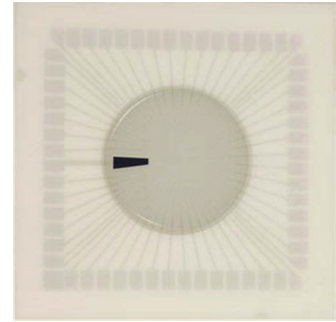


## 60ThinMEA30/10iR-ITO

### Layout



### Technical Specifications

Temperature compatibility	0 - 125 °C
Dimensions (W x D x H) „Thickness“	49 mm x 49 mm x 1 mm 180 µm (Glass part)
Base material	Glass on ceramic carrier
Track material	ITO (Indium tin oxide)
Contact pads	ITO (Indium tin oxide)
Electrode diameter	10 µm
Interelectrode distance (center to center)	30 µm
Electrode height	Planar
Electrode material	TiN (Titanium nitride)
Isolation material	Silicon nitride 500 nm (PEVCD)
Electrode impedance	250 - 400 kΩ
Electrode layout grid	2 x (5 x 6)
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

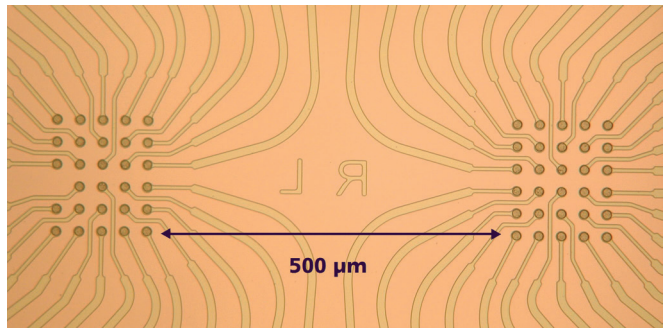
- ThinMEAs with a “thickness” of only 180 µm, ideally suited for high resolution imaging.
- The electrodes are embedded in a very thin glass substrate on a robust ceramic carrier.
- Contact pads and tracks are made from transparent ITO indium tin oxide for imaging.
- The 60ThinMEA30/10iR-Ti is a high dense MEA with the highest spatial resolution and a double recording field of 5 x 6 electrodes each.

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

## 60ThinMEA30/10iR-ITO

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### Numbering

The first letter of the electrode number code refers to the row number, the digit is the column number, and the second letter refers to the electrode field (left or right) of the 60ThinMEA30/10iR-Ti.

The specified MEA pin numbers are the channel numbers that are used in the data acquisition program.

The electrode D1 (15) of the left electrode field is missing. It is replaced by a big internal reference electrode, which is connected to pin 15 of the amplifier.

