

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 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 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

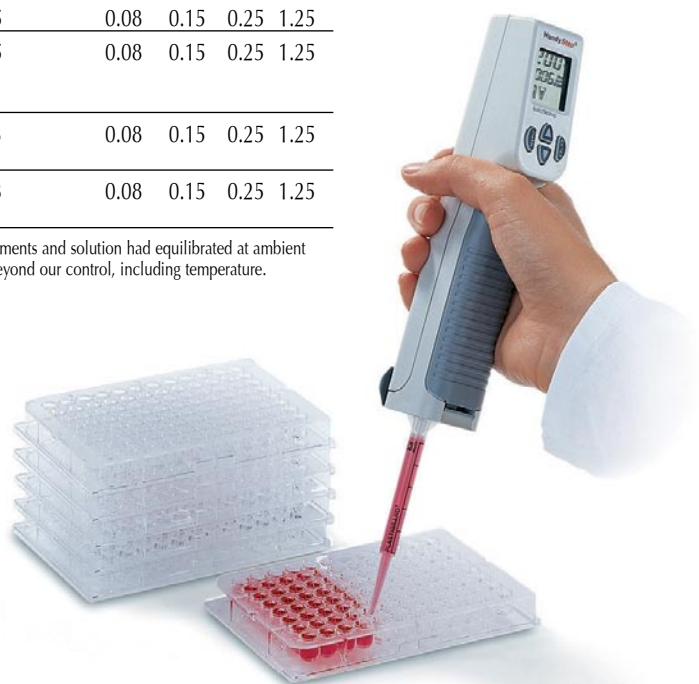
* Results were achieved using PD-Tip™ syringe tips from BRAND, with an aqueous solution, obtained after instruments and solution had equilibrated at ambient temperature. Empirical values may differ from values obtained under test conditions due to variations in factors beyond our control, including temperature.

The predetermined ISO 8655-5 tolerances were not exceeded.

A*=Accuracy, CV*=Coefficient of Variation

ORDERING INFORMATION

Description	Cat. No.	2011 List Price
HandyStep® electronic with charging stand and NiMH battery, 110V, 50-60Hz	705012	\$870.00
Spare Parts and Accessories		
Spare NiMH battery	705025	53.60
Charging Stand	705020	177.00
AC Adapter	705052	69.00



NEW!

PD-Tip™ Syringe Tips

BRAND encoded PD-Tip™ syringe tips are manufactured from high-quality virgin plastics for use with all standard repeating pipettes in a wide variety of applications. PD-Tip™ syringe tips are made without chemical additives to prevent reagent contamination.

- **Compatible with Most Pipettes:** PD-Tip™ syringe tips are an excellent choice for the BRAND HandyStep® S and HandyStep® electronic repeating pipettes; the black-handled Eppendorf® Repeater®; the FisherBrand repeating pipette; the Rainin® AutoRep™ E and AutoRep™ M; the Gilson® Repetman®; and all other repeating pipettes using standard tips. PD-Tip™ syringe tips are encoded for automatic recognition by the BRAND HandyStep® electronic repeating pipette, the Rainin® AutoRep™ E pipette, and the Gilson® Repetman®.
- **Reliable:** A precision seal between the piston and cylinder ensure smooth operation, increased accuracy, and increased precision. Extended piston design minimizes dead volume and maximizes fluid utilization.
- **Manufactured from High Quality Materials:** PD-Tip™ syringe tips are made entirely from high-quality virgin polyethylene and polypropylene. (Piston of 0.1mL tip is liquid crystal polymer-LCP).

The Perfect Tips for Your Repeating Pipette.



* The Eppendorf Repeater Plus, Repeater Pro, Stream, and XStream are designed to preclude their operation with any tips other than Eppendorf Combitips Plus.

ISO/GLP Calibration Support

BRAND PD-Tip™ syringe tips are supplied with a batch Certificate of Performance which documents tip accuracy and precision testing.

Preserve Sample Integrity with BIO-CERT® Quality Sterile Tips

BIO-CERT® PD-Tip™ syringe tips are sterile, individually wrapped and certified free of DNA, RNase, endotoxins, and ATP to meet the most stringent sample integrity requirements. For more information on the sterility and purity levels, see page 19.

ORDERING INFORMATION

Capacity mL	Cat. No.	2011 List Price
PD-Tip™ Syringe Tips, non-sterile		
0.1mL, pack of 100	702402	\$113.00
0.5mL, pack of 100	702370	106.00
NEW! 1mL, pack of 100	702406	106.00
1.25mL, pack of 100	702372	106.00
2.5mL, pack of 100	702374	106.00
5mL, pack of 100	702376	106.00
NEW! 10mL, pack of 100	702407	106.00
12.5mL, pack of 100	702378	106.00
25mL, pack of 50 (one adapter included)	702380	65.60
50mL, pack of 25 (one adapter included)	702382	37.00
PD-Tip™ Syringe Tips, non-sterile, assorted pack		
20 each of 0.5, 1, 1.25, 2.5, 5, 10 and 12.5mL sizes	702368LG	106.00
Adapter for 25mL and 50mL PD-Tip Syringe Tips		
non-sterile, PP, autoclavable, pack of 10	702398	85.00
PD-Tip™ Syringe Tips, BIO-CERT® sterile, individually wrapped		
0.1mL, pack of 100	702683	152.00
0.5mL, pack of 100	702684	145.00
NEW! 1mL, pack of 100	702685	145.00
1.25mL, pack of 100	702686	145.00
2.5mL, pack of 100	702688	145.00
5mL, pack of 100	702690	145.00
NEW! 10mL, pack of 100	702691	145.00
12.5mL, pack of 100	702692	145.00
25mL, pack of 25 (one adapter included)	702694	42.00
50mL, pack of 25 (one adapter included)	702696	43.00
Adapter for 25 and 50mL PD-Tip™ Syringe Tips		
BIO-CERT® sterile, PP, autoclavable, pack of 5	702699	66.60