



User Release Notes

SonoLab Version 10.1

April 2, 2025

Introduction to SonoLab 10.1 Software

SonoLab version 10.1 operates ML230 ultrasonicator instruments. SonoLab software is necessary to run these instruments. It is pre-installed on the computer that comes with the instrument.

Installation Guide and System Requirements

1. Computer Requirements

- Operating System: Windows 10 or 11
- Memory: 8 GB
- Disk: 500 GB

2. Instrument Firmware Requirement

NOTE: To check the latest firmware versions installed on your instrument, check the “About” tab on your SonoLab software.



CAUTION: Do not attempt to download SonoLab 10.1 if your instrument does not have compatible firmware versions installed.

- Controller Firmware Version: 9761 or higher

3. Steps for Installation

Please refer to the appropriate appendix of the ML230 Setup & Instruction Manual.

- The manual can be downloaded from here: https://www.covaris.com/product-inserts-user-manuals?filter_tag=Instruments
- The software can be downloaded from here: <https://www.covaris.com/m-series/>

For more information or questions, please contact technical support at techsupport@covaris.com or +1781.932.3959.

SonoLab 10.1.1.2630 Software

02 April 2025

Many new features and bug fixes

New Features:

1. Introducing predefined templates to assist with creating complex new treatment methods.
 - With this release, users can save time by selecting from available templates that simplify the process of creating commonly used method patterns. Predefined templates auto-populate with steps that are required to complete a certain type of treatment operation (e.g., when pulsing treatment multiple times with a delay between treatments). In previous releases, the user was required to input all steps manually whenever creating a new method.
2. Export methods, plate definitions, history, and log files.
 - Methods, plate definitions, history, and log files can now be written to a zip file for archival or transfer to other instruments.
3. Import methods and plate definitions.
 - Methods and plate definitions can be loaded from a zip file. These zip files could come from the Covaris web site or could have been exported from another instrument.
4. Reduce time to diagnose a problem by sending diagnostic data files to Covaris support.
 - With this release, customers can save time by creating a compressed data file, which includes all system and instrument information, and upload to Covaris support to efficiently diagnose any issues.
5. Handheld barcode reader support
6. Handheld RFID reader support
7. To account for decreasing water level, the instrument can add water during a method run.
 - If water levels drop while a method is running, SonoLab will add water until it reaches the target level. This feature is particularly important for methods that are long-running, use higher power, and/or run in a warm lab environment. This feature is off by default and must be enabled for each method.
8. Convenience of automatically moving the instrument to "load" position at the end of each method run.
 - When enabled, SonoLab will automatically move the instrument to the "load" position after completion of a method without having to take any extra steps or press any additional buttons.
9. Easily view and edit method creation notes.
 - Creation of method notes was already possible, but this new release allows method notes to be viewed at any point and by any user.
10. Admin screen allows setting Load position coordinates.
 - Simplifies changing Load position. Previously you had to manually edit the SonoLab configuration file.
11. Configure the system to be READY ahead of a scheduled run at the start of the day.
 - Previously, the Scheduler Ready action would degas the water, set the temperature to that specified by the scheduled method, and check water levels. Now it also homes the instrument to ensure proper calibration prior to beginning an important day of sample running.
12. Easily delete unwanted or unused methods
 - With this new release, users can delete unwanted methods on the user interface without having to leave SonoLab.
13. Quality check feature that notifies users when instrument board settings have been changed unexpectedly.
 - The board setting validation feature will notify users if it detects any instrument parameter changes and then notify the user before continuing.
14. Consumables with RFID can be used in up to 2 (by default) method runs.
15. The Refresh button has been removed.
 - SonoLab is now automatically updated when method or plate definition files are added, removed, or changed outside of SonoLab.
16. Easily configure automation systems using the SonoLab user interface.
 - Users can now set up and/or change their automation software configuration via the SonoLab 10 user interface.
17. Startup water behavior options are now: do nothing, fill to load, ask user

18. Allow expired consumables to run with user consent
19. Improved UI for consumable-based method selection
20. Warn user of UV light error conditions
21. Display message boxes with icon and color banner
22. Improvements to history display and load performance
23. Hide water level display when AFA is on
 - AFA ultrasonics confuse the ultrasonic water level sensor

Based on customer feedback, here are the bugs we've fixed!

1. Fill from empty bath will reach target water level
2. Fill from empty bath will now begin cooling immediately
3. Periodic fill will no longer cause the sample holder to be moved from Load position.

SonoLab 10.1.0.1395

29 March 2021

Various reliability and usability improvements.

New Features:

1. SonoLab will send a reset command to the RFID reader if it fails to read a tag (3x) when one is expected to be present
2. SonoLab will detect malfunctioning RFID readers that return a serial number of zero
3. The Y-axis of history detail graphs of AIP and temperature will start at zero

SonoLab 10.1.0.1380

18 December 2020

Various reliability and usability improvements.

New Features:

1. Option to shutdown Windows when exiting SonoLab
2. On-screen keyboard repeats when button is held down
3. Consumable-based method selection
4. Default user
5. Disable schedule editing when scheduler is off
6. Display IP addresses in About tab
7. Maximum AIP changed to 100 watts

Based on customer feedback, here are the bugs we've fixed!

1. If scheduler Off action runs, then the next Ready action will not run

SonoLab 10.1.0.1264

5 June 2020

Various reliability and usability improvements.

New Features:

1. Create prompt steps at any level
2. Option to fill bath upon startup

Based on customer feedback, here are the bugs we've fixed!

1. Y-axis dither parameter changed
 - Plate definitions created before 6/5/2020 are incompatible with 10.1.0.1264 and later versions of SonoLab 10.1
 - Be sure to use the most recent ML230 plate definitions
2. SonoLab.config XML comments were being deleted

SonoLab 10.1.0.1238

27 April 2020

Various reliability and usability improvements.

New Features:

1. Write UI actions to log file

SonoLab 10.1.0.1231

16 April 2020

Various reliability and usability improvements.

New Features:

1. Rearrangement of method steps via drag and drop
2. Option to copy dithering parameters to all process steps
3. Drain the bath if water level drops too low and periodic fill is off

Based on customer feedback, here are the bugs we've fixed!

1. Enforce max PIP and AIP values specified in plate definition
2. Changed max Y-axis dither radius from 5.0 to 4.5

SonoLab 10.1.0.1175

14 February 2020

Initial release

New Features:

1. Run/Pause/Resume/Abort methods
2. Display instrument status
3. Motion and water control
4. Display water level & temperature, method treatment time, and time to degas
5. Override temperature and degas
6. RFID-based consumable validation
7. Create and edit methods
8. Display method parameter limits
9. Create and edit scheduled operations
10. Periodic fill
11. View method history
12. View instrument information such as instrument type, serial numbers, versions, etc.
13. User login/logout
14. Administrative control over user accounts and other settings
15. On-screen keyboard for touch-screen support
16. Launch SonoLab upon power-on
17. API automation support

Support and Technical Assistance

Tech Support: Ongoing assistance with the operation or application of the equipment and/or troubleshooting is provided via:

- **Telephone:**
 - US & APAC: +1 781.932.3959, during the hours of 8:30 a.m. to 5:00 p.m. (EST), Monday through Friday
 - EU: +44 (0) 845 872 0100, during the hours of 9:00 a.m. to 5:00 p.m. (GMT), Monday through Friday
- **E-mail:**
 - US Customer Service: customerservice@covaris.com
 - EU/UK Customer Service: emeacustomerservice@covaris.com
 - APAC Customer Service: APACcustomerservice@covaris.com
 - Service and Instrumentation: techsupport@covaris.com
 - Applications: applicationsupport@covaris.com

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