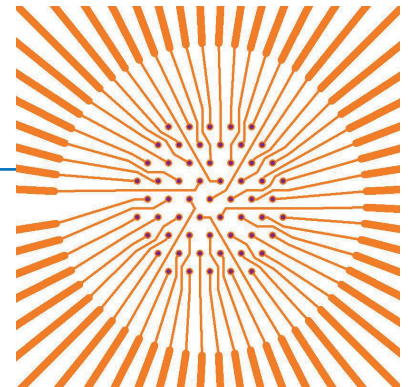


60HexaMEA40/10

Microelectrode Array with hexagonal Electrodes
for Use with MEA2100-System

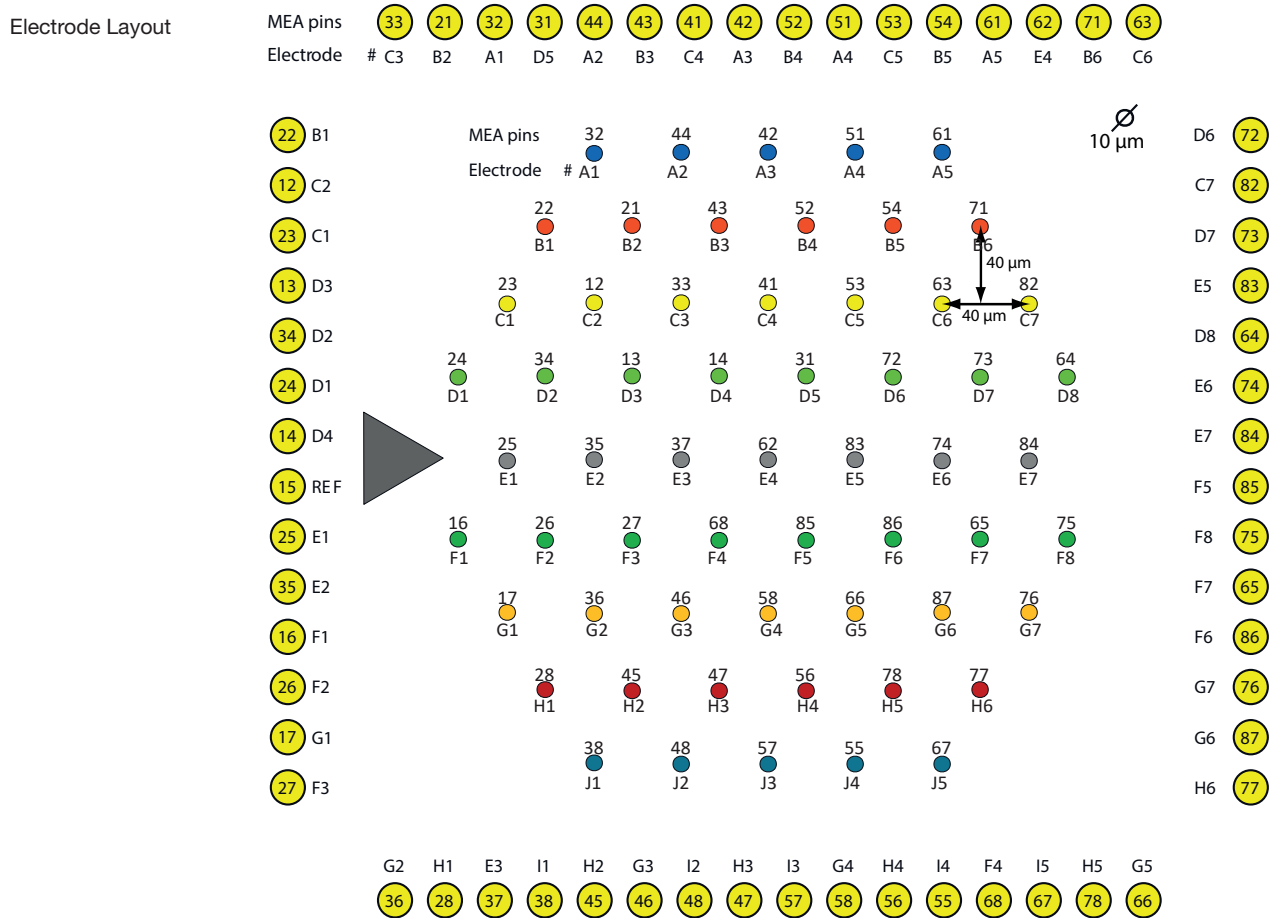
60HexaMEA40/10iR-ITO



Technical Specification

General Characteristics	
Temperature compatibility	0 - 125 °C
Dimensions (W x D x H)	49 mm x 49 mm x 1 mm
120MEA Layout	
Base material	Glass
Electrode material	TiN (Titanium nitride)
Electrode height	planar
Track material and contact pads	ITO (Indium tin oxide)
Electrode diameter	10 µm
Interelectrode distance (center to center)	40 µm
Isolation material	Silicon nitride (SiN)
Electrode impedance	250 - 400 kΩ
Electrode layout grid	hexagonal
Number of recording electrodes	59
Number of reference electrodes	1 internal reference electrode (iR)
Software: MC_Rack	MC_Rack: 2 dim. (MEA) or Configuration
Software: Multi Channel Suite	Multi Channel Experimenter: MEA Configuration
MEA Perfusion Chamber	
(w/o) Without ring (gr) Glass ring (pr) Plastic ring without thread (pr-T) Plastic ring with thread	ID +/- 19 mm, OD +/- 24 mm, height 6 / 12 mm ID +/- 26.5 mm, OD +/- 30 mm, height 6 / 12 mm ID +/- 26 mm, OD +/- 30 mm, height 6 / 12 mm
Sterilization	These MEA types are heatstable up to 125 °C! They can be autoclaved and coated with different procedures for cell and tissue cultures.

60HexaMEA40/10: Electrode Layout



Technical Specifications of the 60HexaMEA40/10

Numbering	The letter-digit code is the electrode identifier and refers to the position of the electrode in the hexa grid. The specified MEA amplifier pin numbers are the channel numbers that are used in the data acquisition software. One electrode is missing in 60HexaMEA40/10 with internal reference electrode. It is replaced with a big internal reference electrode, connected to pin 15 of the amplifier.
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.