



Features and Benefits

- **Recording & stimulation** of extracellular electrophysiological activity before, during and after stretching
- **Physiologically relevant cellular environment** by using soft and elastically stretchable materials
- **Apply biomechanical cues** to reproduce in vivo environment
- **Normalization** of post-stretch electrophysiology to pre-stretch level
- **Transparent substrate** to view specimens under a microscope
- **Compatibility** with BMSEED and MultiChannel Systems data acquisition system

Technical Specifications	
Temperature Compatibility	10-60°C
Overall Dimensions (W × D × H)	49 mm × 49 mm × 1.25 mm
Substrate and Encapsulation Material	Polydimethylsiloxane (PDMS)
Electrode Material	Gold (Au) coated with platinum black (lead-free)
Contact Pad Material	Gold coated Nickel
Well Diameter and Material	25.4 mm (1 inch), polycarbonate
Young's Modulus of the sMEA	2 MPa
Thickness of the sMEA (substrate+encapsulation)	270 μm (thinner and thicker samples available)
Electrode Diameter	100 μm
Interelectrode Distance (center-to-center)	960 μm (adjacent) or 1360 μm (diagonal)
Electrode Impedance	<400 kΩ
Number of Recording Electrodes	28
Number of Reference Electrodes	4 internal reference electrodes
Area of Recording Electrodes	5 mm × 5 mm
Maximum Strain and Strain Rate	50% at 80/s

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Product information
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