MM₃A-LS Micromanipulator

The MM₃A-LS micromanipulator is employed by scientists around the world for highly sensitive electrophysiological recordings. It is renowned for long-term stability and precision and has earned Kleindiek Nanotechnik a reputation for top-of-the-line manipulation solutions.

APPLICATION

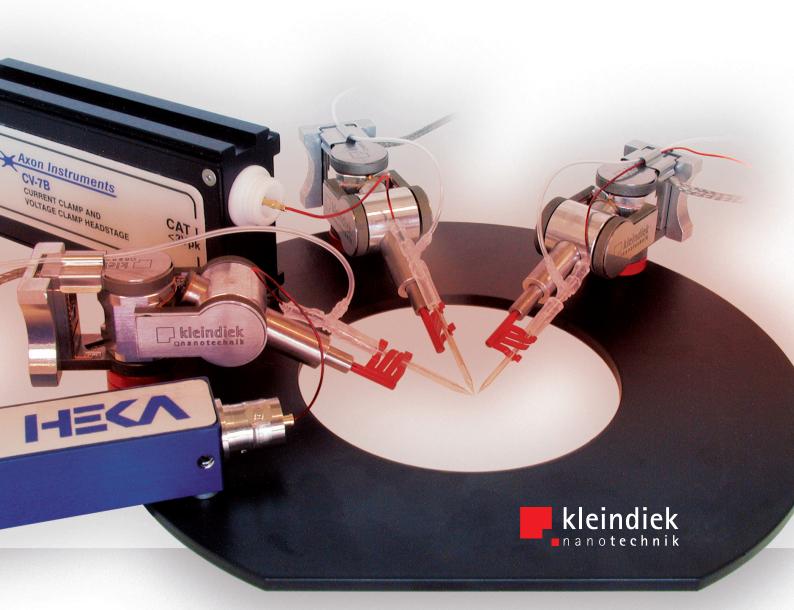
Patch clamp



ACCESSORIES

Cube controller

Fine range booster



All technical specifications are approximate. Due to continuous development, we reserve the right to change specifications without notice. Version 10.01. @ Kleindiek Nanotechnik GmbH.

MM₃A-LS Micromanipulator

More compact and more flexible

- Small and practical
- Plug-and-play system with modular components
- Interfacing solutions for all light microscopes
- Fast setup and removal
- Effortless work with multiple manipulators

Clearer and simpler

- Result-oriented operation which leads to increased throughput
- Intuitive control interfaces and software
- User-friendly and easy to learn
- Quick and easy pipette exchange
- Compact, low-noise electronics
- Reduced interference due to pioneering cabling technology

More robust and more stable

- Compact construction delivers higher resonance frequencies
- Excellent stability
- Low drift (1 nm/min)
- Reliable operation (one year endurance test)
- Virtually insusceptible to vibrations
- Fast pre-positioning by hand

Faster and more precise

- No backlash or reversal play
- Sub-nanometer resolution (o.25 nm)
- Extensive working range (100 cm³)
- No "blind axis" like with cartesian systems
- Coarse and fine displacement in one drive
- High operating velocity (up to 10 mm/sec)

Technical specifications

A = LEFT/RIGHT B = UP/DOWN C = IN/OUT

- Length 62.1 mm
- Width 20.4 mm
- Height 25.4 mm
- Weight 45 g
- Operating range AB 240°
 Operating range C 12 mm
- Speed AB up to 10 mm/s
 Speed C up to 2 mm/s
- Resolution A 10⁻⁷ rad (5 nm)
 Resolution B 10⁻⁷ rad (3.5 nm)
 Resolution C < 0.5 nm
- Holding force 1 N
- Holding torque 3 to 4 Nmm
- Lift Y 5 g
- Temperature range 273 K to 353 K
- Lowest pressure Not vacuum compatible
- Mounting Magnetic
- Material Stainless steel, aluminium

Contact us at info@nanotechnik.com or find your local agent at www.nanotechnik.com

