

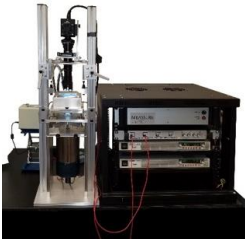


Features and Benefits

- **Improving predictive value of in vitro research to predict in vivo behavior**
- Concurrent and independent control of **bio-mechanics, electrophysiology, and imaging**
- **Normalization** of post-stretch cellular electrophysiology to pre-stretch level (build-in control)
- Image cells **before, during, and after stretching**
- **Physiologically relevant** bio-mechanical environment
- **Convenient, time saving, customizable**
- **Applications:** e.g., neurotrauma research and drug screening, tissue engineering, regenerative medicine, organ-on-a-chip models, mechanobiology

Technical Specifications			
Model	MEASSuRE-Mini	MEASSuRE-Premium	MEASSuRE-X
			
Mechanics Module	Mini	Premium	X
Maximum strain (radial)	20%	50%	50%
Maximum strain rate	1/s	50/s	80/s
Strain profiles	radial, linear (75%), custom		
Strain patterns	impulse, square, cyclic, symmetric, asymmetric, customizable		
Stroke (travel)	6mm	25mm	32mm
Smallest motion	1.6µm	6µm	8µm
Power (voltage, current)	150W (48V, 3.2A)	500W (48V, 10.2A)	2000W (130V, 15A)
Space	incubator	benchtop	benchtop
Imaging Module	same options for all models		
Camera	most cameras with F- or C-mount can be used		
Magnification	up to 16x		
Positioning	micro-adjustable platform		
Modality	optical and fluorescence imaging		
Electrophysiology Module	same options for all models		
Electrophysiology	recording and stimulation		
Channels	120 (4 ports with 30 channels each)		
Sampling rate	20kHz, 25kHz, 30kHz		
Stimulation shape	monophasic, biphasic, triphasic		
Stimulation current	10nA to 2.55mA		
Stimulation electrodes	any electrode or combination of electrodes can be used to stimulate		
Stimulation triggers	keystroke, analog, digital		

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Product information
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