

SeaLabMOS LED Color/Blink Meanings and Troubleshooting Guide

(v3 2025.9.22)

On startup, the system will flash the onboard LED 5 times to denote the deviceMode

| Device Mode | Meaning | Color |
|-------------|-----------------------------|-----------------------------|
| 0 | Fast sampling every loop | Bright Green, LED always on |
| 1 | 1-minute mode | Orange |
| 2 | 10-minute mode | Yellow |
| 3 | Charge mode (LED always on) | Purple |
| 4 | Bottom Pressure Recorder | Cyan |
| 5 | Pressure Only Profile | Red |
| Other | Unknown mode | White |

Immediately afterwards, it will show the battery voltage with the LED using the following scale
If you see both colors (red and purple) it means the voltage is floating between the two

| Battery Voltage (V) | Meaning | Color |
|---------------------|---------------------------|--------|
| ≥ 4.0 | Full | Green |
| 3.8–3.6 | Mostly full | Cyan |
| 3.6–3.5 | Medium | Yellow |
| 3.5–3.35 | Low | Purple |
| 3.35–3.2 | Critical (no blink) | Red |
| < 3.2 | Dangerously low *FLASHES* | Red |

**Continual red flashes can happen after the before two light patterns
when the microSD card and/or sensor(s) is/are not detected**

If troubleshooting, it will output to serial via the USB-C at 115200 baud

You will know the SeaLabMOS system is ready to deploy once it has flashed the deviceMode and shown the battery voltage, then nothing further. If the sensor(s) initialize properly and the microSD card is detected and can be written to the LED is not utilized further to save power.

For any questions or issues, please call/text/email Sophie Scopazzi

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Email: sscopazzi@pm.me

Website: <https://www.aspectwave.io/>

Website: <https://www.sophiescopazzi.com/projects/sealabmos>

GitHub: <https://github.com/sscopazzi/SeaLabMOS>

This sensor has been provided with the expectation that one day sometime in the future the platform will be returned to Aspect Wave LLC. There is no set date. Once used to gathered data to your satisfaction the platform shall be returned and all data gathered shared.

Please return the sensor to Aspect Wave LLC, Attn: Sophie Scopazzi, 28 Latham Street, San Rafael, CA 94901