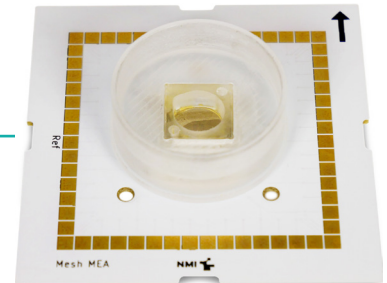
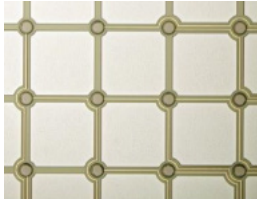


60MeshMEA



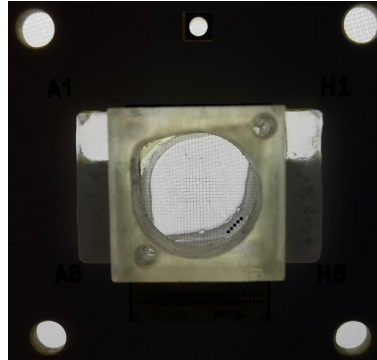
60MeshMEAs for MEA2100- and MEA2100-Mini-Systems
 Suitable for all manner of 3D structures – including neurospheres,
 cardiac bodies, or other types of organoids or spheroids.

Technical Specification

General Characteristics	
Temperature compatibility	11 - 40 °C
Dimensions (W x D x H)	49 mm x 49 mm x 1 mm
Electrode Interface Board	
Base material	Epoxide resin (FR4)
Contact pads	Au (Gold)
Optical access from bottom	Diameter: 6 mm
Electrode	
Number of recording electrodes	59
Number of reference electrode	1
Electrode layout grid	8 x 8, 200 µm pitch
Electrode diameter	30 µm
Electrode material	TiN (Titanium nitride)
Electrode impedance	variable, up to < 500 kOhm
Mesh	
Mesh	Polyimide
Grid size	 200 µm
Grid	Microelectrodes at nodes
Thickness	12 µm
Filament width	21 µm

60MeshMEA

Magnification of the well from the bottom of the 60MeshMEA



Technical Specifications of the 60MeshMEA

Well Dimension	
Wells are made of polycarbonate	A two-piece polycarbonate well is glued above and below the mesh, and a polycarbonate cover slip is glued to close the bottom.
Well:	
Inner diameter	22.5 mm
Outer diameter	23.9 mm
Height of the "ring" above the inner flat surface	5.6 mm
Inner well diameter	7 mm
Height above mesh	4 mm
Height below mesh	2.4 mm
Max. volume above mesh	160 µl
Volume below mesh	100 µl
Window diameter	6 mm (Note: The volume below the mesh is nearly circular)
Sterilization	
Cleaning (on users own risk!)	TergA-Zyme: Rinse the MeshMEA with distilled water and fill wells with TergA-Zyme solution afterwards, wait 12 hours at room temperature before washing the wells (2 x 30 min) with distilled water. Ethanol (EtHO): Fill the wells with 70 % Ethanol for at least 20 minutes, then rinse the wells three times with distilled water, dry overnight.
Sterilization	Do not autoclave or sterilize MeshMEAs by heat! MeshMEA types are heatstable up to 40 °C only! Please use Ethanol for sterilization.
Storage	Please store used MeshMEAs cleaned, at room temperature and in a dark and dust free place.



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