Fraimic Logs Guide

How to access and use the /logs page for troubleshooting

Fraimic Engineering

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At a Glance

Your Fraimic frame keeps a running log of everything it does — booting up, connecting to WiFi, recording your voice, updating the display, and more. The **/logs page** is your window into all of this. It's a built-in diagnostic tool in the web portal that shows real-time firmware logs, useful for troubleshooting connection problems, checking battery status, or understanding why something isn't working as expected.

No special tools or apps required. Just open a browser, navigate to the logs page, and the frame tells you what's happening. Logs are color-coded by severity, organized by category, and designed with privacy in mind — sensitive information is automatically redacted before it's ever stored.

Accessing the Logs Page

It's easy to get there. While your Fraimic is running:

1. **Connect to your Fraimic's network** (either via your home WiFi or the `Fraimic_XXXXX` AP)
2. **Navigate to the portal**
   - On your home network: `http://192.168.1.XX/logs` (substitute your frame's IP address)
   - On the Fraimic AP: `http://192.168.4.1/logs`
3. **The logs page loads** with recent messages from your frame

That's it. No app required — just your browser.

What You'll See: Two Tiers of Logs



Figure 1: The /logs page — category tabs across the top, filter checkboxes, and color-coded log entries

Public Tier — Always Visible

When you first open the /logs page, you'll see **operational logs** that anyone can view:

- Boot-up progress and startup status
- LED color changes and states
- Battery percentage and whether it's charging
- WiFi connection attempts and results (without exposing passwords or network details)
- Recording started/completed
- Display refresh and image updates
- General system events and transitions

This tier is designed to be helpful without exposing anything sensitive.

Debug Tier — Password Protected

For deeper troubleshooting, there's a second tier of logs with more technical details. To unlock it:

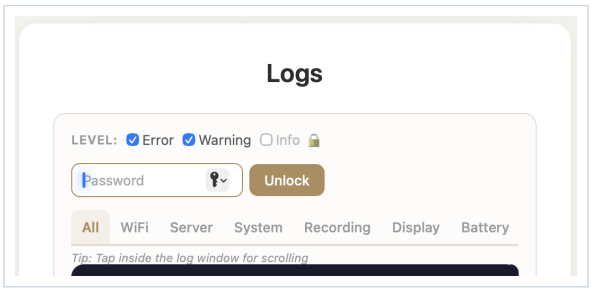


Figure 2: Debug unlock — the lock icon on the Info checkbox, and the password field that appears

1. Look for the **Info checkbox** near the top of the page (you'll notice it's locked with a lock icon)
2. Click it — a password field appears
3. **Enter the debug password** (this is provided separately by Fraimic support)
4. Click "Unlock"
5. The Info checkbox becomes enabled, and detailed debug logs appear

The debug password creates a **browser session** — it stays unlocked for as long as your browser tab is open. If you close the tab and return later, you'll need to unlock again.

Note: Even in debug mode, sensitive data is automatically redacted. Passwords, tokens, and full device identifiers are never shown — only safe, partially masked versions (e.g., the last 3 digits of a MAC address or the first letter of an email with *** obscuring the rest).

Filtering Logs by Level

Three checkboxes at the top let you control which types of messages you see:

Checkbox	Color	Shows
Error	Red	Problems that need attention
Warning	Yellow	Unusual conditions or potential issues
Info	Gray	General operational messages (requires debug unlock)

All three are checked by default. If a particular log level is cluttering the view, uncheck it to hide it. Your filter selections stick around for the session — they persist when you refresh the page.

Organizing by Category Tabs

Logs are grouped by **module** — the different parts of your frame that generate messages:

Tab	Shows
All	Every log from every module
WiFi	Connection attempts, AP mode, WiFi troubleshooting
Server	Device registration, server check-ins, API calls
System	Core firmware, sleep/wake, accelerometer activity
Recording	Voice recording, microphone, audio processing
Display	E-Ink display updates, image rendering, refresh cycles
Battery	Voltage readings, fuel gauge, charging status
OTA	Firmware update progress
Previous	Logs saved from the last session (before sleep/restart)

The **Previous tab** is special — it only appears if your frame saved logs before its last deep sleep or power-down. This is great for diagnosing issues that happened the last time you used it.

Your selected tab is remembered during your session, so it stays selected when you refresh.

Reading the Log Display

- **Dark theme** — logs appear in a dark scrollable area for easy reading
- **Color-coded by severity**:
  - Red = Errors
  - Yellow = Warnings
  - Light gray = Info messages
- **Timestamps** — seconds since the frame booted (resets on restart)
- **Monospace font** — easy to read and share
- **Auto-scroll** — the view scrolls to show the newest entries as they arrive

The Action Buttons

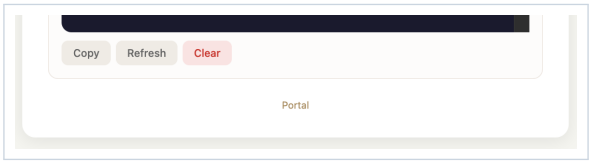


Figure 3: The Refresh, Copy, and Clear buttons at the bottom of the logs page

Refresh

The /logs page does **not** auto-refresh. To see new log entries:

- Tap the **Refresh** button
- Or pull-to-refresh on mobile (swipe down)

This reloads the page with the latest logs from your frame.

Copy

Tap **Copy** to copy all currently visible logs (filtered by your checkbox and tab selections) to your clipboard. The button briefly changes to "Copied!" to confirm.

Why this is useful: You can paste logs into an email, document, or support message. If you're troubleshooting with support, they can often pinpoint the issue from the logs.

Clear

Tap **Clear** to erase the live log buffer on your frame. A fresh entry (`Log buffer cleared via portal`) appears to confirm the action.

Important: This only clears the live logs in memory. Logs saved from the previous session (in the Previous tab) are stored separately and are not affected by Clear.

Privacy & Security

Your logs are designed with privacy in mind:

Automatic Redaction

All logs are **automatically sanitized** before they're stored, so sensitive patterns are never exposed:

- **MAC addresses & WiFi identifiers** → only the last 3 digits shown (e.g., `...D4:E5:F6`)
- **Email addresses** → first character + masked (e.g., `u***@gmail.com`)
- **Passwords, API keys, tokens** → completely hidden (shown as `[REDACTED]`)
- **WiFi network names (SSIDs)** → redacted in debug logs

Passwords are never logged, ever — not even in masked form.

Debug Access Is Authenticated

Only someone with the debug password can see detailed logs. Casual visitors to your portal see only the operational tier.

Session-Based

Debug access is stored as a **browser cookie** that exists only while your tab is open. Closing the browser resets you back to the public tier.

How Log Storage Works

- **Live buffer**: ~32 KB of logs held in your frame's RAM
- **Ring buffer**: When it fills up, oldest entries are automatically overwritten
- **Before sleep**: When your frame enters deep sleep or restarts, logs are automatically saved to flash storage
- **Previous logs**: These saved logs appear in the "Previous" tab the next time you open /logs

This means you can diagnose issues that happened even after the frame has restarted — the Previous tab preserves that history.

Troubleshooting Tips

"I don't see any logs"

- **Connection check** — Are you connected to the same network as your frame, or to the Fraimic_XXXXX AP?
- **Refresh the page** — Logs don't auto-load; tap Refresh
- **Wait a moment** — If the frame just booted, it takes a few seconds to generate initial logs

"The logs aren't detailed enough"

- **Unlock debug mode** — If you have the debug password, unlock the Info checkbox to see diagnostic details
- **Check all boxes** — Make sure Info, Warning, and Error are all checked (uncheck only to intentionally hide a level)
- **Try the All tab** — Switch from a category tab to "All" to see every module's output

"I want to share logs with support"

1. **Unlock debug if possible** — More detail helps support troubleshoot faster
2. **Select the relevant tab** — If it's a WiFi issue, use the WiFi tab; for display issues, use Display, etc.
3. **Tap Copy** — Copy the filtered logs to your clipboard
4. **Paste and send** — Email or message the logs to support

"The Previous tab is missing"

This only happens if your frame didn't save logs before its last restart. Common reasons:

- Frame lost power unexpectedly (battery died, cable pulled)
- Recent crash or hard reset
- First boot after factory reset

Don't worry — next time it restarts normally, the Previous tab will reappear.

"I entered the wrong debug password"

No problem. The page resets with an error indicator. Just try again — there's no lockout or waiting period.

Still need help? If the logs don't make sense or you're unsure what they mean, share them with Fraimic support along with a description of what you were trying to do. Logs are one of the best ways to diagnose device issues.

This guide covers Fraimic firmware v0.2.16. For the latest version, check with your Fraimic contact.