

Innovations in Electrophysiology



Layout

Technical Specifications

Temperature compatibility 0 - 125 °C

Dimensions (W x D x H) 49 mm x 49 mm x 1 mm

Base materialGlassTrack materialGoldContact padsGoldElectrode diameter100 μmInterelectrode distance700 μm

(center to center)

Electrode height Planar
Electrode material Au (Gold)

Isolation material SU-8 (photoresist, 1 - 2 μm)

Electrode impedance $< 100 \text{ k}\Omega$ Electrode layout grid 8×8 Number of recording electrodes 59

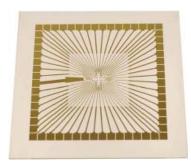
Number of reference electrodes 1 internal reference electrode (iR)

Software

Multi Channel Experimenter MEA Configuration

MC_Rack 2 dim. (MEA) or Configuration

Channel map Default



MEAs are not symmetrical! MEAs with internal reference electrode should be placed with reference electrode to the left side when looking directly to the opened amplifier.

Advantages

- Very cost efficient and robust EcoMEAs on glass base.
- For applications with lower spatial resolution and higher throughput.
- Established for cardiomyocyte cultures and large slices.
- Glass base facilitates view on sample under the microscope.

MEA Perfusion Chamber

(w/o) Without ring

(gr) Glass ring ID +/- 19 mm, OD +/- 24 mm, height 6 / 12 mm

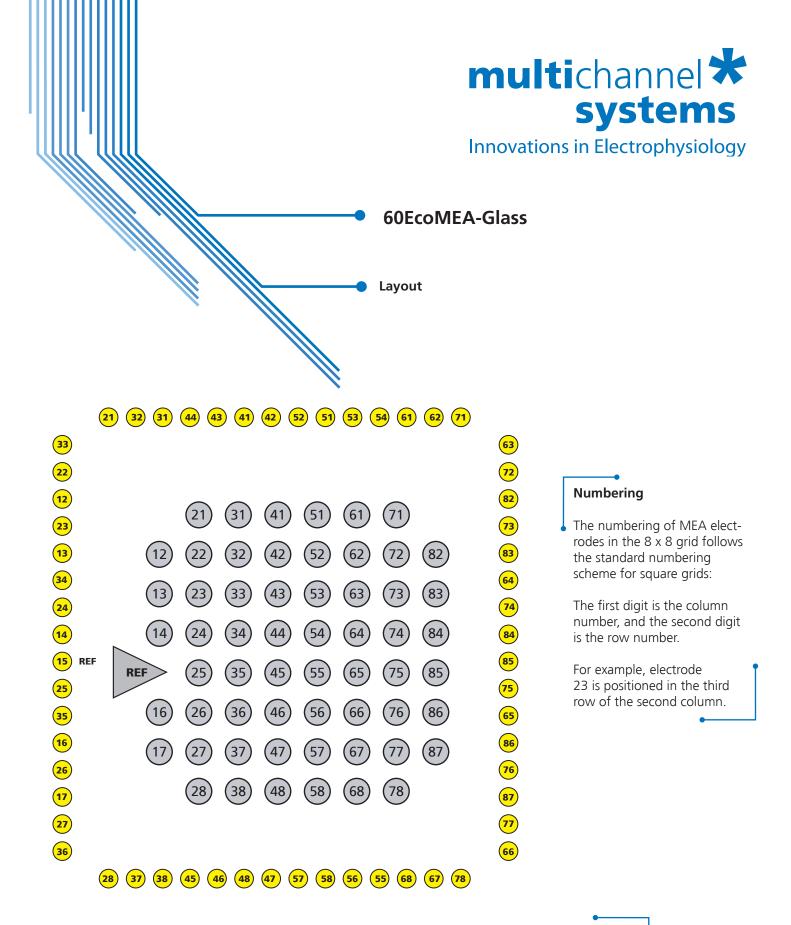
(pr) Plastic ring without thread ID 26.5 mm, OD 30 mm, height 6 / 15 mmm

(pr-T) Plastic ring with thread ID 26 mm, OD 30 mm, height 6 / 15 mmm

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The MEA Electrode IDs are the channel numbers that are used in the data acquisition program. When using MC_Rack software, please select the 2 dimensional layout (or Configuration) in the "Data Source Setup". Electrode 15 is missing in this MEAs. It is replaced by a big internal reference electrode, connected to pin 15 of the amplifier.