

specbos 25x1 Firmware

Changelog

V2.0.0 (17.04.2026)

- Firmware for both specbos 2501 and 2511
- Power management revised
- It was not possible to cancel a measurement via the Bluetooth connection -> fixed

V1.6.2 (18.11.2025)

- Cancelling a reference measurement did not work properly -> fixed

V1.6.1 (22.10.2025)

- 5 pixel (approx. 3 nm) offset in S11155 (only occurred from V1.6.0 onwards) -> fixed

V1.6.0 (16.10.2025)

- New command *para:dista to set the measurement distance for radiant intensity
- Radiant intensity can now also be calculated by the firmware
- New command *calib:range outputs the calibrated wavelength range
- Adaptation of the integration time revised to avoid misadaptations
- Timing S11639 revised
- Timing and control S11155 revised
- HDC3021 (temperature/humidity sensor) implemented, including log function

V1.4.5 (17.06.2025)

- Command reception buffer is reset when a new connection is established
- Attachment number (*calib:acc:num) was not written correctly -> fixed

V1.4.4 (06.06.2025)

- Frequency measurement (*meas:flic) did not work properly -> fixed

V1.4.3 (03.06.2025)

- Power management and attachment detection implemented again via separate timer, as RTCC was not working reliably

V1.4.2 (02.04.2025)



Spectrometric solutions from components to systems



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- Battery measurement/power management revised again

V1.4.1 (20.03.2025)

- Battery measurement not functioning correctly -> fixed

V1.4.0 (28.02.2025)

- Stepper motor implemented as shutter, including configurable delays
- Dark compensation implemented -> dark values can be calculated, similar to specbos 1211
- Min and max temperatures are logged

V1.2.2 (20.11.2024)

- Initialization of ADC at firmware start revised, as otherwise signal could be disturbed

V1.2.0 (12.09.2024)

- Adaptation revised
- Power management revised
- Output of the radiometric spectrum in the restricted wavelength range did not work correctly -> fixed
- Support for up to 16 calibration files
- USB functions revised, resulting in better connection stability and improved error handling

V1.0.2 (28.05.2024)

- with sync mode switched on, the measurement could be overdriven if the integration time was shorter than the period duration -> fixed

V1.0.1 (23.05.2024)

- in special cases, the subsequent measurement could fail despite successful adaptation -> fixed

V1.0.0 (01.02.2024)

- First release of specbos 2501 firmware

