

HandyStep[®] electronic

The BRAND *HandyStep[®] electronic* repeating pipette 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 Most Tips:** The *HandyStep[®] electronic* is compatible with BRAND PD-Tip[™] syringe tips, Rainin[®] Encode[™], Eppendorf[®] Combitips[®] and Combitips[®] plus, and more.
- **Simplifies Repetitive Pipetting:** The *HandyStep[®] electronic* provides continuously adjustable volume selection from 1 μ L to 50mL – 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 both left- and right-handed operators to easily reference volume, operating mode, dispensing/aspirating speeds, battery charge, and remaining dispensing steps with unambiguous numbers and symbols.



Rapid, Relaxed, and Reliable Repetitive Pipetting from BRAND.



HandyStep® electronic repeating pipette

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.

Tip Connector

Ensures compatibility with most standard syringe tips, eliminating the need to stock and maintain multiple tip inventories!

Control Button

Just a subtle squeeze of the index finger on this button controls aspiration and dispensing for almost 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.



HandyStep® electronic repeating pipette

Form & Function

Control Area

Volume selection of the HandyStep® electronic is controlled with four, easily-accessible buttons.



BIG, clear LCD screen indicates:

- Volume per step
- Steps remaining
- Battery charge indicator
- Operating mode
- Dispensing speed

Tip size is indicated immediately upon PD-Tip™ insertion before this operating screen appears.



Easy to Read Display

The large LCD screen of the HandyStep® electronic simplifies referencing of all parameters during use.

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® and Combitips® Plus
- Fisherbrand® Dispenser Tips
- VWR® Combi-Syringes
- Daigger® Repeat Pipette Tips
- Labnet Dispenser Syringes
- Jencons Repette Syringe Tips

Three Operating Modes

In “Dispense” mode, the HandyStep® electronic operates like a traditional repeating pipette, dispensing up to 100 times from a single aspiration.

Select “Pipette” mode and the instrument works the same as any electronic pipette, but with the added accuracy and precision of the HandyStep® electronic’s positive displacement mechanism.

When operating in “Auto-Dispense” mode, the instrument automatically calculates the interval of the first three individual dispensings. Simply depress the control key and it will continue to dispense the remaining liquid at the same interval – no pre-programming needed!



Technical Data & Ordering Information

Operating limits

- Liquids unsuitable for use with the *HandyStep*® *electronic* and PD-Tips™ include, but are not limited to, those with:
 - a density exceeding 13.6g/cm³;
 - a viscosity exceeding 20,000cSt (mm²/s);
 - a vapor pressure exceeding 500mbar;
 - chemicals incompatible with tips used (see page 29 for PD-Tips™ materials of construction).
- Temperature of instrument and reagents must be between 59° and 104°F (15° and 40°C).
- The *HandyStep*® *electronic* cannot be autoclaved.

Items supplied

- Each *HandyStep*® *electronic* repeating pipette includes:
- Ni-MH battery
 - Battery charger
 - Five assorted volume PD-Tip™ syringe tips
 - Performance certificate
 - Operating manual
 - One-year warranty



Virtually Continuous Pipetting

Instrument is equipped with a unique charger that charges the battery inside or outside the pipette. Charge a spare Ni-MH battery outside the unit in only 2.5 hours to quickly and easily swap batteries for virtually continuous pipetting.

Accuracy and Precision for the *HandyStep*® *electronic*

Volume PD-Tip	Range	Subdivision		Accuracy within* ≤ ±%				Coefficient of Variation* ≤ %			
		Between	Increment	At tip fill volume %				At tip fill volume %			
				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	6
1.25mL	12.5µL–1250µL	12.5µL–100µL 100µL–1000µL 1mL–1.25mL	0.5µL 1µL 10µL	0.6	0.9	0.9	8	0.15	0.3	0.6	3.5
2.5mL	25µL–2500µL	25µL–1000µL 1mL–2.5mL	1µL 10µL	0.5	0.8	0.8	8	0.1	0.2	0.4	2.5
5mL	50µL–5000µL	50µL–1000µL 1mL–2.5mL	1µL 10µL	0.5	0.8	0.8	8	0.08	0.15	0.3	1.5
12.5mL	125µL–12.5mL	125µL–1000µL 1mL–10mL 10mL–12.5mL	5µL 10µL 100µL	0.4	0.5	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 ISO8655 tolerances were not exceeded.



ORDERING INFORMATION

Description	Cat. No.	2009 List Price
<i>HandyStep</i> ® <i>electronic</i> Repeating Pipette with charging stand and Ni-MH battery, 110V, 50-60Hz	705012	\$845.00
Spare Ni-MH battery	705025	52.00
Charging Stand	705020	172.00
AC Adapter	705052	67.00