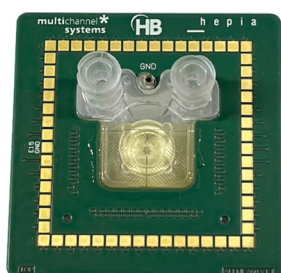


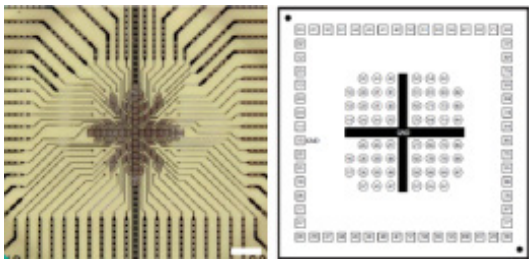
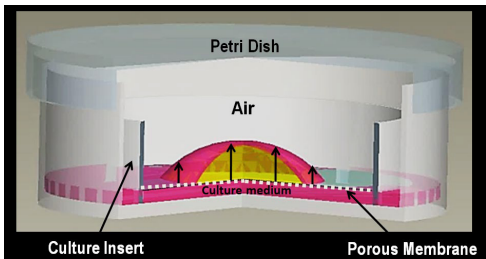
ALI MEA (Microfluidic Air-Liquid Interface MEA)

Microfluidic Air-Liquid Interface MEA for MEA2100-Mini-Systems with an adapted heat plate ALI Heat. Suitable for all manner of 3D structures – including neurospheres, cardiac bodies, or other types of organoids or spheroids.

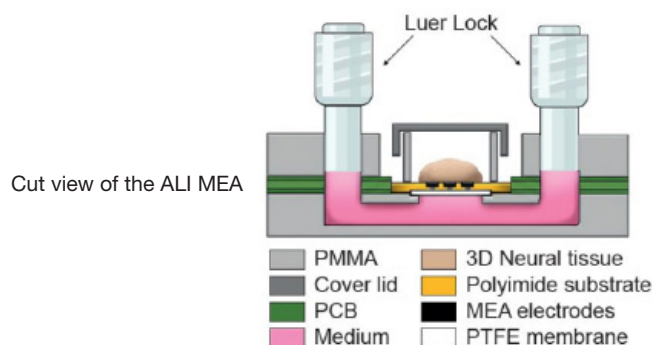


Note: MEAs are not symmetrical! Ensure the ALI MEA is positioned with the Luer lock connectors pointing in the opposite direction of the headstage opening.

Technical Specifications

General Characteristics	
Temperature compatibility	11 - 40 °C
Dimensions (W x D x H)	49 mm x 49 mm x 2.5 mm
Height	16.4 mm
Air-Liquid Interface MEA	
Base material PCB	Epoxide resin (FR4)
Contact pads	Au (Gold)
Electrodes	
 	
Number of recording electrodes	59
Number of reference electrode	1, crosswise
Electrode layout grid	8 x 8, 200 µm pitch
Electrode diameter	30 µm
Electrode material	Pt (Platinum), coated with PtB (Black Platinum)
Electrode impedance	Typically < 150 kOhm

Air-Liquid Interface MEA



Technical Specifications of the ALI MEA

ALI MEA Construction	
Well	PMMA (polymethyl methacrylate)
Fluidic volume	350 µl
Open well	6.6 mm inner diameter 9.8 mm outer diameter for breathable membrane
Fluidic connectors	Standardized female Luer lock, can be used with any male Luer connectors
Polyimide substrate	Thickness 8 µm Hole sizes 7.5 µm Porosity 10 %
Sterilization	
Cleaning (on users own risk!)	Terg-A-zyme: Rinse the ALI MEA with distilled water and fill wells with Terg-A-zyme solution afterwards, wait 12 hours at room temperature before washing the wells (2 x 30 min) with distilled water. Ethanol (EtOH): 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 ALI MEAs by heat! ALI MEA types are heatstable up to 40 °C only! Please use Ethanol for sterilization.
Storage	Please store used ALI MEAs cleaned, at room temperature and in a dark and dust free place.