

BJ-120

Electric microinjector



Accessories

- Foot switch (D202)
- Injection holder (BKI-5)
- Adapter for air duster (BBA-1)
- Magnetic holder for injection holder

Features

Commercial air dusters available as a gas source

BJ-120 can use commercial air dusters as well as conventional compressed gas cylinders as a gas source. Eliminating the need of large gas cylinders allow you easier maintenance of the microinjector.

Enables injection of tiny amounts of liquid

BJ-120 along with our optional external trigger BT-200 will enable injection of nano- or pico-liter volume of liquid.

Suction function

BJ-120 has suction function so that you can fill hazardous liquids such as virus solution into the injection pipette without mouth.

Specification

Output gas pressure	0-0.4 MPa (Max. pressure depends on the gas source)
Injection pressure	0-0.4 MPa (Max. pressure depends on the gas source)
Balance pressure	cycle time (on front panel) 50-750 ms pulse width (on back panel) 2-30 ms

Unit size and weight	230 mm (W) - 180 mm (D) - 180 mm (H) *Excluding projecting parts 2.5 kg (main unit only)
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Balancing pressure against back-streaming of liquid

BJ-120 can produce balancing pressure, which prevents injecting liquids from flowing back to the pipette by capillary action.

Easy controlling of fill / injection

BJ-120 can adjust injection or filling time at three levels (short, long or manual). Short or long mode set the injection/fill time by turning the controlling knobs.

Easy operation with foot switch

A foot-operated switch for injection or filling action keeps your hands free for the operation. In manual mode, liquid is continuously injected or filled during the time you step on the foot switch.

Injection time	short: 3 - 25 ms long: 24 - 200 ms
Fill time	short: 30 - 250 ms long: 240 - 2000 ms
Outer diameter of applicable pipette	1mm (inquire for other sizes)

Power unit and consumption	Input: AC 100-240V, 50/60 Hz Output: DC 24V Power consumption: 55-80VA
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• Accessory

BT-200 External Trigger for BJ-120



Features

Enables easy injection control by BJ-120

BT-200 is an external trigger for BJ-120 and controls injection and/or interval time and the number of injections. BT-200 also enables continuous operation of BJ-120.

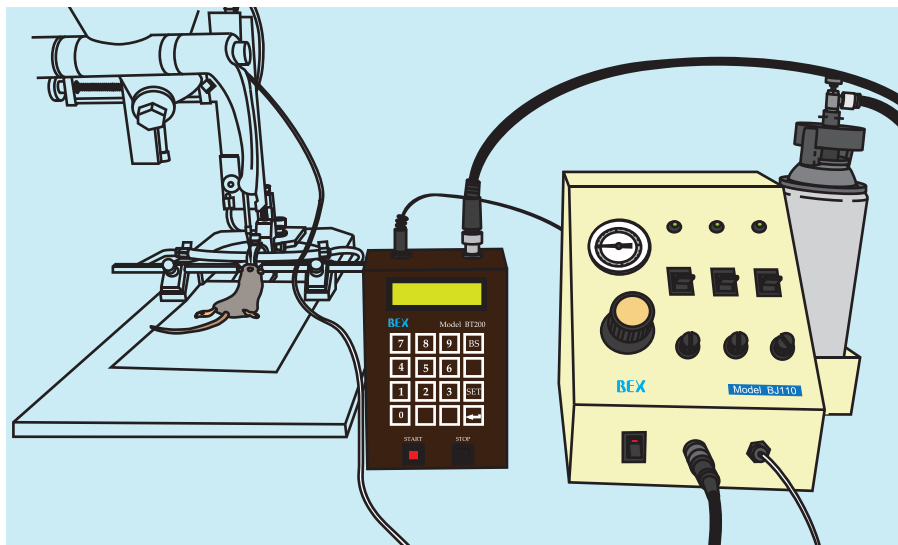
Specifications

Injection time	5 - 9999 ms
Interval time	5 - 9999 ms
Number of injections	1 - 9999; continuous operation at zero (0)
Signal type	TTL (5V)
Size and weight	106 mm (W) – 151 mm (D; excluding projections) – 56 mm (H; including projections), 365 g (main unit only)
Power Unit and Consumption	Input: AC 100-240 V Max. power consumption: 12W

Usage Example

Injection of virus solution into the adult mouse brain

By courtesy of Dr. Takeshi Kanda
(WPI-IIS, Tsukuba University)



Syringe attachment for BJ-120 BSA



Features

Making a microsyringe operational on BJ-120

This attachment enables your microsyringes to be available for BJ-120 and BJ-110.

*Applicable syringes we have confirmed: Hamilton, NANOFIL