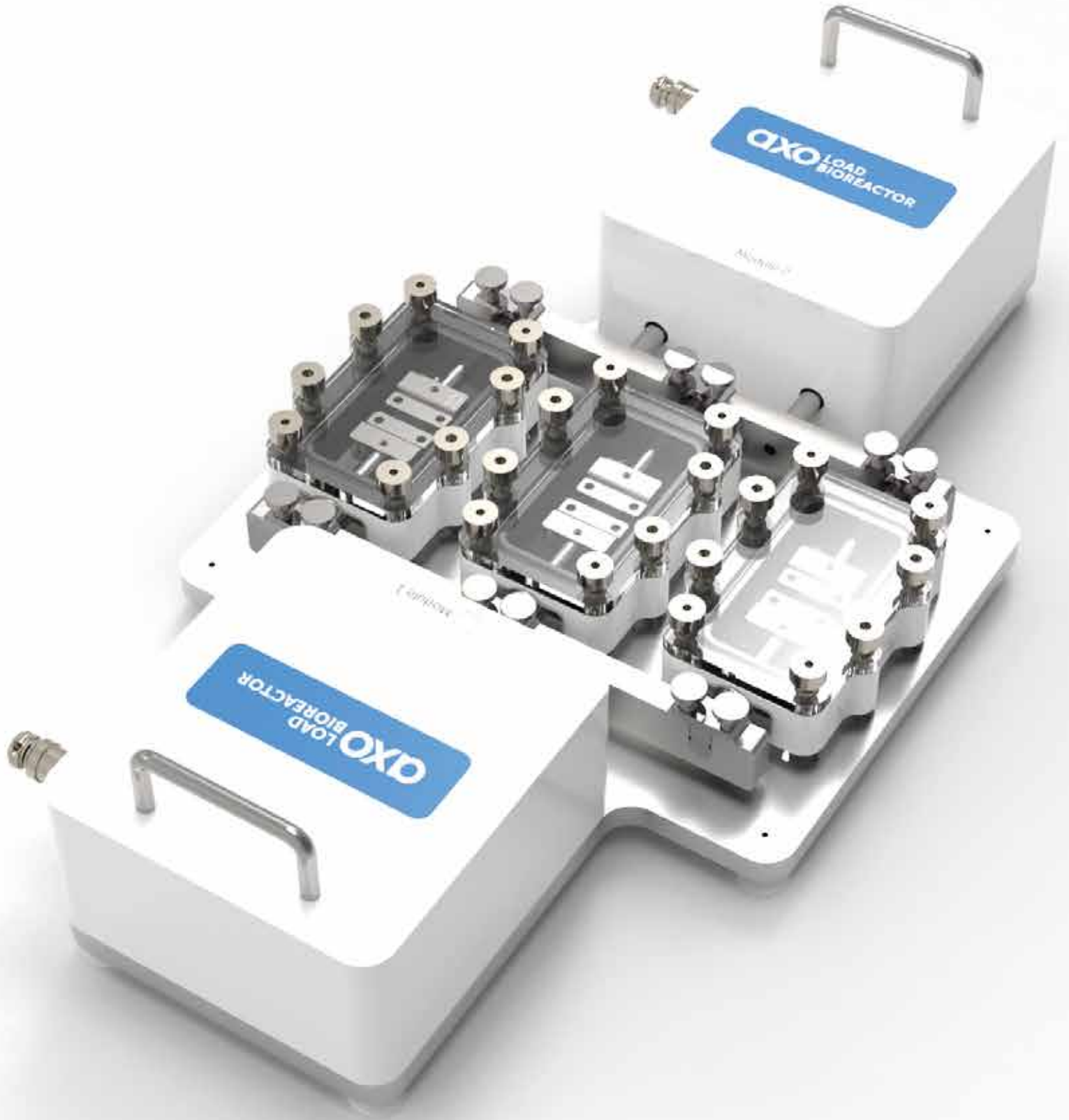


axo

LOAD BIOREACTOR



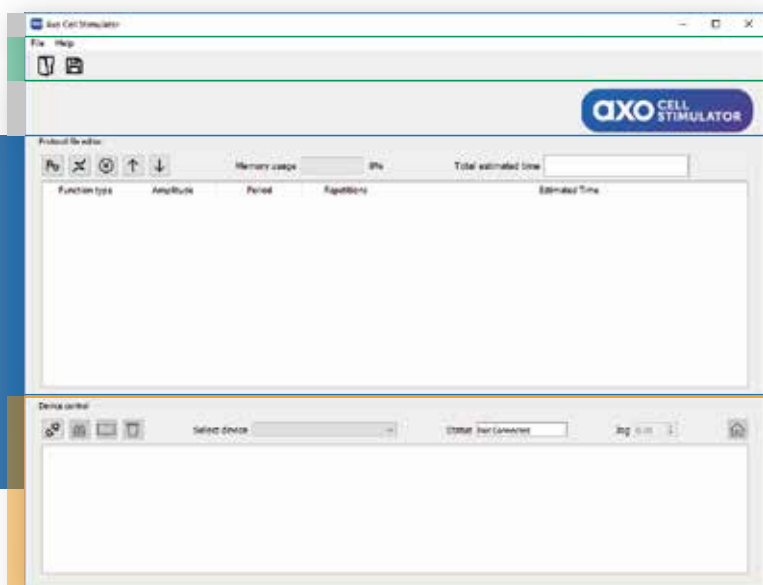


GENERAL INFORMATION

Axo Load Bioreactor is a precision instrument developed for deforming bioprinted tissues, flexible membranes and 3D matrices in a sterile fluid environment. This device is capable of uniaxial deformations on flexible cell-seeded substrates or scaffolds. It has an onboard actuator and control board to enable it to run independent of a computer in an environment-controlled incubator.

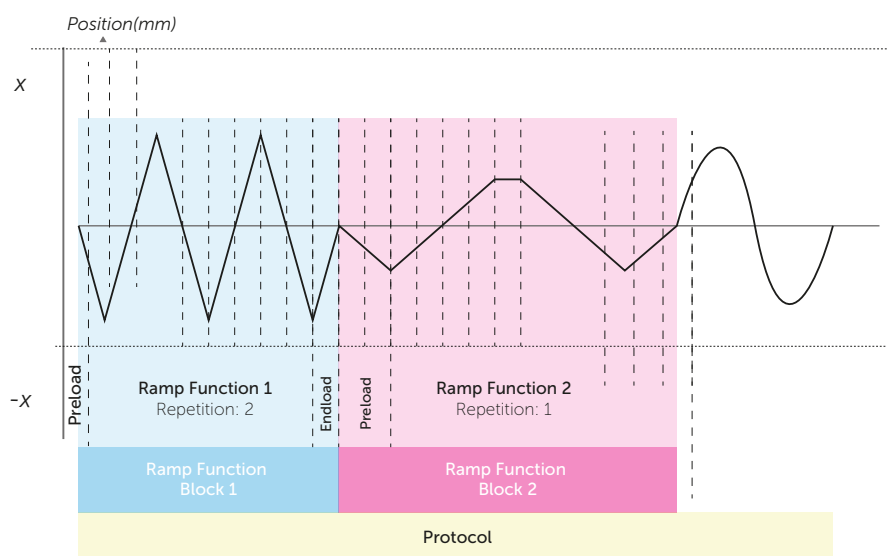


SOFTWARE



Axo Load Bioreactor has a unique software that enables have total control over the machine. You can have clear graphs of your work by using this easy to navigate software.

File Tab Protocol File Editor Device Control

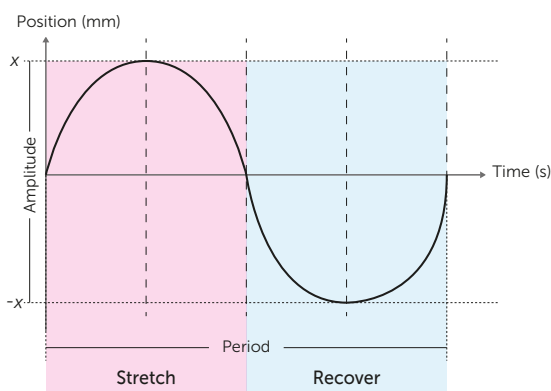


Block: Block is the repeating function on a protocol.

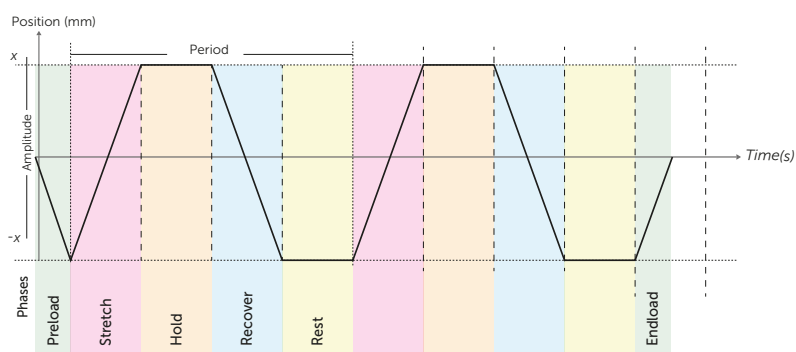
Protocol: Protocol is the array of test blocks.

The ramp function applies the displacement at a constant velocity.

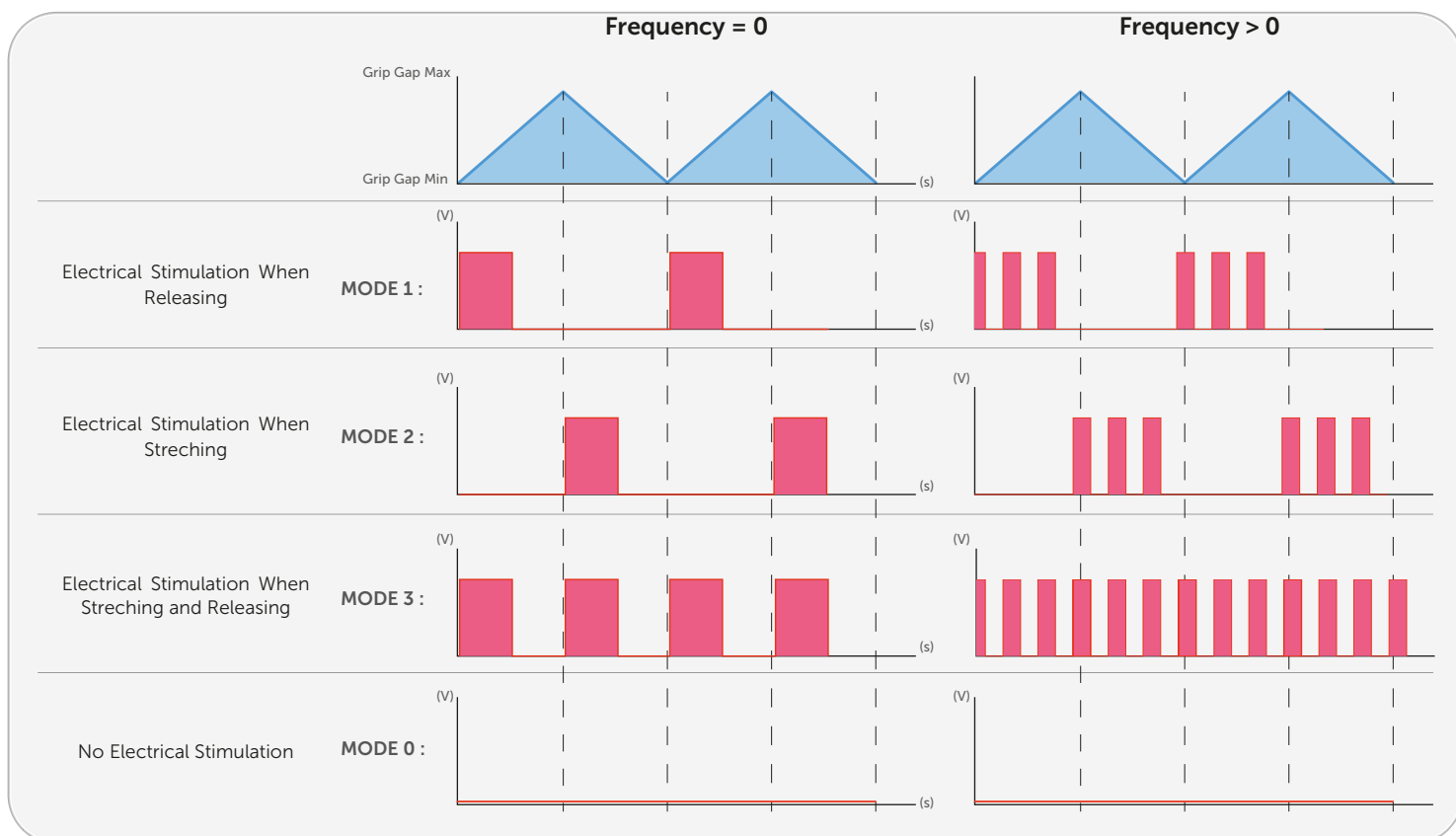
The sine function applies the displacement according to a sinusoid with the desired displacement magnitude and duration.



Amplitude(mm): $2x$ Period(s): $4t$ Repetition Count: 1



Amplitude(mm): $2x$, Stretch(s): t , Hold(s): t , Recover(s): t , Rest(s): t , Repetition Count: 2



Axo Load Bioreactor can stimulate specimen with electrical current. Users can determinate when to apply current to specimen through process of testing or experiment .

HARDWARE

<i>Stimulation</i>	Uniaxial
<i>Cell Culture Chamber</i>	Up to 3
<i>Maximum Strain</i>	>%100
<i>Maximum Velocity</i>	10 mm/s
<i>Cell-Contacting Components</i>	Autoclavable Materials
<i>Product Consuction</i>	Stainless Steel
<i>Standalone Working</i>	Available
<i>Connection</i>	USB
<i>Electrical Stimulation</i>	Available
<i>Output Voltage Range</i>	0 - 30 V
<i>Output Current Range</i>	0 - 5 A

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BIOSYSTEMS

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