RWD

# Nanoliter Injection Pump

R-480

Nanoliter Injection Pump is an instrument that provide quantitative micro-injection or aspiration at a fixed speed for oocytes, animal larvae, protozoa, animal brain or eyeballs, etc..


## Features

- Ultra-high injection precision and stable operation over a long time.
- Perfectly sealed to prevent leakage during injection.
- A wide injection range. Wider range and wider application.
- New data saving function during power failure.Providing choice to continue the unfinished program when restarted from power break in the progress of injection. Never leading to experiment failure due to an accident.
- New function of needle retention time setting. No need to use a timer for setting the retention time at the end of intracranial injection.
- Adjustable screen brightness. Meeting the light intensity needs of different experimental situations.
- A small-sized injection pump, easy to use.
- Use in conjunction with stereotaxic instrument and micro-manipulator.
- Design of a 15 degree bevel, facilitating observation by customers.
- Soft connection cables of the injection unit. Producing no torsional force when used in conjunction with the positioner, preventing the injection unit shake caused by tugging during the experiment.
- Designed with anti-misalignment function. Allowing customers to make connections quickly and accurately, and preventing losses caused by blind mating of connection cables

## Product parameters

| | |
|---|---|
| Control unit size (L×W×H) | 170×120×45 mm |
| Injection unit size (L) | 20 cm |
| Length of connection cable between injection unit and control unit | 100 cm |
| Length of connection cable between foot switch and control unit (optional accessories) | 200 cm |
| Display | 5.0" capacitive touch screen |
| Weight | Control unit: 0.8 kg; injection unit: 0.2 kg; foot switch: 1.5 kg |
| Minimum injection speed | 1 nl/s |
| Maximum injection speed | 200 nl/s |
| Minimum speed resolution | 1 nl/s |
| Filling rate | 10-200 nl/s |
| Emptying rate | 10-200 nl/s or 600-12000 nl/min |
| Reset speed | 200 nl/s or 12000 nl/min |
| Minimum injection volume | 0.6 nl |
| Maximum injection volume | 5000.0 nl |
| Minimum volume resolution | 0.1 nl |
| Piston travel distance | 28 mm |
| Cycles | 1-8000 |
| Delay time | 1-999 s |
| Glass electrode size | Outer diameter: 1.14 mm, inner diameter: 0.53 mm |

## Product list

| Name | Product model | Standard/optional | Quantity | Usage |
|---|---|---|---|---|
| Injection unit | \ | Standard | 1 | For connecting glass electrodes and performing operations such as injection |
| Control unit | \ | Standard | 1 | For setting parameters and controlling the injection unit to perform the corresponding operations |
| Connection cable | \ | Standard | 1 | For connection between the injection unit and the control unit |
| 3.5" (8.89 cm) glass electrode | GC-3.5 | Standard | 100 | Outer diameter: 1.14 mm; inner diameter: 0.53 mm |
| 7" (17.78 cm) glass electrode | GC-7 | Standard | 100 | Outer diameter: 1.14 mm; inner diameter: 0.53 mm |
| Universal adapter for all nanojects | R480-SF | Standard | 1 | For use in conjunction with stereotaxic and micro-manipulator |
| Power adapter | \ | Standard | 1 | For access to power supply |
| Filling needle | R480-FN | Standard | 1 | For oil filling |
| Sealing material | R480-SM | Standard | 1 | For replacing the sealing material inside the injection unit |
| Foot switch and connection cable | R480-FS | Optional | 1 | For controlling injection, emptying and other operations of the injection unit |
| Dedicated fastener for micro-manipulation | R480-AFM | Optional | 1 | A special accessory equipped with RWD electric micro manipulator |

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