



Tethered *in vivo* recording system: ME2100-System

- Up to eight 32 channel headstages
- 24 bit resolution
- Filter bandwidth adjustable via software
- Integrated stimulation
- Real-time feedback
- Programmable output for optical stimulation

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The ME2100-System is a tethered *in vivo* recording system. It is the complete setup for anesthetized/head-fixed animals, including everything you need for your experiment.

The system consists of a signal collector unit for up to four headstages, which also contains a connector for high power LEDs. The signal collector is connected via eSATA cable to the interface board. Up to two signal collectors can be connected to one interface board. Headstages have 32 recording channels plus ground and reference inputs. Amplifier, stimulators and A/D converters are all directly on the headstage, which allows low-noise, high quality data acquisition.

The stimulator units can be connected by software command to any of the recording channels, or to a connector for an external stimulation electrode, which is also located at the HS. Each of the 32 channels can be used for recording or stimulation, whereas 2 channels can be used for external stimulation electrodes as well.



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	up to 256
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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