

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.



ACTUAL SIZE

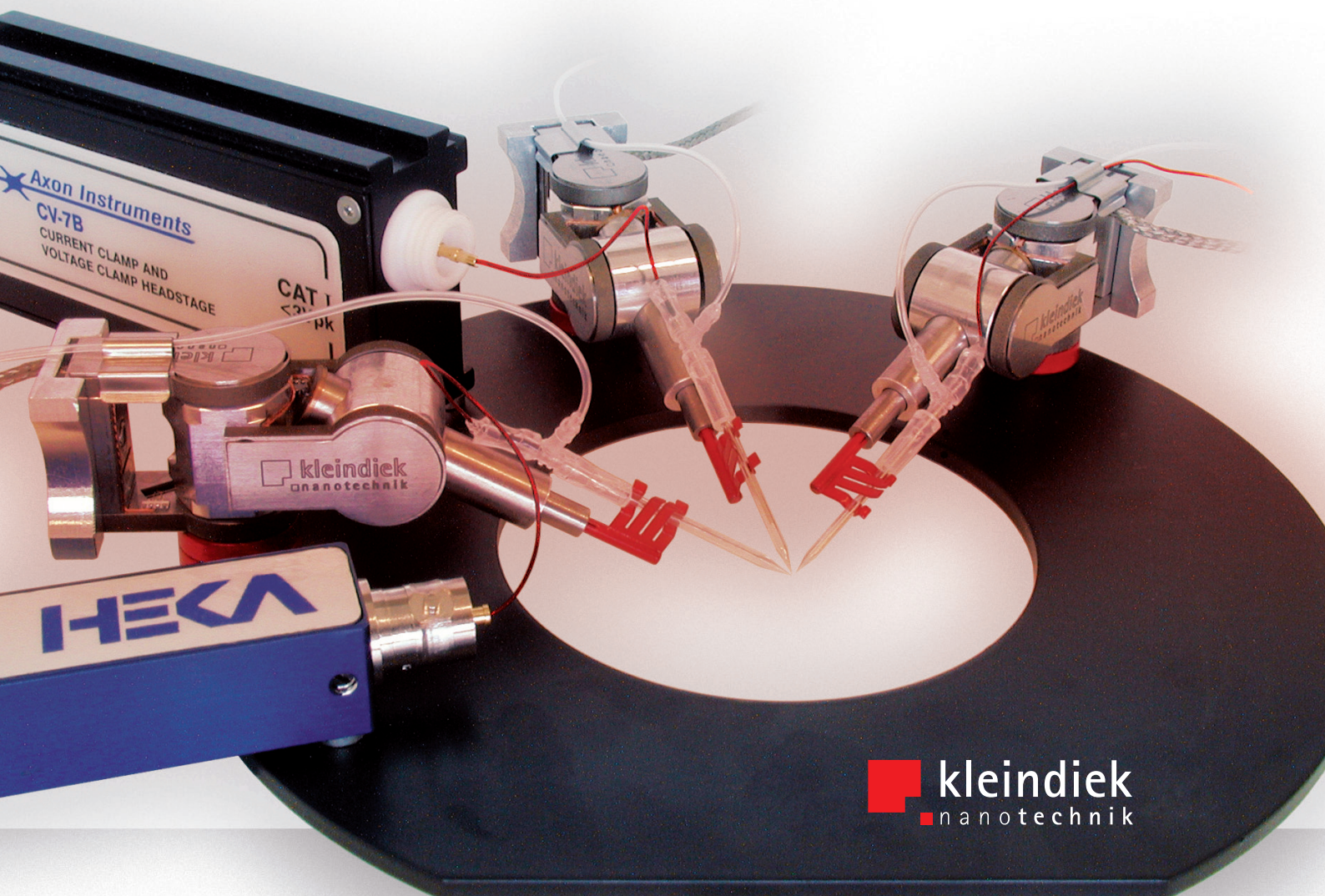
APPLICATION

Patch clamp

ACCESSORIES

Cube controller

Fine range booster



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 unsusceptible to vibrations
- Fast pre-positioning by hand

Faster and more precise

- No backlash or reversal play
- Sub-nanometer resolution (0.25 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

- 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

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

Contact us at



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