



# AcadeMEA

A scalable, entry-level MEA system for learning, discovery, and early-stage research

## Advantages

AcadeMEA is a cost-effective MEA system that makes electrophysiology **more accessible to academic labs without compromising data quality or flexibility**. Built around an MEA2100-Mini headstage connected via our eGG USB Interface to a PC, AcadeMEA provides a streamlined, user-friendly setup that's ideal for new and growing labs.

AcadeMEA follows our modular design ethos, allowing users to start with a basic configuration and seamlessly upgrade to more advanced Multi Channel Systems MEA platforms later on while retaining the same headstage – helping your lab scale up seamlessly and protect your investment as your research evolves.

With a compact footprint and simplified workflow, AcadeMEA enables reliable electrophysiological recordings for pilot studies, teaching environments, and early-stage research, making it an ideal solution for labs taking their first step into MEA technology.



The AcadeMEA eGG USB Interface, an easy-to-use and streamlined way to connect our MEA2100-Mini headstage to your PC and record data.

## Applications:

- Neuronal network activity and signaling
- Cardiomyocyte electrophysiology
- Stem cell-derived models
- Organoid and 3D culture studies
- Toxicology and long-term studies

## Key features

- **Simple, streamlined setup:** Mini-60 or Mini-120 headstage connected via eGG interface to PC
- **Scalable platform:** Easily upgrade to advanced MEA systems while reusing the same headstage
- **Incubator-ready:** Generate recordings from inside an incubator
- **Compact and efficient:** Minimal footprint for easy integration into existing lab environments
- **Multiple software options:** Comes with Multi Channel Experimenter software, and Multi Channel Analyzer can be purchased as optional
- **Designed for early-stage work:** Ideal for pilot experiments and proof-of-concept studies, but easy to upgrade to a more advanced Multi Channel Systems MEA system and continue to use the same headstage
- **Accessible entry point:** Lower cost barrier for academic, teaching, and startup laboratories

## Specifications

Amplifier	
Data resolution	24 bit
Max number of recording channels	1x60 or 1x120
Data converter and USB interface	
Sampling rate per channel	up to 50 kHz

## Ordering information

AcadeMEA60 System	891458
AcadeMEA120 System	891459
MC Analyzer Software License	891461

## Our MEA Solutions

The MEA2100-Mini headstage is also compatible with our IFB-C interface board, which allows labs to easily and cost-effectively to expand their electrophysiology with a range of additional headstages, chips, and systems, including:

- **Mesh MEA** for organoid electrophysiology
- **IntraCell** for multiparametric recordings
- **Wireless systems** for *in vivo* electrophysiology
- **Incub8™ multiwell** for high-throughput
- **High-definition MEAs** for high-spatial resolution

