

HandyStep® electronic

The BRAND *HandyStep® electronic* is a microprocessor-controlled, motorized repeating pipette that combines broad tip compatibility and user comfort with the convenience and efficiency of an electronic pipette. It increases productivity and reproducibility, making it ideal for most repetitive and serial pipetting tasks.

- **Works with All Standard Tips:** The *HandyStep® electronic* is compatible with BRAND PD-Tip™ syringe tips, Eppendorf® Combitips® Plus, and more.
- **Simplifies Repetitive Pipetting:** The *HandyStep® electronic* provides continuously adjustable volume selection from 1 µL to 50 mL – no more recalculating volumes, or adjusting your protocols!
- **Recognizes Tips Automatically:** The pipette automatically recognizes the size of encoded BRAND PD-Tip™ syringe tips upon tip insertion and displays the tip's volume, default dispensing volume, and default number of dispensing steps.
- **Reduces Repetitive Motion by up to 97%:** The instrument features a unique Auto-Dispense operating mode in which the pipette “learns” the operator's dispensing rhythm and dispenses at that rhythm as long as the control button is depressed – no programming needed!
- **Displays All Operating Parameters:** A large LCD screen allows operators to easily reference volume, operating mode, dispensing/aspirating speeds, battery charge, and remaining dispensing steps.



**Rapid, Relaxed, and Reliable
Repetitive Pipetting from BRAND.**

Contoured Design

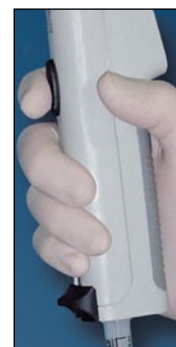
The unique shape of the HandyStep® electronic allows both left- and right-handed operators to perform all their repetitive pipetting tasks with a comfortable, relaxed grip.

Battery Compartment

The battery compartment opens easily to allow users to swap batteries in seconds for virtually continuous pipetting.

Control Button

Just a subtle squeeze of the index finger on this button controls aspiration and dispensing for effortless pipetting. Relaxed-grip design and low-strain operation



minimize the risk of repetitive motion injuries.

Tip Recognition Mechanism

The rugged tip recognition mechanism enables the instrument to automatically display the tip volume and default dispensing volume, when a BRAND PD-Tip™ syringe tip is inserted.



Technical Data & Ordering Information

Operating limits and exclusions

Liquids unsuitable for use with the *HandyStep® electronic* and PD-Tip™ syringe tips include, but are not limited to, those with:

- vapor pressure exceeding 500mbar
- viscosity: 20mPa S with 50mL PD-Tips™; 260mPa S with 5mL PD-Tips™; 977mPa S with 1mL PD-Tips™
- chemicals incompatible with tips used. See page 31 for PD-Tip™ materials of construction.
- Temperature of instrument and reagents must be between 15° and 40°C (59° and 104°F)
- The *HandyStep® electronic* cannot be autoclaved

Items supplied

Each *HandyStep® electronic* includes:

- NiMH battery
- Charging stand with power supply
- Five assorted volume PD-Tip™ syringe tips
- Performance certificate
- Operating manual
- One-year warranty

Use the tips you want

The only electronic repetitive pipette compatible with all standard syringe tips, the *HandyStep® electronic* accepts:

- BRAND PD-Tip™ syringe tips
- Rainin® Encode™ syringe tips
- Eppendorf® Combitips® Plus
- Fisherbrand® Dispenser Tips
- VWR® Combi-Syringes
- Daigger® Repeat Pipette Tips
- Gilson® Repet-Tips

Accuracy and Precision for the *HandyStep® electronic*

Volume PD-Tip™	Range	Subdivision		A* ≤ ±				CV* ≤			
		Between	Increment	100%	50%	10%	1%	100%	50%	10%	1%
0.1mL	1µL-100µL	1µL-100µL	0.1µL	1.0	1.2	1.6	16	0.5	1.0	2.0	12
0.5mL	5µL-500µL	5µL-100µL 100µL-500µL	0.1µL 1µL	0.9	0.9	0.9	9	0.25	0.5	1.0	6
1mL	10µL-1mL	10µL-1mL	1µL	0.6	0.6	0.9	8	0.2	0.8	0.6	4
1.25mL	12.5µL-1250µL	12.5µL-100µL 100µL-1000µL 1mL-1.25mL	0.5µL 1µL 10µL	0.6	0.6	0.9	8	0.15	0.3	0.6	3.5
2.5mL	25µL-2500µL	25µL-1000µL 1mL-2.5mL	1µL 10µL	0.5	0.5	0.8	8	0.1	0.2	0.4	2.5
5mL	50µL-5000µL	50µL-1000µL 1mL-2.5mL	1µL 10µL	0.5	0.5	0.8	8	0.08	0.15	0.3	1.5
10mL	100µL-10mL	100µL-10mL	10µL	0.4	0.4	0.5	5	0.08	0.15	0.25	1.25
12.5mL	125µL-12.5mL	125µL-1000µL 1mL-10mL 10mL-12.5mL	5µL 10µL 100µL	0.4	0.4	0.5	5	0.08	0.15	0.25	1.25
25mL	250µL-25mL	250µL-1000µL 1mL-25mL	10µL 100µL	0.3	0.3	0.3	3	0.08	0.15	0.25	1.25
50mL	500µL-50mL	500µL-10mL 10mL-50mL	10µL 100µL	0.3	0.3	0.3	3	0.08	0.15	0.25	1.25

* Results were achieved using PD-Tip™ syringe tips from BRAND, with an aqueous solution, obtained after instruments and solution had equilibrated at ambient temperature. Empirical values may differ from values obtained under test conditions due to variations in factors beyond our control, including temperature.

The predetermined ISO 8655-5 tolerances were not exceeded.

A*=Accuracy, CV*=Coefficient of Variation

