npi
Electronic Instruments
for the Life Sciences

made to measure

ELECTROPORATOR

NEW

&

DigiStim

2 channel
USB based stimulator

Single cell electroporation made easy

- Transfect individual cells for GFP expression
- Target single cells for optogenetics, etc.
- Deliver macromolecules, including DNA, RNA, dyes and proteins into cells
- Stain cells to study their morphology

Bundle it up:

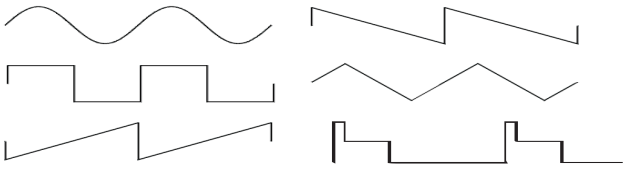
Combine **ELECTROPORATOR** with DigiStim to get a fully independent single cell electroporation system

Features: ELECTROPORATOR & DigiStim bundle:

- Program, store and recall your pulse protocol with the DigiStim
- Recall protocols stored on the DigiStim independent of a PC
- Triple audio monitor for Resistance, Current or Voltage for approaching cells
- Classic headstage style electrode fixiation with dovetail or mounting rod

Technical Data:

DigiStim - Built-in signals:



or any combined arbitrary waveform

Output: 11 bits resolution
+/- 5 V
DC to 50 kHz
(single channel 100 kHz)

Software: GUI for Windows
USB 2.0 connection
2 independent protocols can be stored
Recall via TTL without PC connection

ELECTROPORATOR

max. Output: Voltage up to 100 V
Current up to 10 mA

Input scaling: Current: 20 µA/V, 200 µA/V, 2 mA/V
Voltage: 0.2 V/V, 2 V/V,

Compensation: Offset Current
Offset Voltage
Capacitance

Audio Monitor: Resistance
Potential
Current

Displays: Resistance, Power
Voltage, Current

Monitoring: BNC outputs for potential, current, resistance, power (rear panel)

Control: Footswitch, pushbutton or TTL input will trigger data acquisition system or external signal generator (e.g. DigiStim, see overleaf)
Electroporation signal will follow the ANALOG INPUT signal.

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