



MEA2100–256

High Definition MEA- Electrophysiology on glass

Part of the Multi Channel Systems 2100 amplifier suite, the MEA2100-256 is the ultimate solution for high-definition Micro-Electrode-Array recordings and transparent substrates. Profit from full optical access and flexible electrode geometry for highest experimental flexibility.

Key Features

- Highest channel count for high density network information
- Full transparent Electrode-Array Chips for optical access
- In depth data analysis with cutting edge amplifier technology
- Integrated feedback stimulation for convenient modification of network dynamics

Multiboot Interface Board

The Multiboot Interface Board facilitates operation of all MCS *in vitro* and *in vivo* headstages within the entire 2100 amplifier portfolio. This portfolio includes: MEA2100-HS, Multiwell-MEA-HS, CMOS-MEA-HS, MEA2100-Beta-Screen-HS, W2100-HS and ME2100-HS. The modular 2100 amplifier solution design makes it easy to modify your lab equipment generally with modest hardware upgrade investments.



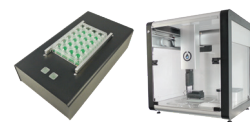
MEA2100-Beta-Screen
Diabetes
Electrophysiology

W2100
Wireless In Vivo
Electrophysiology

ME2100
Tethered In Vivo
Electrophysiology



MEA2100
Flexible, modular,
scalable single-well
MEA Electrophysiology



Multiwell-MEA & MEA Xpress
High throughput compound
screening and functional
cell monitoring



CMOS-MEA
Subcellular
Signal
Propagation



MEA2100-256

= Cardiomyocytes, organoids and whole heart	= Cell cultures and stem cell applications
= Neuronal cultures, acute slices and organotypic tissue culture (OTC)	= Diabetes
= Retina	= Acute tissue slices

Specifications

Amplifier	
Data resolution	24 bit
Number of recording channels	256
Stimulus Generator	
Current mode	± 1 mA
Voltage mode	± 10 V
Data converter and USB interface	
Sampling rate per channel	up to 50 kHz