score 21-60).                 |

| Light                | Meaning                         |
|----------------------|---------------------------------|
| Red                  | High (score above 60).          |
| Flash of purple      | An AUTO-MARK was just recorded. |
| Flashing blue / cyan | COLD SPOT alert.                |
| Off                  | The device is asleep.           |

**TIP**

The light is deliberately dim so it does not spoil dark-adapted eyes or night-vision video.

## 13. Sessions and Storage

Every time the SCR-Lite starts up (or wakes from sleep), it begins a new numbered **session**. You do not need to press record.

- Readings are saved to the built-in memory **every 2 seconds**: Evidence score, EMF, temperature, humidity, pressure, vibration, the heat map's highest and lowest temperatures, and battery level.
- Events are saved too: every RE-BASE, MARK, AUTO-MARK, COLD SPOT alert, YES/NO answer and sleep.
- **No memory card is needed.** The memory holds roughly **35 to 38 hours** of recording in total.
- When memory gets full, the **oldest sessions are deleted automatically** (along with their reports) to make room. The current session is never deleted.

**TIP**

Download sessions you want to keep (see Getting Your Data onto a Computer) before memory fills up.

**NOTE**

The session number shown after REC (for example REC0012) is the number you will use to download that session later. It is a good idea to write it down with the location and date in your notes.

**WARNING • AVOID SUDDEN POWER LOSS**

Data is saved every few seconds. If the battery runs completely flat or the device loses power suddenly, the last few seconds may not be saved and no evidence report is created for that session. Going to sleep with the SCREEN button saves everything properly.

## 14. Evidence Reports

An evidence report is a short text summary of a session. A report is saved automatically every time you put the device to sleep with the SCREEN button. Sessions with a report show a cyan **R** on the SESSIONS screen.

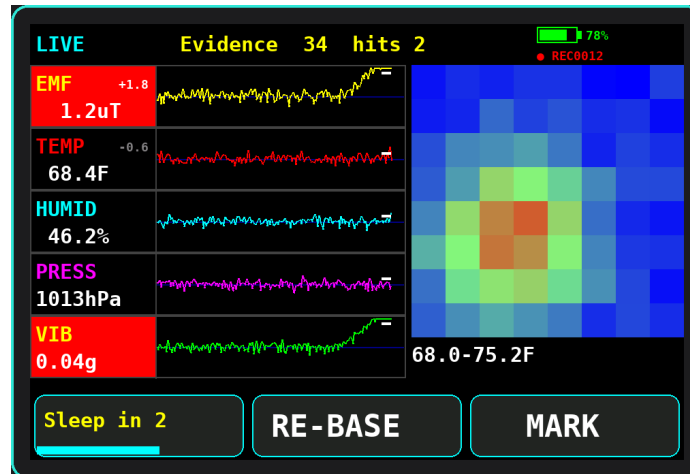
| Report line                     | Meaning                                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| session                         | The session number.                                                                                                     |
| duration                        | How long the session ran.                                                                                               |
| peak evidence score             | The highest Evidence score, and when it happened.                                                                       |
| biggest EMF spike               | The highest EMF reading, how far it was above baseline, and when.                                                       |
| biggest temp drop               | The largest temperature drop in °F, whether it came from the room sensor (ROOM) or the heat camera (THERMAL), and when. |
| marks / automarks / cold alerts | How many MARKs, AUTO-MARKs and COLD SPOT alerts happened.                                                               |

All times in reports are hours:minutes:seconds since the session started. To view a report, see the next section (commands REPORT and DUMPREPORT).

## 15. Sleep and Wake

### How to put the SCR-Lite to sleep

- 1 Press and **hold SCREEN** (bottom left).
- 2 After a moment the button shows **Sleep in 5** with a filling bar, counting down to 0. Keep holding.
- 3 At 0 the screen shows "Sleeping - tap screen to wake", the session and its evidence report are saved, and then the screen goes fully dark.
- 4 Lift your finger.



Hold SCREEN: the sleep countdown appears on the button (illustration).

#### NOTE

If you let go before the countdown finishes, the device does not sleep. Instead it treats it as a normal tap and moves to the next screen.

## How to wake it up

- 1 Press firmly anywhere on the dark screen.
- 2 The device starts up as normal: start-up screen with **Woke up**, the “Hold still” countdown, and a new baseline.
- 3 A **new session** starts recording.

#### TIP

Sleep uses very little power, but it still uses some. If you will not use the SCR-Lite for a while, charge it fully first and top it up regularly.

## 16. Getting Your Data onto a Computer

You can copy any saved session and its evidence report to a Windows or Mac computer over the USB-C cable and open it in a spreadsheet such as Microsoft Excel, Google Sheets, Apple Numbers or LibreOffice Calc. You will need a free “serial monitor” program. The steps below use the free **Arduino IDE** (from [arduino.cc](http://arduino.cc)), which includes one; any serial monitor or terminal program will work.

## Step A: Connect and open the serial monitor

- 1 Connect the SCR-Lite to your computer with a USB-C **data** cable. (Some cables only charge; if nothing shows up, try another cable.)
- 2 Open the serial monitor program. In Arduino IDE: choose the SCR-Lite's port under **Tools > Port**, then open **Tools > Serial Monitor**.
- 3 Set the speed (baud rate) to **115200**.
- 4 Set the line ending to **Newline** (or "Both NL & CR").
- 5 You will see lines of numbers scrolling. That is normal: it is the live data. Commands still work while it scrolls.

### NOTE

Some computers need a USB driver before the device shows up as a port. [\[driver instructions or link, if needed\]](#). The device may restart when the serial monitor connects; this is harmless and your saved sessions are kept (a new session simply starts).

## Step B: Type a command

Type a command in the message box and press Enter. Commands can be typed in upper or lower case. Replace **n** with a session number. You can leave out the leading zeros (for example, session #0011 is **11**).

| Command      | What it does                                                                                                  |
|--------------|---------------------------------------------------------------------------------------------------------------|
| LIST         | Lists every saved session file (for example s0011.csv) and its size in bytes, then the free and total memory. |
| DUMP n       | Prints the full recording of session n. Example: DUMP 11                                                      |
| REPORT       | Creates and prints an evidence report for the session recording right now.                                    |
| DUMPREPORT n | Prints the saved evidence report for session n. Example: DUMPREPORT 11                                        |
| DELALL       | Deletes all saved sessions and reports except the current one. <b>Cannot be undone.</b>                       |

### WARNING • CAREFUL

DELALL takes effect immediately with no confirmation. Make sure you have saved everything you want first.

## Step C: Save a session as a spreadsheet (.csv) file

- 1 Type **LIST** and press Enter to see which sessions are saved.
- 2 Type **DUMP** followed by the session number (for example **DUMP 11**) and press Enter.
- 3 The output starts with a line **BEGIN s0011.csv** and finishes with a line **END**. Long sessions take a while to print; wait for END.
- 4 Select and copy everything **between** the BEGIN and END lines. The first line you copy should start with **ms,type,score**. Do not include the BEGIN or END lines or any scrolling live-data lines.
- 5 Paste into a plain text editor (Notepad on Windows; on Mac, TextEdit set to **Format > Make Plain Text**).
- 6 Save the file with a name ending in **.csv**, for example **session0011.csv**.
- 7 Open the .csv file in your spreadsheet program. Each reading appears in its own row and column.

### TIP • LONG SESSIONS

For very long sessions, use a terminal program that can save (“capture” or “log”) its output straight to a text file, such as PuTTY (Windows) or CoolTerm (Windows and Mac). Start the capture, type DUMP n, wait for END, stop the capture, then delete the extra lines before BEGIN and after END.

## Step D: Save an evidence report

- 1 Type **DUMPREPORT** and the session number (for example **DUMPREPORT 11**) and press Enter. For the session recording right now, type **REPORT** instead.
- 2 Copy the lines between BEGIN and END.
- 3 Paste them into a text editor and save as a .txt file.

### NOTE

If you see “ERR no report0011.txt”, that session has no saved report (for example, it ended because the battery ran flat). Its .csv recording can still be downloaded with DUMP.

## Understanding the spreadsheet columns

Each row has a **type**. **D** rows are readings (one every 2 seconds). **E** rows are events; event rows leave the reading columns blank.

| Column | Meaning                                                                                                 |
|--------|---------------------------------------------------------------------------------------------------------|
| ms     | Time since the session started, in milliseconds (1,000 ms = 1 second). Divide by 60,000 to get minutes. |

| Column    | Meaning                                                                                                   |
|-----------|-----------------------------------------------------------------------------------------------------------|
| type      | D = data reading, E = event.                                                                              |
| score     | Evidence score (0-100).                                                                                   |
| emf_uT    | Magnetic field, in $\mu\text{T}$ .                                                                        |
| temp_F    | Air temperature, in $^{\circ}\text{F}$ .                                                                  |
| hum_pct   | Relative humidity, in %.                                                                                  |
| press_hPa | Air pressure, in hPa.                                                                                     |
| vib       | Vibration level (0 = still).                                                                              |
| tmax_F    | Hottest spot in the heat map, in $^{\circ}\text{F}$ .                                                     |
| tmin_F    | Coldest spot in the heat map, in $^{\circ}\text{F}$ .                                                     |
| batt_pct  | Battery percentage. -1 means it was running on USB power.                                                 |
| event     | For E rows: REBASE, MARK, AUTOMARK, COLD, ASK or SLEEP.                                                   |
| arg       | Extra detail for the event: the mark number, the cold drop (for example -3.6F), or the answer (YES / NO). |

**TIP**

In your spreadsheet, select the ms column and one reading column (such as emf\_uT) and insert a line chart to see the whole session as a graph. Filter the type column to E to list every event.

## 17. Tips for Better Investigations

- **Baseline every room.** Tap RE-BASE each time you move, and keep still for the full 10 seconds.
- **Set it down.** A steady surface gives cleaner vibration and heat readings than holding it.
- **Note the normal stuff.** Write down pets, people, HVAC, open windows, appliances, phones and weather.
- **Keep phones and electronics away** from the device. They change EMF readings.
- **Look for agreement.** A single sensor jumping is common. Several sensors changing together (a higher Evidence score or an AUTO-MARK) is more interesting, but still check for ordinary causes.
- **Mark often.** Tap MARK for every question, noise or feeling, and write the session number in your notes.
- **Sleep it when you are done** so the evidence report is saved.

## 18. Care and Safety

### Battery (lithium-polymer) safety

#### WARNING • READ BEFORE USE

The SCR-Lite contains a lithium-polymer battery. Misuse can cause overheating, fire or injury.

- Do not drop, crush, puncture, bend or open the case. There are no user-serviceable parts inside.
- Never charge or use the device if it is damaged, swollen, unusually hot, leaking or smells strange. Move it to a safe place away from anything flammable and contact support.
- Charge on a hard, non-flammable surface, away from bedding, paper and fabric. Do not charge unattended or overnight.
- Use a standard USB charger or computer port. Do not modify the cable or charger.
- Do not leave the device in a hot car, in direct sun, or near heaters or fire. Do not charge it when it is very cold or very hot. **[confirm charging and use temperature range]**
- Do not put the device in household trash. Recycle the battery and electronics according to your local rules.

### Water and moisture

#### WARNING • NOT WATERPROOF

The SCR-Lite is **not waterproof** or water-resistant. Keep it dry. Do not use it in rain or snow, near water, or where it can get wet. If it gets wet, stop using it, do not charge it, and contact support.

#### TIP

When moving from a cold outdoor location into a warm building, condensation can form. Keep the device in a closed bag until it warms up, then RE-BASE.

### Cleaning and storage

- Wipe with a soft, dry, lint-free cloth. Do not use sprays, solvents or water.
- Keep the thermal sensor window on the back clean and uncovered. Do not put stickers over it.
- Store in a cool, dry place. For long storage, charge it first and top it up regularly.
- Keep strong magnets away from the device; they affect EMF readings.

## General

- This device is not a toy. Keep it, its cable and any small parts away from young children and pets.
- Do not rely on the SCR-Lite for safety decisions, such as detecting gas, fire, electrical faults, carbon monoxide or structural problems.

# 19. Troubleshooting

| Problem                                                            | Likely cause                                                                 | What to do                                                                                                                         |
|--------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Screen is dark and nothing happens when pressed                    | Asleep with a very low or empty battery                                      | Charge with USB-C for a while, then press the screen firmly.                                                                       |
| Buttons do not respond, or respond only sometimes                  | Resistive screen needs firm pressure                                         | Press firmly in the center of the button with a fingertip or fingernail. Only the bottom touch bar responds.                       |
| Tapped SCREEN but nothing changed                                  | Screens change when you lift your finger                                     | Press, then lift. Do not hold for long, or the sleep countdown starts.                                                             |
| Pressed SCREEN and it moved to the next screen instead of sleeping | Let go before the 5-second countdown finished                                | Hold SCREEN steadily until the countdown reaches 0.                                                                                |
| Readings jump around or the Evidence score rises while I move      | Movement after the baseline                                                  | Set the device down and tap RE-BASE in each new spot.                                                                              |
| VIB lane keeps going red                                           | The device is being handled or bumped, or the surface vibrates               | Place it on a solid, still surface away from footsteps, appliances and speakers.                                                   |
| EMF is high or jumpy                                               | Nearby phone, electronics, wiring, magnets or metal                          | Move electronics away and RE-BASE. Keep your own phone at least an arm's length away.                                              |
| Lots of COLD SPOT alerts or AUTO-MARKs                             | Drafts, vents, open doors, or pointing the heat sensor at different surfaces | Close doors and windows, avoid vents, keep the device still, and RE-BASE.                                                          |
| A lane shows "--" or the heat map shows THERMAL MISSING            | A sensor is not responding                                                   | Put the device to sleep, wake it, and check again. If it continues, contact support.                                               |
| Header shows NO LOG instead of REC                                 | Built-in storage is not available                                            | Restart by sleeping and waking the device. If it continues, contact support. Readings still display, but they are not being saved. |
| Battery gauge shows USB with a lightning bolt                      | Running on USB power or charging                                             | Normal. The percentage returns once running from the battery.                                                                      |

| Problem                                       | Likely cause                                                                                    | What to do                                                                                                              |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Battery drains quickly                        | Older battery or a long time since the last full charge                                         | Charge fully before each use. If runtime stays short, contact support.                                                  |
| The MARKS list is empty after waking          | The on-screen list resets each session                                                          | Normal. Your marks are still in the saved session and its report.                                                       |
| An older session is missing                   | Memory was full, so the oldest sessions were deleted automatically, or DELETE / DELALL was used | Download sessions you want to keep regularly.                                                                           |
| Computer does not see the device              | Charge-only cable, missing USB driver, or wrong port                                            | Try a USB-C data cable and another USB port. <a href="#">[driver instructions or link, if needed]</a>                   |
| Serial monitor shows strange characters       | Wrong speed                                                                                     | Set the baud rate to 115200.                                                                                            |
| Commands do nothing                           | Line ending not set                                                                             | Set the line ending to Newline and press Enter after the command.                                                       |
| “ERR no s0011.csv” or “ERR no report0011.txt” | That session or report does not exist                                                           | Type LIST to see the saved session numbers. Check the number and try again.                                             |
| The device gets hot, swells or smells         | Battery problem                                                                                 | Stop using it right away. Unplug it, move it away from anything flammable, and contact support. Do not charge it again. |

## 20. Frequently Asked Questions

### Q. Does the SCR-Lite detect ghosts?

No. It measures ordinary physical conditions. It is an entertainment device and cannot prove or disprove paranormal activity. Many everyday things can cause readings and alerts.

### Q. Do I need a memory card?

No. Sessions are saved to built-in memory, about 35 to 38 hours in total.

### Q. Do I need to press record?

No. Recording starts automatically after the baseline every time the device starts or wakes. Look for the blinking red REC.

### Q. What happens when the memory is full?

The oldest sessions (and their reports) are deleted automatically to make room. The current session is never deleted.

**Q. Why does the Evidence score stay at 0 when one reading jumps?**

That is the false-alarm filter. The score only rises when two or more sensors change at the same time.

**Q. Can I turn off AUTO-MARK, COLD SPOT or the mood light?**

No. They are always on and need no setup.

**Q. Why is the temperature on the heat map different from TEMP?**

TEMP measures the air at the device. The heat map measures the surface temperature of whatever the thermal sensor is pointed at.

**Q. Can I use it while it charges?**

Yes. The battery gauge shows USB while it is plugged in.

**Q. Does the device keep the time of day?**

No. Times are measured from when the session started. Write the start time and session number in your notes to match them up later.

**Q. Are my marks lost when I clear the MARKS list or the device sleeps?**

No. Only the on-screen list is cleared. Every mark is saved in the session recording and counted in the report.

**Q. Can I delete just one session?**

Not on the device. DELETE (and the DELALL command) remove all sessions except the one recording now. Download what you want to keep first.

**Q. Is it waterproof?**

No. Keep it dry.

## 21. Technical Summary

| Item               | Detail                                                                                |
|--------------------|---------------------------------------------------------------------------------------|
| Controller         | ESP32 (Adafruit Feather ESP32 V2)                                                     |
| Display            | 3.5" color resistive touchscreen, 480 × 320 pixels                                    |
| EMF sensor         | LIS3MDL 3-axis magnetometer; total field shown in $\mu\text{T}$                       |
| Environment sensor | BME280: temperature ( $^{\circ}\text{F}$ ), relative humidity (%), air pressure (hPa) |
| Vibration sensor   | MPU-6050 motion sensor                                                                |
| Thermal sensor     | AMG8833 8 × 8 thermal array (64 points), shown in $^{\circ}\text{F}$                  |
| Status light       | Single multi-color LED (mood light)                                                   |
| Baseline sweep     | About 10 seconds (100 samples), after a 3-second countdown                            |
| Recording          | Every 2 seconds to built-in memory; no memory card                                    |
| Recording capacity | About 35–38 hours total; oldest sessions removed automatically                        |

| Item                    | Detail                                                           |
|-------------------------|------------------------------------------------------------------|
| Markers                 | MARK and AUTO-MARK; 20 most recent shown in the MARKS list       |
| AUTO-MARK cooldown      | 30 seconds                                                       |
| COLD SPOT trigger       | Heat-camera coldest spot drops 3 °F or more within a few seconds |
| YES/NO listening window | 10 seconds                                                       |
| Power                   | Internal rechargeable 1200 mAh LiPo battery; USB-C charging      |
| Data connection         | USB serial, 115200 baud; CSV and text output                     |
| Firmware                | v10                                                              |

## 22. Support and Legal

### Contact support

Questions or problems? We are happy to help. Please have your **serial number** (on the label, for example SCR-L-0001) ready.

|         |                                |
|---------|--------------------------------|
| Email   | paranormaldepartment@gmail.com |
| Website | paranormaldepartment.com       |

### Disclaimer

The SCR-Lite is sold for entertainment and hobby purposes only. It measures magnetic field, temperature, humidity, air pressure, vibration and infrared heat. It does not detect, measure or prove the existence of ghosts, spirits or any paranormal phenomena. Evidence scores, alerts, markers and YES/NO answers are produced by simple automatic rules applied to ordinary sensor readings and can be triggered by everyday causes such as pets, people, drafts, heating and cooling systems, electronics, wiring and movement of the device. It is not a scientific, medical, safety, or professional measuring instrument and must not be used to make safety decisions. Paranormal Department is not responsible for decisions made based on readings from this device. Always investigate safely, legally and with permission.

[Any additional legal / regulatory text, if required.]