

Voltammetric Amplifiers

Amperometry & Cyclic Voltammetry

VA-10X

19" amplifier with headstage



- Low-noise potentiostat, works in pA range
- Ideal for work on single cells
- Bandwidth > 10 kHz with optional frequency booster

Applications

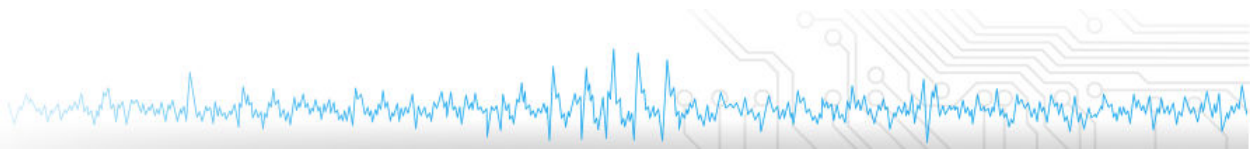
- Neurotransmitter detection (e.g. dopamine, glutamate)
- Scanning Ion Conductance Microscopy (SICM)
- Fast-Scan Cyclic Voltammetry (FSCV) with up to 1000 V/s
- Lipid bilayer recordings
- Use with Biosensors, self-made electrodes, ALA's carbon fiber electrodes, etc.

VA-10M

Modular amplifier for EPMS-07 system

- Modular concept for highest flexibility
- One channel per module, combine several modules to multi-channel system
- Special multi-channel headstages available





Miniature headstages

For *in vivo* recordings



- Single-channel or multi-channel
- Individual command voltages
- Flexible cable for freely behaving animals

VA-10X

Standard Features

- Gain (mv/pA): 0.5, 1, 2.5, 5, 10, 25, 50
- Low-pass Filter (Hz): 20, 50, 100, 200, 300, 500, 700, 1k, 1.3k, 2k, 3k, 5k, 8k, 10k, 13k, 20k (8-pole Bessel filter)
- Feedback resistor: 500 M Ω (± 20 nA)
- Command range: ± 1 V
- Frequency booster: enhance recording bandwidth to several 10 kHz
- Telegraph Gain: +1 V ... +7 V, (1 V/step)
- Telegraph Filter: - 8 V ... +7 V, (1 V/step)

Options for Customization:

- Gain: e.g. 0.005 mV/nA ... 5 mV/nA
- Filter frequency: single or multiple custom frequencies
- Command range: e.g. ± 2 V, ± 3 V
- Feedback resistor: e.g. 1 M Ω , 5 M Ω , 50 M Ω , 100 M Ω , 1 G Ω , 5 G Ω ,
- Telegraph: e.g. 0.4 V/step
- Headstage: Classic 3-electrode or simple 2-electrode approach

Ask us about the
custom design to
replace the
Dagan Chem Clamp
amplifier!!!

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