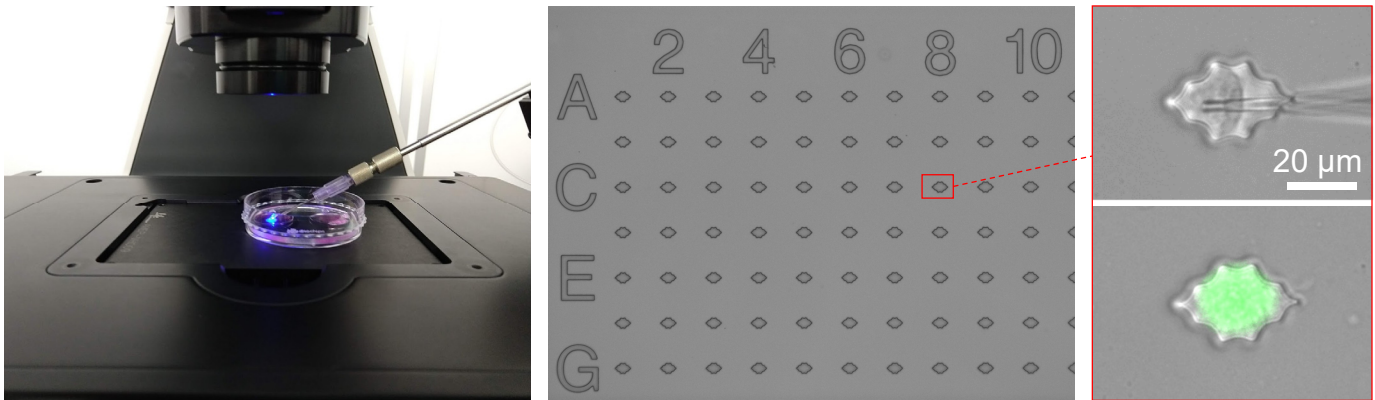


Microinjection System is designed to ensure fast and high-throughput intracellular delivery. Combining with PicoWell Microinjection Chamber, our system provides fast and reliable solution to tackle broad range of microinjection.



Features

PicoWell Chamber

- Isolate single cells into pico-liter wells
- Hold cells during injection
- High-throughput single cell injection
- Compatible to Petri dish holder

Microinjector

- Precise dose control
- Perfect for small volume injection
- Standalone built-in compressor
- Foot switch and computer controlled

Micromanipulator

- High resolution, maximum stability
- High precision x-, y-, and z- module
- Joystick or computer controlled
- Programable for automatic injection

Microscope

- Combined with our A1 cell imaging system
- Motorized stage
- Multichannel fluorescence
- Multi-point time-lapse

A2 Micromanipulator Specification

Highly accurate electronic translator combined with ergonomic joystick controller, A2 micromanipulator system is ideal for broad range of microinjection application including embryo injection, gene editing, and nuclear transfer.



Traveling distance	• ≥ 20 mm in X, Y, Z and X/Z direction
Stepper motor	• X-, Y-, Z-module
Step size	• < 20 nm (computational resolution)
Speed	• 0 – 10,000 $\mu\text{m/s}$
Adjustability	• > 80 mm
Direction of rotation	• -45° to $+90^\circ$
Operating angle	• 0° – 90°
Weight	• 2.15 kg

A2 Microinjector Specification

A2 microinjector provides perfect solution for injecting very small amount of fluid from femto-liter up to 1 μl into cells. Integrated compressor delivers exceptional stability and simple operation for reproducible injection.



Clean function	• Max. 6,000 hPa (87 psi)
Pressure range	• 5 – 6,000 hPa; 1 hPa increment
Injection time	• 0.10 s – 99.99 s; 0.01 s increment
Pressure supply	• Integrated compressor
Dimensions	• 21.3 x 20.7 x 25 cm
Weight	• 5 kg

PicoWell Microinjection Chamber Specification

PicoWell Microinjection Chamber enables simple, convenient, and high-throughput microinjection to single cells. Optimized geometry and unique design of the pico-liter volume well array isolates and holds single cells during microinjection without cell movement.



	High-throughput	Low-throughput
Dimensions	Compatible with 60 mm Petri dish	
# of chambers	2 chambers	4 chambers
# of wells/chamber	3600 wells/chamber	96 wells/chamber
Chamber volume	100-500 μl	20-200 μl
Usage	Automatic injection	Manual injection