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 multiboard 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 multiboard**

The MCS-IFB 3.0 multiboard 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**

- **Data resolution**: 24 bit
- **Number of recording channels**: 252
- **Bandwidth**: 0.1 Hz to 10 kHz
- **Control interface**: USB 3.0
- **Sampling rate per channel**: up to 50 kHz per channel
- **Software**: Compatibility with Multi Channel Suite