maxwell BIOSYSTEMS

Every Cell Counts.

MaxTwo

High-Throughput, High-Resolution Functional Imaging

MaxTwo

Multi-Well High-Density Microelectrode Array Platform

MaxTwo Mainframe

MaxTwo Multi-Well Plate

Mainframe and Data Transfer

One-button interface	Open / close chamber
Full culture automation	Compatible
Status indicator	LED
Data connection	Gigabit Ethernet
Small outline	40 × 16 × 12 cm^3

Built-in Incubator

Controllable temperature	Ambient + 5°C ~ 60°C
Temp. accuracy	Within 0.1°C
CO_2 control	Yes
Input gas pressure	0.1-0.15 MPa
Humidified	Yes

Recording and Stimulation Channels Per Well

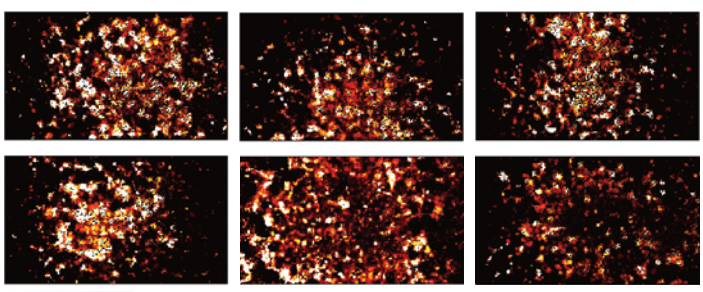
Programmable gain	up to 78 dB
No. of recording channels	1,024
Sampling rate	20 kHz / electrode
Resolution	10 bit
No. of stim. buffers	32
Stimulation modes	Voltage & Current

Microelectrodes and Sensor Area

Total no. of electrodes	26,400
El. center-to-center dist.	17.5 µm
Electrode type	Platinum
Electrode size	11.5 × 9.5 $µm^2$
Active sensing area	3.85 × 2.10 mm^2

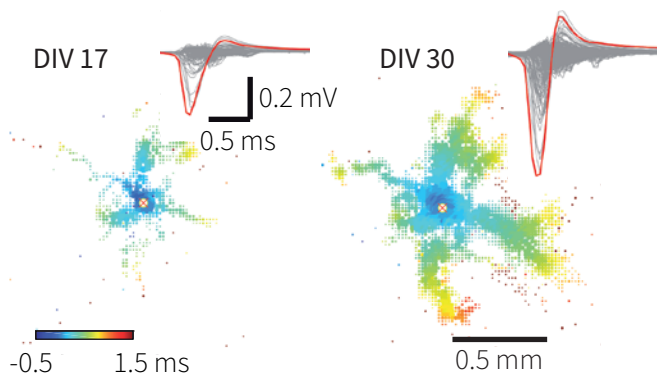
Assays

Whole Sample Electrical Imaging

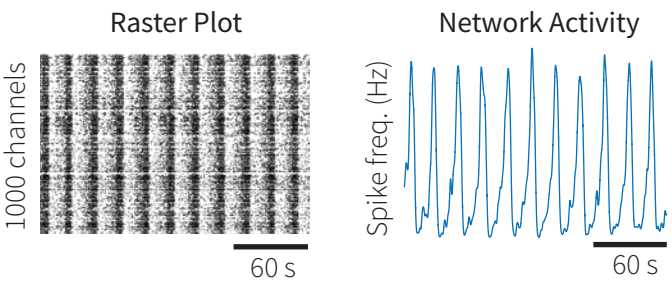


Neuron Spike Rate
Neural Cell Cultures, DIV 14

Axonal Conduction Velocity Tracking



Connectivity and Synchronicity Extraction



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