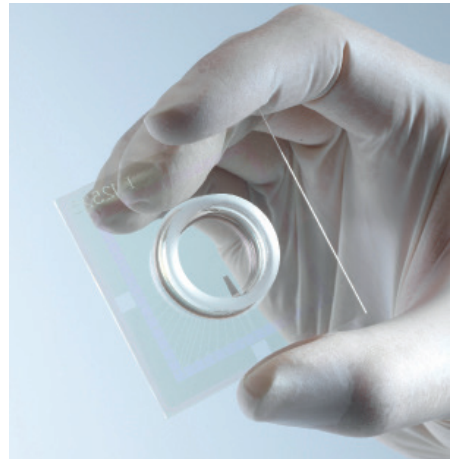


## 60tMEA200/30iR-ITO Microelectrode Array with transparent Electrodes

### Layout



**Important: Please do not treat a MEA with transparent electrodes in a Plasma Cleaner! To make it hydrophilic use PBS over night.**

### Technical Specifications

Temperature compatibility	0 - 125 °C
Dimensions (W x D x H)	49 mm x 49 mm x 1 mm
Base material	Glass
Track material	ITO (Indium tin oxide)
Contact pads	ITO (Indium tin oxide)
Electrode diameter	30 µm
Interelectrode distance (center to center)	200 µm
Electrode height	Planar
Electrode material	transparent TiN (Titanium nitride)
Isolation material	Silicon nitride 500 nm (PEVCD)
Electrode impedance	< 250 kΩ
Electrode layout grid	8 x 8
Number of recording electrodes	59
Number of reference electrodes	1 internal reference electrode (iR)
<b>Software</b>	
Multi Channel Experimenter	MEA Configuration
MC_Rack	2 dim. (MEA) or Configuration
Channel map	Default

### Advantages

- Standard MEAs are useful for all kinds of application, this provide flexibility.
- The signal-to-noise ratio is excellent.
- Electrodes, ITO contact pads and tracks are transparent, for a perfect view of the specimen under microscope.

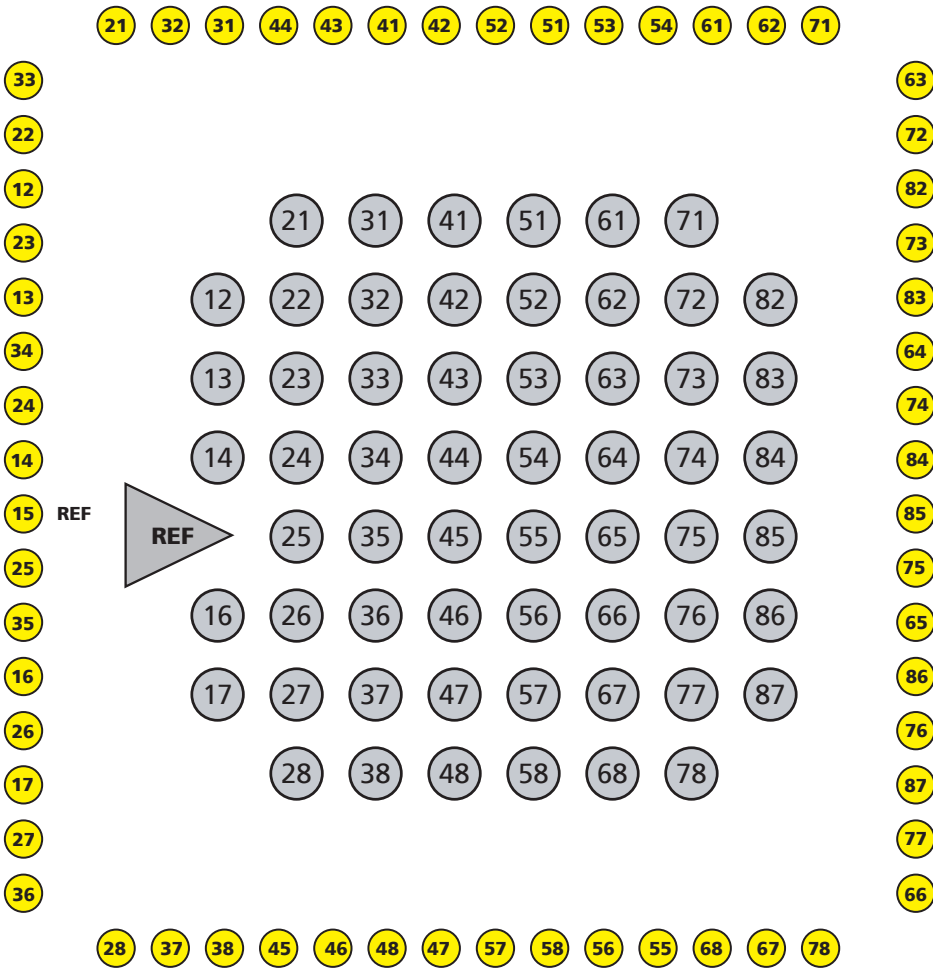
### MEA Perfusion Chamber

- (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

## 60tMEA200/30iR-ITO

Microelectrode Array with transparent Electrodes

Layout



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.

### Numbering

The numbering of MEA electrodes in the 8 x 8 grid follows the standard numbering scheme for square grids:

The first digit is the column number, and the second digit is the row number. For example, electrode 23 is positioned in the third row of the second column.

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