

MDS-1

NEW  ([Legend Symbols](#))

One-axis Motorized Stereotaxic Micromanipulator

One-axis motorized operation makes careful work easier

One-axis motorized micromanipulator is add-on type for Z-axis direction that is suitable for experiments in rodents. Ideal for precise control that requires careful work in mouse/rat brains, such as implanting GRIN lens, inserting optical fiber and silicon probe for multi-neuron recordings. The drive unit is controlled digitally and remotely that offers speed control and precise control: those operations are impossible to be performed by manual model. Two setting modes are available: entering speed directly or entering distance and time. The range of drive speed is set as $0.1\mu\text{m/s}$ to $500\mu\text{m/s}$. The drive unit accommodates to hold a shaft with 3mm to 8mm O.D.



Accessories included	Connecting bar Connecting cable (1.5m) AC power cord (2.5m) Dedicated screw (for attaching manipulator) Hex wrench × 2 Spare fuse (inside of fuse holder)	
Drive source	5-phase Stepping Motor	
Movement range	20mm	
Setting range	Speed range	0.1 μ m/s ~ 2,500 μ m/s (0.1 μ m/s increment)
	Distance range	1 μ m ~ 20,000 μ m (1 μ m increment)
	Time range	1s ~ 60min (0.1s increment)
Working voltage	AC100V ~ 240V, 50/60Hz	
Power consumption	15W	
Dimensions/Weight	Drive unit	W56 × D60 × H122mm, 0.28kg
	Control unit	W180 × D260 × H95mm, 2.5kg