



User Release Notes

SonoLab Version 8.0

July 9, 2025

Introduction to SonoLab 8.0 Software

SonoLab version 8.0 operates the ME220 Focused-ultrasonicator Instrument. SonoLab software is necessary to run these Instruments. It is pre-installed on the computer that comes with the Instrument.

Installation Guide/System Requirements

Steps for Installation

Please refer to the appropriate appendix of the ME220 Setup & Instruction Manual (https://www.covaris.com/wp/wp-content/uploads/resources_pdf/pn_010325.pdf) or contact Covaris technical support (techsupport@covaris.com) for installation instructions.

System Requirements

- Operating System: Microsoft Windows 10 or higher
- Memory: 8 GB or more
- Disk: 100 GB available
- A USB 2 or 3 port must be available

For more information or questions, please contact technical support at techsupport@covaris.com or +1 781.932.3959.

SonoLab 8.0.3.2054

July 9, 2025 | Ninth Release

We have resolved the following issues based on customer feedback:

- Fixed rare water level adjustment timeouts that were causing method failures
- Removed erroneous drain prompt during shutdown when instrument is not connected
- Fixed erroneous pausing of methods which showed a blank message

SonoLab 8.0.3.2041

January 7, 2025 | Eighth Release

We have resolved the following issues based on customer feedback:

- Fixed intermittent water level adjustment timeouts that were causing method failures
- Resolved false failure messages during homing operations (system now correctly reports successful homing)
- Corrected false failure messages during bath drainage when exiting SonoLab
- Improved water level adjustment by removing target level range centering logic

SonoLab 8.0.3.2031

September 20, 2024 | Seventh Release

Based on customer feedback, here are the bugs we've fixed in Version 8.0.3.2031 (Seventh release of SonoLab 8.0):

- Water fill operations will no longer time out prematurely.
 - Under certain uncommon conditions the previous version of SonoLab would abort a water level adjust operation. This would happen if the water level was changing very slowly. This has been corrected.
- Water level will fill to center of target level range.
 - Previously the fill/drain would stop when the upper or lower value was reached. This helps ensure that the water level is maintained within range during a method run.
- Methods will no longer fail while adjusting water level.
 - Instrument communications performance has been improved, which will prevent such failures.
- Error dialog will appear when unable to drain bath.
 - An error dialog is now shown when the system is unable to drain the water bath.

- Motion status log files will appear in Logs folder.
- Motion status log files are now written to the correct folder.

SonoLab 8.0.3.2004

April 5, 2024 | Sixth Release

Based on customer feedback, here are the bugs we've fixed in Version 8.0.3.2004 (Sixth release of SonoLab 8.0):

- Water fill operation times out prematurely.
- Waste valve opened/closed repeatedly when water pressure is too high.
- Double-clicking "Water Works" button crashes SonoLab.

SonoLab 8.0.3.1014

November 22, 2023 | Fifth Release

Based on customer feedback, here are the bugs we've fixed in Version 8.0.3.1014 (Fifth release of SonoLab 8.0):

- Water fill operation could cause water overflow if water level sensor is malfunctioning.
 - Water fill operation is now interrupted if water level isn't changing.
- Cannot add dithering to a process that is under a Repeat step.
- SonoLab installer does not install .NET 4.6 framework if not installed.
- Water Fill error is not generating messaging or logging when using the Water Control Fill/Empty buttons.
- SonoLab displays incorrect version number
- Double-clicking "System Status" button crashes SonoLab.

SonoLab 8.0.3.1001

June 28, 2021 | Fourth Release

Based on customer feedback, here are the bugs we've fixed in Version 8.0.3.1001 (Fourth release of SonoLab 8.0):

- Communication with hardware causes method to fail.
- Adding a second process step to method using a 4-strip causes SonoLab to crash.
- Status light blinks on and off when water supply bottle is removed.
- Can save method with Process step that has no Treatment steps.
 - Must be second step within a Repeat step.
- SonoLab incorrectly reports a connection failure on startup.

SonoLab 8.0.2.1017

November 22, 2023 | Third Release

Here is what's new in Version 8.0.2.1017:

- Improved water level control.
 - A new algorithm has been implemented to control water level to within +/- 0.3 mm of the specified water level.
- Adjust water level at Run position.
 - Rack definitions can now have optional RunWaterLevel and LoadWaterLevel parameters. When both are supplied, then SonoLab first raises the rack to the Load position and adjusts water level to the LoadWaterLevel value. Then SonoLab lowers the rack to the Run position and adjusts water level to the RunWaterLevel value.
 - Use of these parameters results in more precise control of water level.
 - The LoadWaterLevel value will always be less than the RunWaterLevel. LoadWaterLevel is used to ensure that the water level is not too high when the rack is lowered to the Run position.
- Adjust water level at Load position.
 - Previous versions of SonoLab have adjusted water level with the rack raised to the Load position. This is controlled via the WaterLevel parameter in the rack definition file.

- This capability is maintained in 8.0.2 for compatibility with existing rack definition files.
- When a rack definition file has all three parameters, the RunWaterLevel and LoadWaterLevel parameters will be used.

SonoLab 8.0.1.1005

October 04, 2018 | Second Release

Here is what's new in Version 8.0.1.1005:

- Repeat Steps.
 - Repeat Steps contain one or more child steps and an Iterations count, specifying the number of repetitions.
 - Repeat Steps can be created at the top level, and can contain one or more Process Steps.
 - Repeat Steps can be created as a child of a Process Step, and can contain one or more Treatment, Delay and Prompt steps.
- Enter decimal numbers in Duration and Peak Power method editor parameters.
 - Can enter values with a single decimal place.

SonoLab 8.0.0.373

June 15, 2016 | Initial Release

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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