Versatile *in vitro* recording system: New MEA2100-256-System

- 256 channel *in vitro* recording system
- Based on the well-established MEA2100 platform
- 24 bit resolution
- Filter bandwidth adjustable via software
- Integrated stimulation and blanking
- Real-time feedback
Versatile *in vitro* recording system: MEA2100-System

Launching the MEA2100-256-System, the MEA2100-System family is again growing and offers the entire range from 32 to 256 channel *in vitro* recording with integrated stimulation and real-time feedback, following the tradition of high-quality, low-noise amplifiers.

We provide the complete setup for your extracellular recordings from microelectrode arrays (MEAs), including everything you need: data acquisition computer with powerful software, interface board with multiboot functionality, MEA-headstage with integrated stimulation, MEAs, as well as temperature controller and perfusion heating. Thanks to its compact design, you can place your MEA-headstage on any inverted or upright microscope. It is connected via a single eSATA cable to the interface board, which offers various analog inputs and digital in-/outputs for synchronization with other instruments.

### Interface board 3.0 multiboot

The MCS-IFB 3.0 multiboot is a new generation of interface boards, which enables you to operate a wide range of MCS *in vitro* and *in vivo* headstages: MEA2100-HS, Multiwell-MEA-HS, CMOS-MEA-HS, W2100-HS and ME2100-HS.

This allows cost-effective combinations with only one interface board and multiple recording systems.

### Technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data resolution</td>
<td>24 bit</td>
</tr>
<tr>
<td>Number of recording channels</td>
<td>252</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>0.1 Hz to 10 kHz</td>
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<tr>
<td>Control interface</td>
<td>USB 3.0</td>
</tr>
<tr>
<td>Sampling rate per channel</td>
<td>up to 50 kHz per channel</td>
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<tr>
<td>Software</td>
<td>Compatibility with</td>
</tr>
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<td></td>
<td>Multi Channel Suite</td>
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