

# HandyStep<sup>®</sup> electronic

The BRAND HandyStep<sup>®</sup> 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.

- **Works with All Standard Tips:** The HandyStep<sup>®</sup> electronic is compatible with BRAND PD-Tip<sup>™</sup> syringe tips, Eppendorf<sup>®</sup> Combitips advanced<sup>®</sup>, and more.
- **Recognizes Tips Automatically:** The pipette automatically recognizes the size of encoded BRAND PD-Tip<sup>™</sup> 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!

## 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.



## 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<sup>™</sup> syringe tip is inserted.

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



## HandyStep® electronic

### 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 32 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® advanced
- Fisherbrand® Dispenser Tips
- VWR® Combi-Syringes
- Gilson® Repet-Tips

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

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

A\*=Accuracy, CV\*=Coefficient of Variation

\* 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.

Description	Cat. No.	2014 List Price
HandyStep® electronic with charging stand & NiMH battery, 110V, 50-60Hz	705002	\$1019.00
<b>Spare Parts and Accessories</b>		
Spare NiMH battery	705025	58.00
Charging Stand	705020	194.00
AC Adapter	705052	75.00



# PD-Tip™ Syringe Tips

## The Perfect Tips for Your Repeating Pipette.

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.

- 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).



## 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 12.

## Calibration Support

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



### PD-Tip™ Syringe Tips, Syringe Tips, BIO-CERT® sterile, individually wrapped

Capacity, mL	Pack of	Cat. No.	2014 List Price
0.1mL	100	702683	167.00
0.5mL	100	702684	160.00
1mL	100	702685	160.00
1.25mL	100	702686	160.00
2.5mL	100	702688	160.00
5mL	100	702690	160.00
10mL	100	702691	160.00
12.5mL	100	702692	160.00
25mL, (one adapter included)	25	702694	47.00
50mL, (one adapter included)	25	702696	48.00
Adapter for 25mL and 50mL PD-Tip™ BIO-CERT® sterile, PP, autoclavable	15	702699	74.00

\*The Eppendorf Repeater Plus, Repeater® M4, Repeater Pro, Stream, and XStream are designed to preclude their operation with any tips other than Eppendorf Combitips advanced®.

### PD-Tip™ Syringe Tips, non-sterile

Capacity, mL	Pack of	Cat. No.	2014 List Price
0.1mL	100	702402	\$125.00
0.5mL	100	702370	117.00
1mL	100	702406	117.00
1.25mL	100	702372	117.00
2.5mL	100	702374	117.00
5mL	100	702376	117.00
10mL	100	702407	117.00
12.5mL	100	702378	117.00
25mL, (one adapter included)	50	702380	73.00
50mL, (one adapter included)	25	702382	42.00
PD-Tip™ Syringe Tips, non-sterile, assorted pack 0.5, 1, 1.25, 2.5, 5, 10 and 12.5mL sizes	20/size	702368	158.00
Adapter for 25mL and 50mL PD-Tip™ Syringe Tips non-sterile, PP, autoclavable	10	702398	94.00