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*Release Notes*

**SonoLab Version 8.0.2**

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14 February 2019

## ***Introduction to SonoLab 8.0.2 Software***

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SonoLab version 8.0.2 operates the following Covaris instruments:

ME220

SonoLab software is necessary to run any of these Covaris instruments and will be provided at time of purchase. A laptop containing the software is sold with the instrument and connected via USB. The user can create, edit and save methods with varying acoustic treatments modifying duty factor, cycles per burst, peak incident power, duration, and other parameters based on the protocol being applied. SonoLab software gives a real-time display of bath temperature, average power and treatment time remaining. It also controls all hardware running and setting water temperature, degassing and acoustic treatments.

## ***Installation Guide/System Requirements***

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Steps for Install:

Please refer to the appropriate appendix of the ME220 User Manual or contact Covaris technical support for installation instructions.

System Requirements:

Operating System Compatibility: Microsoft Windows 7 or Windows 10.

A USB 2.0 or 3.0 communications port must be available.

For more information or questions please contact:

[techsupport@covaris.com](mailto:techsupport@covaris.com)

[781-932-3959](tel:781-932-3959)

## *Version Changes*

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### Version 8.0.2.1017

February 06, 2018

#### New Features

- 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 then the RunWaterLevel and LoadWaterLevel parameters will be used.

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### Version 8.0.1.1005

October 04, 2018

#### New Features

- 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

Initial release