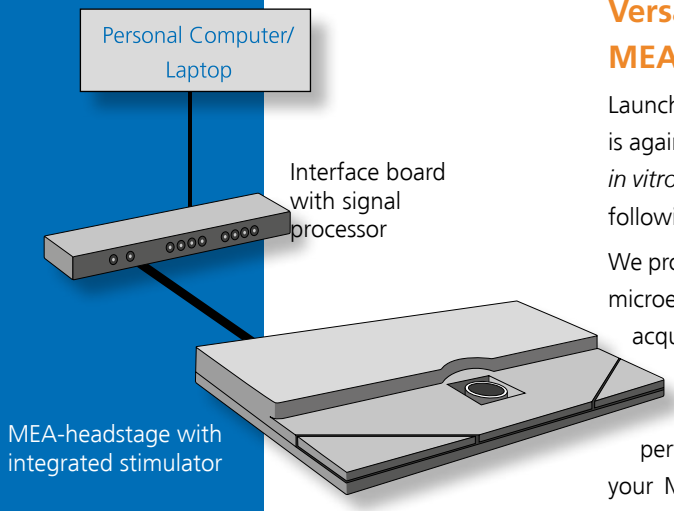
multichannel systems

Innovations in Electrophysiology

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

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

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