

Improvements to DAWN® (NEON™) Firmware

INTRODUCTION

This document highlights the most important enhancements, changes, and bug fixes made to the Wyatt Firmware. Please contact us at support@wyatt.com if you have any questions or suggestions.

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VERSION HISTORY

9.0.10

Improvements and Bug Fixes

- **Fixed:** Installer would sometimes hang when trying to find instruments on the network. (D-19715)
- **Fixed:** Installer would not properly report out of disk space error. (D-19559)
- **Fixed:** Some communication settings were not preserved after a reboot. (D-19163)

9.0.9

Improvements and Bug Fixes

- **Fixed:** The firmware updater has been made more reliable. (S-19000)
- **Added:** Added a SATA drive health monitor. (S-18673)

9.0.7

Improvements and Bug Fixes

- **Changed:** Optimized logging by the firmware. (D-18218)

9.0.5

Improvements and Bug Fixes

- **Added:** Support for ASTRA Security Pack lockout. (S-16753, D-17871)
- **Fixed:** Addressed an issue where the Warlock would not log all events. (D-17608)

- **Fixed:** Addressed an issue where a missing startupcheck parameter would cause a startup check error. (D-18298)
- **Fixed:** A statically set IP address will now always stick across reboots. (D-16753)

8.3.14

Improvements and Bug Fixes

- **Fixed:** Removed Overheat and COMET false alarms. (D-15437)
- **Fixed:** Addressed an issue where the power button would not register a short press. (D-17038)
- **Fixed:** Widened the tolerance for startupchecks that were sometimes failing due to the 8.3.9 update. (D-15576, D-17194)

8.3.9

Improvements and Bug Fixes

- **Added:** System temperature stabilization. Instruments with this feature installed will allow setting a specific system temperature through the settings page. (TT#20135)
- **Updated:** Startup checks have been improved to ensure accurate calibration at boot time. (S-13834, D-13595, D-14203, TT#20136)

8.2.21

Improvements and Bug Fixes

- **Added:** A security update to further ensure that your instrument is not susceptible to network-based malware. (TT#19698)

8.2.17

Improvements and Bug Fixes

- **Fixed:** Heated line overheat alarm will no longer trigger due to signal noise. (TT#19433)
- **Fixed:** Heated line and flow cell temperatures can be synchronized or controlled independently. (TT#19392)
- **Fixed:** Heated line controls are now appropriately hidden or displayed depending on instrument model. (TT#19363, 19347, 19342)
- **Fixed:** User is now able to take over front panel control during a collection via the touchscreen prompt. (TT#19383)
- **Fixed:** Analog output settings are now saved on instrument reboot. (TT#18861)

8.2.14

Improvements and Bug Fixes

- **Added:** Ability to lock the front panel interface via a lock button on the front panel. (TT#19151)

8.2.10

Improvements and Bug Fixes

- **Added:** A new dashboard and graph page for the ultraDAWN. (TT#18929)
- **Added:** 785 nm laser specific parameters for startup checks. (TT#18966)

8.2.6

Improvements and Bug Fixes

- **Added:** ultraDAWN (NEON) instrument type. (TT#18850)
- **Added:** Better logging for diagnosing startup check errors. (TT#18810)
- **Fixed:** The laser now turns back on after the hood is closed during a collection. (TT#18765)
- **Fixed:** Warn the user that the laser cannot be turned on for thirty seconds after DLS is turned off. (TT#18809)

Known Issues

- The warlock daemon stops working when the firmware boots up on rare occasions. (TT#18732)

8.2.5

Improvements and Bug Fixes

- **Added:** The front panel displays warnings when system temperature is too high. (S-05792)
- **Added:** The main graph on the front panel now has an auto-scale button. (S-05872)
- **Updated:** The graphs on the front panel automatically scroll when zoomed in if there are more than two hours of data. (S-05590)
- **Updated:** The health indicators are disabled when the laser interlock alarm is triggered and are reinitialized when the alarm is turned off. (D-05396)
- **Updated:** Certain variants of DAWN will skip startup checks that are not appropriate. (D-03254)
- **Fixed:** Addressed an issue where the front panel can start in landscape mode rather than portrait. (TT#18652)
- **Fixed:** Addressed an issue where the laser was turned on during startup even when the switch indicated it was idle. (TT#18631)
- **Fixed:** Addressed an issue where the log database can be corrupted when requested by

CheckPlus. (D-01505)

- **Fixed:** Addressed an issue where the daemon doesn't reconnect if any data acquisition devices are not detected. (D-03079)
- **Fixed:** Addressed an issue where the laser will go into idle mode when it is switched off instead of turning off. (D-03520)
- **Fixed:** Addressed an issue where the validation of custom axis scales can be wrong on the front panel when modified. (D-03321)
- **Fixed:** Addressed an issue where the values for parameters on the front panel can display the wrong data. (D-03253)

8.2.4

Improvements and Bug Fixes

- Add support for DAWN 8 (NEON) instruments.

Initial Release

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Please contact Wyatt Customer Support if you need more information about changes in earlier versions of the firmware.