

The BRAND® HandyStep® S repeating pipette provides unprecedented versatility in a purely mechanical repeating pipette. In conjunction with BRAND® PD-Tip™ // Precision Dispenser Tips, the HandyStep® S offers nearly sixty different volume settings with accuracy, precision, and dependability.

- **Comfortable**—The slim design of the HandyStep® S is lightweight, well-balanced, and provides a convenient control layout for smooth dispensing and one-handed volume selection.
- **Reliable**—The robust construction, using innovative polymers, delivers a dependable instrument.
- **Ready-to-go**—The mechanical design, with no batteries to charge or replace, means the HandyStep® S is ready when you are. A convenient integrated table provides a quick reference for dispensed volumes.
- **Flexible**—Ten sizes of PD-Tip™ // Precision Dispenser Tips allow the HandyStep® S to dispense 59 different volumes. The open design allows use of third party tips—no more being locked into a sole source.
- **Contact-free**—The tip ejection system allows tip removal without handling.



Technical Data

Operating limits and exclusions

Liquids unsuitable for use with the HandyStep® S include, but are not limited to, those with:

- Vapor pressure exceeding 500 mbar
- Viscosity: 20 mPa s with 50 mL PD-Tips™ //; 260 mPa s with 5 mL PD-Tips™ //; 977 mPa s with 1 mL PD-Tips™ //
- Reagents that attack PP (PD-Tip™ // cylinder), HDPE (PD Tip™ // piston), LCP (PD-Tip™ // piston 0.1 mL) or PC/PBT and polycarbonate
- Temperature of instrument and reagent must be between 15° and 40° C
- Instrument and tips must not be autoclaved

Items supplied

The HandyStep® S is supplied with the following items:

- Performance certificate
- Shelf/rack mount
- One each: 0.1 mL, 1 mL and 10 mL PD-Tip™ // Precision Dispenser Tips
- Operating manual
- Two-year warranty



Setting at a glance

Easy to read volume setting indicator

Perfectly aligned

Dispensing lever optimally positioned for easy thumb movement

Simple

Combined piston locking/filling lever makes aspiration easy

Hands-free disposal

Ergonomic tip ejector, for safe and contact-free ejection of contaminated dispenser tips

Chart topper

Tip/volume chart assists with tip selection and volume setting

Big wheel

Volumes easily adjusted with a simple thumb movement

Comfortable

Finger rest provides balance, convenient control access, and relaxed pipetting

Shelf/rack mount

Shelf/rack mount keeps your HandyStep® S close at hand and retrofits to Transferpette® S carousel stand



Flexible

Compatible with PD-Tip™ // Precision Dispenser Tips, as well as many third-party tips

More than just precise—
slim, light, and dependable

HandyStep® S with BRAND® PD-Tip™ // Precision Dispenser Tips

Accuracy Table

Nominal Volume PD-Tip™ //, mL	Volume Range, µL	Stroke setting ^ % of nominal volume (A* ≤ ± %)			Stroke setting ^ % of nominal volume (CV* ≤ %)		
		1 Δ 2%	3 Δ 6%	5 Δ 10%	1 Δ 2%	3 Δ 6%	5 Δ 10%
0.1	2-10	4.0	2.4	1.6	6.0	3.0	2.0
0.5	10-50	2.5	1.5	1.0	2.5	1.5	1.0
1	20-100	2.5	1.5	1.0	2.0	1.2	0.8
1.25	25-125	2.5	1.4	0.9	2.0	1.1	0.7
2.5	50-250	1.8	1.1	0.7	1.5	0.9	0.6
5	100-500	1.8	1.1	0.7	1.5	0.9	0.7
10	200-1000	1.8	1.1	0.7	2.0	1.2	0.8
12.5	250-1250	1.8	1.1	0.8	3.2	2.0	1.4
25	500-2500	1.5	0.9	0.6	3.04	1.5	1.0
50	1000-5000	1.5	0.8	0.5	5.0	1.8	1.2

A*=Accuracy, CV*=Coefficient of Variation

*Error limits refer to the partial volume set relative to the PD-Tip™ //, obtained when instrument, PD-Tip™ // and distilled water are equilibrated at ambient temperature (20° C) and with smooth operation. The testing is according to DIN EN ISO 8655-5.

Note: the nominal volume is the maximum adjustable partial volume for each PD-Tip™ // size.

Volume table

Setting	1	1.5	2	2.5	3	3.5	4	4.5	5
PD-Tip™ //, mL	Volume, µL								
0.1	2	3	4	5	6	7	8	9	10
0.5	10	15	20	25	30	35	40	45	50
1	20	30	40	50	60	70	80	90	100
1.25	25	37.5	50	62.5	75	87.5	100	112.5	125
2.5	50	75	100	125	150	175	200	225	250
5	100	150	200	250	300	350	400	450	500
10	200	300	400	500	600	700	800	900	1000
12.5	250	375	500	625	750	875	1000	1125	1250
25	500	750	1000	1250	1500	1750	2000	2250	2500
50	1000	1500	2000	2500	3000	3500	4000	4500	5000
Steps	49	32	24	19	15	13	11	10	9

Ordering information

Description	Cat. No.	2019 List Price
HandyStep® S repeating pipette	705110	\$396.80
HandyStep® S shelf/rack mount	705130	32.60

HandyStep® touch

HandyStep® touch Repeating Pipette

- Touchscreen operation with intuitive menu navigation and integrated help function
- Two models available: HandyStep® touch or HandyStep® touch S with expanded functionality

- Menu languages: English, German, Spanish, French and Chinese
- Variable volume adjustment from 1.0 µL to 50 mL
- Inductive charging with optional charging stand

A closer look

Versatile

HandyStep® touch with the standard modes Multi-Dispensing, Auto-Dispensing, Pipetting and Favorites;

HandyStep® touch S with the additional functions Sequential Dispensing, Multi-Aspiration and Titration

Long-lasting

Many hours of continuous operation with a single battery charge

Robust

High-quality materials provide long service life, and smooth surfaces make cleaning/disinfection easy

Easy

Automatic size detection of BRAND® PD-Tip™ II

Efficient

In addition to BRAND® PD-Tip™ II, compatible third party tips can also be used.

Simple

Automatic tip ejection by the press of a button prevents contamination

Convenient

Inductive charging with the optional charging stand

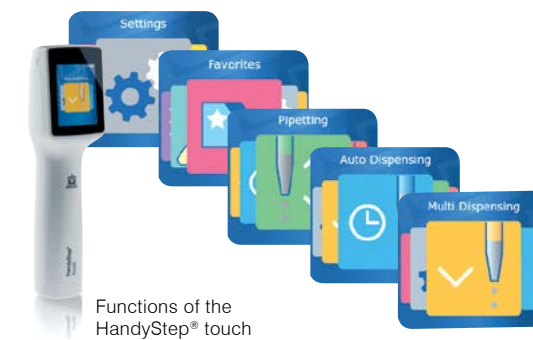
USB-C connection
For quick charging by cable

STEP button
Ergonomically arranged STEP button for effortless volume filling and delivery



Be flexible and have the right solution at hand for every application. Even complex procedures are easy to carry out – no problem with the expanded functionality of the HandyStep® touch S.

Mode	Function	HandyStep® touch	HandyStep® touch S
Multi Dispensing (MULTI-DISP)	Successive dispensing of a set volume	✓	✓
Auto Dispensing (AUTO-DISP)	Automatic dispensing by the instrument	✓	✓
Pipetting (PIP)	Pipetting a defined volume	✓	✓
Sequential Dispensing (SEQ-DISP)	Successive dispensing of different volumes	–	✓
Multi Aspirating (MULTI-ASP)	Aspirating different volumes	–	✓
Titration	Manual or successive delivery of liquids for titration	–	✓
Favorites	Saving favorites for quick access	✓	✓
Settings	Individual customization of the device (e.g. brightness or device name)	✓	✓



Functions of the HandyStep® touch



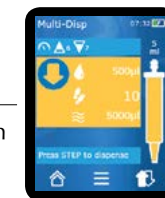
Expanded functionality on the HandyStep® touch S

The clearly structured menus make fast work with intuitive operation possible, while the most important functions and parameters are always in view.



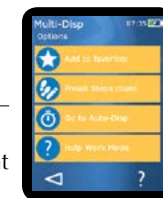
Easy to understand

Main menu with all modes for quick selection



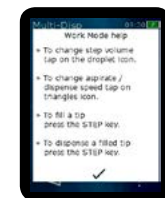
Clearly structured

Working mode with all important information



Organized

All options visible at a glance



Helpful

Internal help right where it is needed

Technical Data

Operating limits and exclusions

Liquids unsuitable for use with the HandyStep® touch and PD-Tip™ // Precision Dispenser Tips include, but are not limited to, those with:

- Vapor pressure exceeding 500 mbar
- Viscosity: 20 mPa S with 50 mL PD-Tips™ //; 260 mPa S with 5 mL PD-Tips™ //; 977 mPa S with 1 mL PD-Tips™ //
- Chemicals incompatible with tips used, see page 30 for PD-Tip™ // materials of construction ; and polycarbonate (device housing)
- Temperature of instrument and reagents must be between 15° and 40° C
- The HandyStep® touch cannot be autoclaved

Items supplied

Each HandyStep® touch includes:

- Li-Ion battery
- Universal power adapter
- Shelf/rack mount
- Five assorted volume PD-Tip™ // Precision Dispenser Tips
- Performance certificate
- Operating manual
- One-year warranty

Use the tips you want

The only electronic repetitive pipette compatible with all standard repeating pipette tips. The HandyStep® touch accepts:

- BRAND® PD-Tip™ // Precision Dispenser Tips
- BRAND® PD-Tip™ Precision Dispenser Tips
- Rainin® Encode™ Precision Dispenser Tips
- Eppendorf® Combitips advanced®
- Fisherbrand® Dispenser Tips
- VWR® Combi-Syringes
- Gilson® Repet-Tips

Accuracy and precision for the HandyStep® touch

PD-Tip™ //	Volume Range	Volumes		A* < ±				CV* ≤			
		Between	Increment	100%	50%	10%	1%	100%	50%	10%	1%
0.1 mL	1 µL-100 µL	1 µL-100 µL	0.1 µL	1.0	1.0	1.6	8.0	0.5	1.0	2.0	12
0.5 mL	5 µL-500 µL	5 µL-100 µL	0.1 µL	0.9	0.9	1	5.0	0.3	0.6	1.0	5.0
		100 µL-500 µL	1 µL								
1.0 mL	10 µL-1000 µL	10 µL-1000 µL	1 µL	0.6	0.9	1.0	5.0	0.3	0.5	0.8	4.0
		12.5 µL-100 µL	0.5 µL								
1.25 mL	12.5 µL-1250 µL	100 µL-1000 µL	1 µL	0.6	0.6	0.9	5.0	0.2	0.5	0.7	4.0
		1 mL-1.25 mL	10 µL								
2.5 mL	25 µL-2500 µL	25 µL-1000 µL	1 µL	0.5	0.6	0.7	3.5	0.15	0.3	0.6	3.0
		1 mL-2.5 mL	10 µL								
5.0 mL	50 µL-5000 µL	50 µL-1000 µL	1 µL	0.5	0.5	0.7	3.5	0.15	0.4	0.7	3.0
		1 mL-5 mL	10 µL								
10.0 mL	100 µL-10 mL	100 µL-10 mL	10 µL	0.4	0.5	0.7	3.5	0.15	0.5	0.8	4.0
		125 µL-1000 µL	5 µL								
12.5 mL	125 µL-12.5 mL	1 mL-10 mL	10 µL	0.5	0.5	0.8	3.5	0.15	0.6	1.4	6.5
		10 mL-12.5 mL	100 µL								
25.0 mL	250 µL-25 mL	250 µL-10 mL	10 µL	0.5	0.5	0.6	3.0	0.15	0.3	1.0	6.0
		10 mL-25 mL	100 µL								
50.0 mL	500 µL-50 mL	500 µL-10 mL	10 µL	0.5	0.5	0.5	3.0	0.15	0.4	1.2	9.0
		10 mL-50 mL	100 µL								

A* = Accuracy, CV* = Coefficient of variation

*Error limits refer to the nominal volumes and partial volumes relative to the PD-Tip™ // obtained with instrument and distilled water at equilibrium with ambient temperature at 20° C. . The tolerances specified in ISO 8655 are not exceeded. The nominal (100%) volume is the maximum volume which is printed on the PD-Tip™ //.



Multi dispensing with the HandyStep® touch and PD-Tip™ //



Sequential dispensing with the HandyStep® touch S and PD-Tip™ //

The perfect team

Automatic size detection with PD-Tip™ // from BRAND®

Patented coding on the pistons of the PD-Tip™ // from BRAND® allows automatic tip size recognition with the HandyStep® touch, saving time and preventing errors. After inserting a PD-Tip™ //, the size is automatically recognized and displayed, making it easy to select the volume to be dispensed. The next time a new PD-Tip™ // of the same size is inserted, all instrument settings are maintained. Easy!

BRAND® encoded PD-Tip™ // Precision Dispenser 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™ // Precision Dispenser Tips are an excellent choice for the BRAND® HandyStep® S, HandyStep® electronic, and HandyStep® touch repeating pipettes; the black-handled Eppendorf® Repeater® 4780*; the Fisherbrand® repeating pipette; the Rainin® AutoRep™ E and AutoRep™ S; the Gilson® Repetman®; and other repeating pipettes using standard tips. PD-Tip™ // Precision Dispenser Tips are encoded for automatic recognition by the BRAND® HandyStep® touch and HandyStep® electronic repeating pipettes, the Rainin® AutoRep™ E, and the Gilson® Repetman®.
- **Reliable**—A precision seal between the piston and cylinder ensures smooth operation, increased accuracy, and increased precision. Extended piston design minimizes dead volume and maximizes fluid utilization.
- **Quality**—Manufactured from high quality materials PD-Tip™ // Precision Dispenser Tips are made entirely from high-quality virgin polyethylene and polypropylene. (Piston of 0.1 mL tip is liquid crystal polymer-LCP).



Support stand with HandyStep® touch



Inductive charging with the optional charging stand

Description	Cat. No.	2019 Cat. No.
HandyStep® touch	705200	\$1,055.00
HandyStep® touch S	705210	1,299.00
Charging stand	705220	345.00
Support stand	705230	144.00
Shelf/rack mount	705235	35.00
Universal AC adapter	705250	85.00
Spare battery	705225	80.00

PD-Tip™ // Precision Dispenser Tips

The perfect tips for your repeating pipette

Calibration support

BRAND® PD-Tip™ // Precision Dispenser 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™ // Precision Dispenser 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 130.



Capacity, mL	Pack of	Classic tip Cat. No.	PD-Tip //	2019 List Price
PD-Tip™ // Precision Dispenser Tips, non-sterile				
0.1 mL	100	702402	705700	\$124.00
0.5 mL	100	702370	705702	124.00
1 mL	100	702406	705704	124.00
1.25 mL	100	702372	705706	124.00
2.5 mL	100	702374	705708	124.00
5 mL	100	702376	705710	124.00
10 mL	100	702407	705712	124.00
12.5 mL	100	702378	705714	124.00
25 mL, (one adapter included)	50	702380	705716	84.00
50 mL, (one adapter included)	25	702382	705718	42.00
PD-Tip™ // Precision Dispenser Tips, non-sterile, assorted pk. 0.5, 1, 1.25, 2.5, 5, 10 and 12.5 mL sizes	20/size	702368	705720	168.00
Adapter for 25 mL and 50 mL PD-Tip™ // Precision Dispenser Tips, non-sterile, PP, autoclavable	10	702398	702398	76.20

Capacity, mL	Pack of	Classic tip Cat. No.	PD-Tip //	2019 List Price
PD-Tip™ Precision Dispenser Tips //, BIO-CERT® sterile				
Individually wrapped				
0.1 mL	100	702683	705730	\$170.00
0.5 mL	100	702684	705732	170.00
1 mL	100	702685	705734	170.00
1.25 mL	100	702686	705736	170.00
2.5 mL	100	702688	705738	170.00
5 mL	100	702690	705740	170.00
10 mL	100	702691	705742	170.00
12.5 mL	100	702692	705744	170.00
25 mL, (one adapter included)	25	702694	705746	52.00
50 mL, (one adapter included)	25	702696	705748	52.00
Adapter for 25 mL and 50 mL PD-Tip™ // BIO-CERT® sterile, PP, autoclavable	5	702699	702399	76.20

Transferpettor™ Positive Displacement Pipette



The Transferpettor™ positive displacement pipette is ideal for use with liquids that render traditional air-displacement pipettes ineffective. Unlike air displacement pipettes, the piston of the Transferpettor™ directly expels the media from the tip, wiping the tip walls completely clean. This results in negligible residual wetting and highly accurate, reproducible results, especially with viscous, foaming, high-vapor-pressure, and other “problematic” liquids.

The Transferpettor™ is suitable for use with viscous solutions and high density media such as concentrated protein solutions, oils, fats, resins, and glycerin. It is also suitable for use with high-vapor-pressure media (up to 500 mbar), including alcohols, acetone, and hydrocarbons that would otherwise vaporize in an air displacement tip.

Technical Data

Operating limits and exclusions

Liquids unsuitable for use with the Transferpettor™ include, but are not limited to those with:

- Density exceeding 13.6 g/cm³
- Viscosity exceeding 40,000 cSt (mm²/s), depending on instrument capacity
- Vapor pressure exceeding 500 mbar
- Chemicals that attack either PP or PE (see page 128)
- Temperature of instrument and reagents must be between 15° and 40° C
- Instrument, tips and seals are not autoclavable

Items supplied

The Transferpettor™ pipette includes:

- One tip and seal
- Seal mounting/removal tool
- Performance certificate
- Operating manual
- One-year warranty

Capacity, µL	A* < ±		CV* ≤		Max Viscosity	Subdivision,	Color	Cat. No.	2019 List Price
	%	µL	%	µL	mm ² /sec	µL			
Transferpettor™									
100-500 µL	0.5	2.5	0.2	1.0	40,000	1.0	Green	702804	\$363.20
200-1000 µL	0.5	5.0	0.2	2.0	20,000	1.0	Yellow	702806	363.20
1-5 mL	0.5	25.0	0.2	10.0	6,000	10	Red	702810	363.20
2-10 mL	0.5	50.0	0.2	20.0	2,000	10	Orange	702812	363.20
Reusable Transferpettor™ Tips - Polypropylene, pack of 10									
For Transferpettor™, 100-500 µL							Green	702852	29.20
For Transferpettor™, 200-1000 µL							Yellow	702854	29.20
For Transferpettor™, 1-5 mL							Red	702858	29.20
For Transferpettor™, 2-10 mL							Orange	702860	29.20
Reusable Transferpettor™ Piston Seals - Polyethylene, pack of 10									
For Transferpettor™, 100-500 µL							Green	702864	47.60
For Transferpettor™, 200-1000 µL							Yellow	702866	47.60
For Transferpettor™, 1-5 mL							Red	702870	47.60
For Transferpettor™, 2-10 mL							Orange	702872	47.60
Transferpettor™ Station Keeps 2 instruments, tips, and seals conveniently at hand in the workplace								702890	166.80

A*=Accuracy, CV*=Coefficient of Variation
* The value of accuracy and coefficient of variation are final test values referring to the delivered nominal volume, instrument and distilled water at equilibrium with ambient temperature (20° C/68° F) and with smooth operation.



Tip

Piston Seal