

STELLA-Q2 changes in version 3.0 release

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Code:

1. Includes date and time set within the main code. Removes the need to change codes to set the clock.
2. Clearer header labels using fewer abbreviations.
3. Will continue to function even if device modules are missing.
4. Full screen graph.
5. Switches record lamp to blue when in batch mode.
6. Shows batch and UID numbers in large type at the start of each batch
7. Shows remaining storage time in hours, days, or years. That time calculation is made assuming the instrument is set to continuous mode at the sampling interval and burst count set at the top of the software. Once you switch to burst mode, your data collection rate will be much lower, so the storage will last much longer.
8. A quick-start mode that can be set at the top of the code, to easily bypass the startup information screens.

Case:

1. Front access to the boot and reset buttons. Removes the need to open the instrument to load the UF2 file that carries the CircuitPython interpreter.
2. Scaffolding that is much easier to identify and to remove.
3. Clearer and more information on the front cover.
4. Shorter travel limit on the latch flexures. The new limit significantly reduces the likelihood of latch breakage.

Documentation:

1. Now includes a color lookup table for the spectral sensor, with wavelengths, swatches, HTML codes, photon frequencies, and energy per photon.
2. Clearer assembly instructions, with an updated diagram and new photos.
3. Clearer programming instructions.