

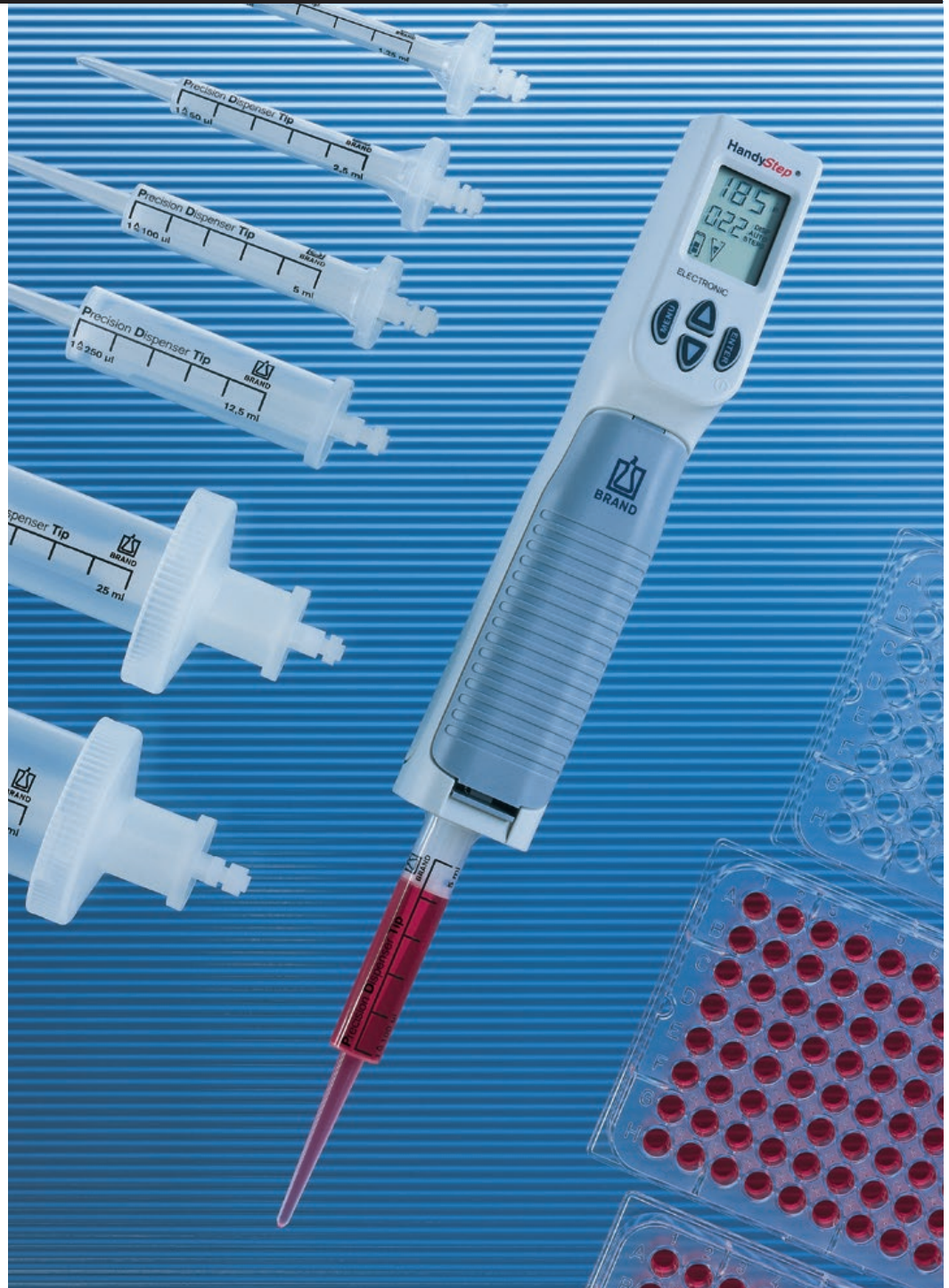
Versatile – Compatible – Simple to operate?



HandyStep[®] electronic

F I R S T C L A S S · B R A N D

- **7.01 μ l – 70.1 μ l – 1.01 ml – 11.4 ml?**
Any volume you require from 1.0 μ l to 50 ml
- **Patented automatic tip size recognition** of the PD-Tips from BRAND with size encoding
- **Compatible system:** will accept most third-party dispenser tips
- **Versatile operation** with 3 modes: Dispensing – Automatic Dispensing – Pipetting
- **Patented learning function** for individual adjustments of intervals in automatic dispensing
- **Separate speed adjustment** for filling and dispensing, independently adjustable
- **NiMH battery pack** – easy to replace



Very simple operation

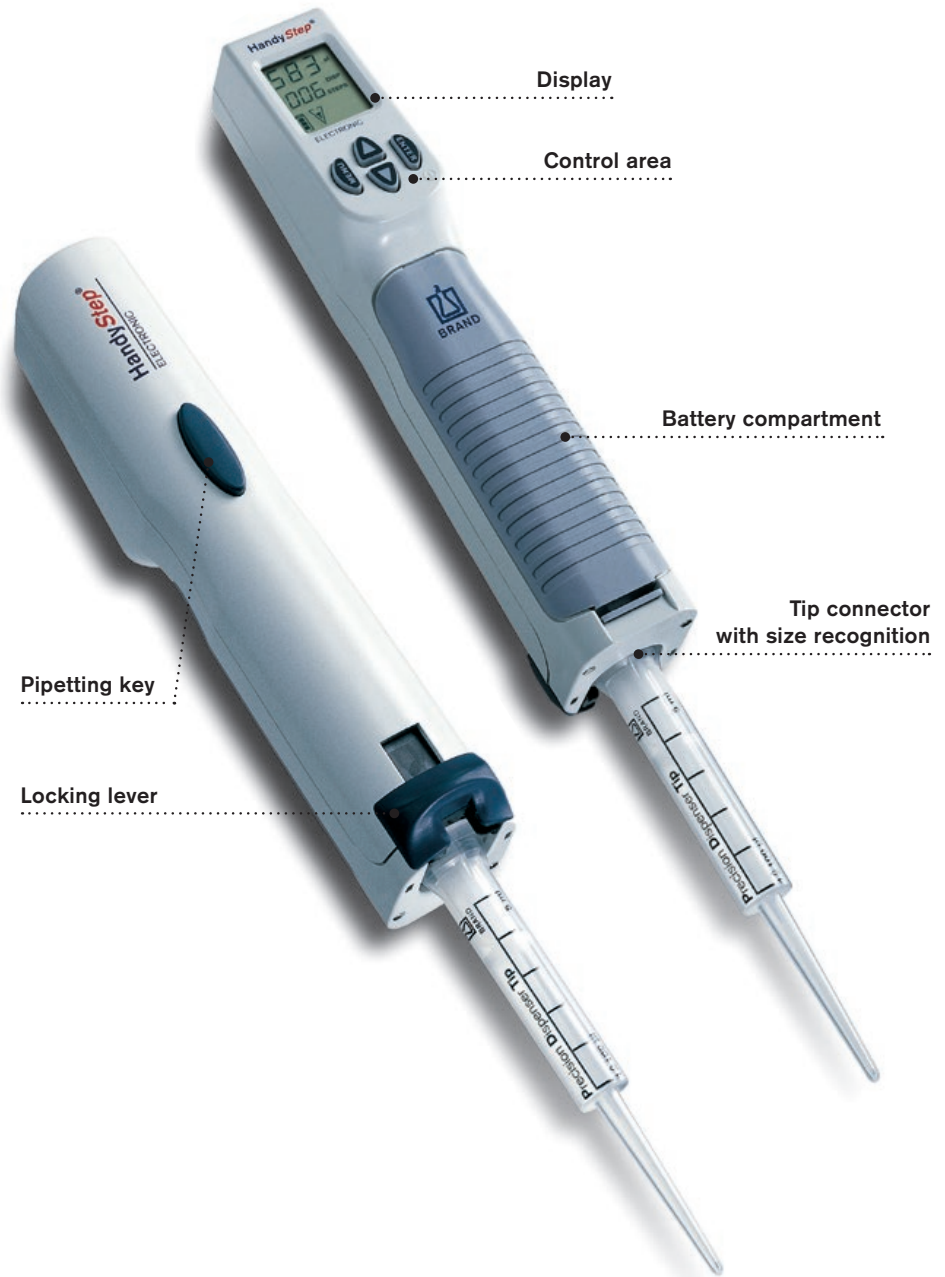
Intuitive, push-button control

Simple operation, intuitive menu guide

The HandyStep® electronic is a microprocessor-controlled battery-operated repetitive pipette with automatic tip size recognition for PD-Tips from BRAND. It is designed to make work fast and convenient.

7.01 µl – 70.1 µl – 1.01 ml – 11.4 ml? No problem!

The continuous volume adjustment from 1 µl to 50 ml permits individual volume selection for serial dispensing in routine and critical applications. No hassle with recalculating; it's a real time saver!



The charging dock – intelligent recharging without down-time

The HandyStep® electronic is powered by a rechargeable NiMH battery pack. The battery is automatically recharged by placing the instrument into the charging dock. To avoid any down-time, a second battery pack can be charged in the dock while working with the HandyStep® electronic.

The instrument will be ready to use at all times. The battery can be replaced in just a few seconds, and all stored data

are preserved while the battery is being replaced. The advanced NiMH batteries do not suffer from the memory

effect associated with conventional NiCd batteries.

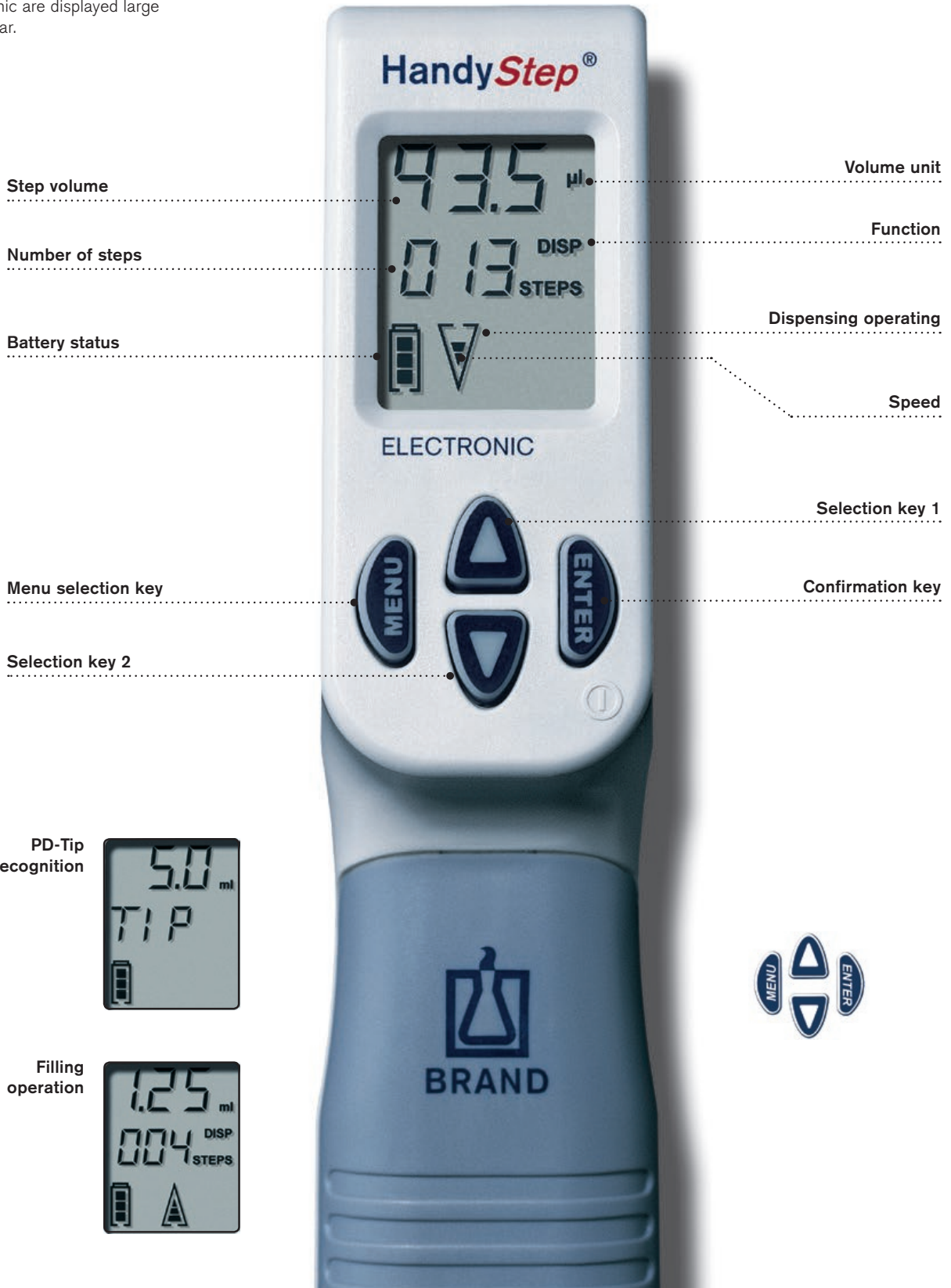


Clear design

All information at a glance!

Instant recognition

All settings and operating details of the HandyStep® electronic are displayed large and clear.



3 Functions

Dispensing, Automatic Dispensing, Pipetting

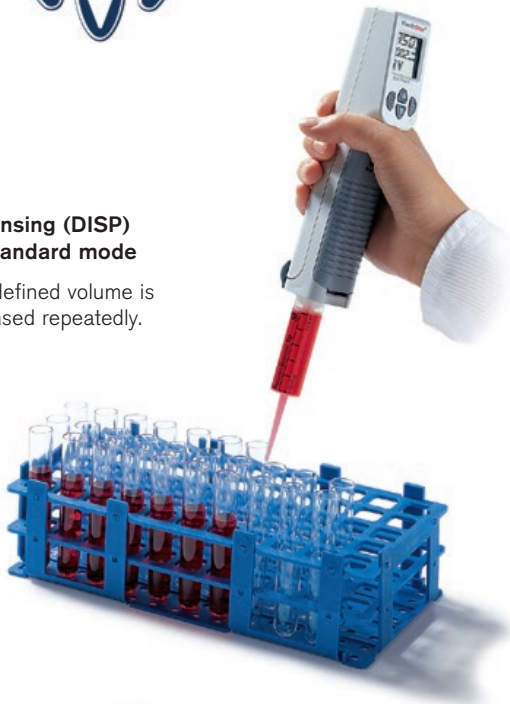
The HandyStep® electronic provides three different functions:

1. Dispensing (DISP)
2. Automatic Dispensing (AUTO-DISP), patented
3. Pipetting (PIP)
... and all with continuously variable volume!



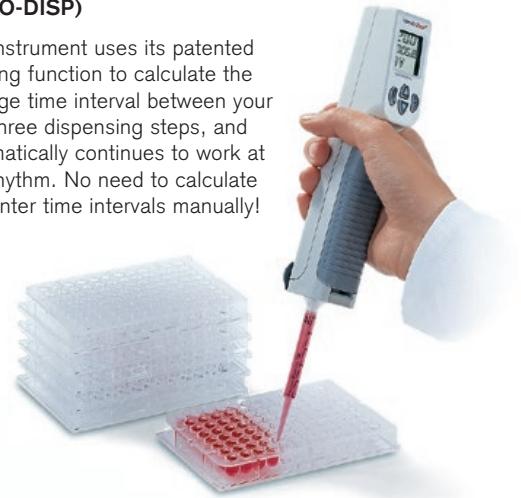
Dispensing (DISP) the standard mode

A predefined volume is dispensed repeatedly.



Automatic Dispensing (AUTO-DISP)

The instrument uses its patented learning function to calculate the average time interval between your first three dispensing steps, and automatically continues to work at this rhythm. No need to calculate and enter time intervals manually!



Pipetting (PIP)

Works like a positive displacement pipette. Ideal for pipetting viscous or volatile fluids.



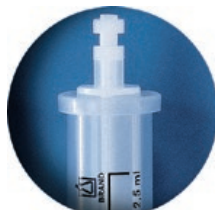
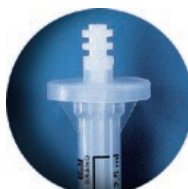
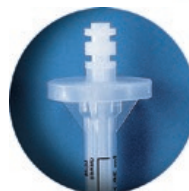
Automatic tip size recognition!

PD-Tips from BRAND



The ideal combination: PD-Tips from BRAND and HandyStep® electronic

The HandyStep® electronic repetitive pipette saves time and prevents errors through automatic tip size recognition of the PD-Tips from BRAND. The size of these tips is encoded in their piston (patented). After inserting the tip, the size is automatically recognized and displayed, making it easy to select the volume to be dispensed. When a new PD-Tip of the same size is inserted, all instrument settings are maintained.



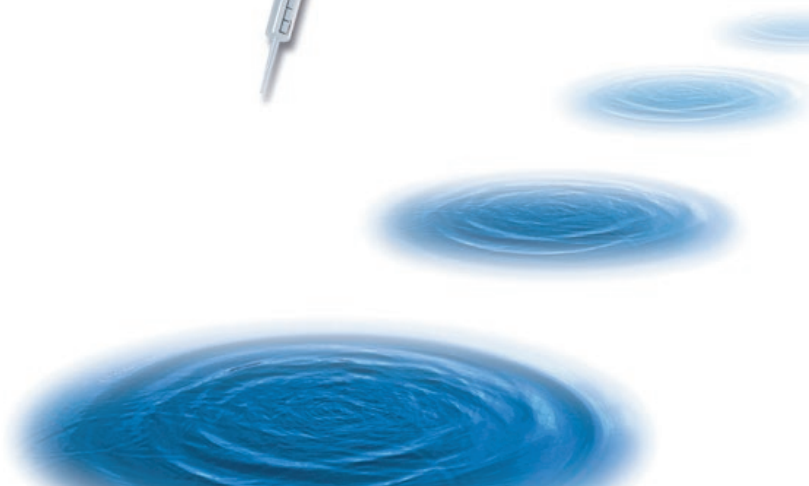
PD-Tips – versatile as before.

The PD-Tips, with size-encoding, continue to fit the HandyStep® S, Eppendorf® Multipipette® 4780/Repeater™, EDOS 5221, GILSON® REPETMAN™, Rainin AutoRep™ E, Rainin AutoRep™ M, Rainin AutoRep™ S and other compatible repeating pipette systems.



Compatible with third- party dispenser tips!

The special tip connector of the HandyStep® electronic will accept most common dispenser tips such as Combitips®, Combitips® plus and others. Simply enter the tip size manually.





Technical data

HandyStep® electronic

Each HandyStep® electronic is DE-M marking and supplied with performance certificate, NiMH battery pack, charging dock and AC adapter. One each PD-Tip size 0.5 ml, 1.25 ml, 2.5 ml, 5 ml and 12.5 ml.



AC adapter	Cat. No.
Europe (continental) (230 V/50 Hz)	7050 00
UK/Ireland (230 V/50 Hz)	7050 01
USA/Japan (110 V/50-60 Hz)	7050 02
Australia (240 V/50 Hz)	7050 03
without charging dock	7050 04

Adapter

for size 25 and 50 ml, PP, autoclavable.

Description	Cat. No.
non-sterile, pack of 10 pcs	7023 98
sterile, BIO-CERT® pack of 5 pcs	7023 99

NiMH battery pack

Pack of 1.

Cat. No.	7050 25
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PD-Tips (Precision Dispenser Tips), with tip size encoding

Capacity ml	Pack of	sterile ¹⁾ Cat. No.	BIO-CERT® Cat. No.	non-sterile Cat. No.
0,1	100	7024 04	7026 83	7024 02
0,5	100	7023 84	7026 84	7023 70
1,0	100	7024 36	7026 85	7024 06
1,25	100	7023 86	7026 86	7023 72
2,5	100	7023 88	7026 88	7023 74
5,0	100	7023 90	7026 90	7023 76
10,0	100	7024 38	7026 91	7024 07
12,5	100	7023 92	7026 92	7023 78
25,0 ¹⁾	50/25 ²⁾	7023 94	7026 94	7023 80
50,0 ¹⁾	25	7023 96	7026 96	7023 82
PD-Tip Set, non-sterile (20 PD-Tips each in sizes of: 0.5, 1.0, 1.25, 2.5, 5.0, 10.0, 12.5 ml)				7023 68



¹⁾ incl. 1 adapter ²⁾ sterile/endotoxin-free, packed individually
³⁾ size 25 ml: non-sterile in pack of 50; sterile in pack of 25

Accuracy table (PD-Tips from BRAND, 20 °C ,Ex')

PD-Tip size	Volume range	Nominal volume (A* ≤ ± %)				Nominal volume (CV* ≤ %)			
		100%	50%	10%	1%	100%	50%	10%	1%
0.1 ml	1.0 µl - 100 µl	1.0	1.0	1.6	8.0	0.5	1.0	2.0	12.0
0.5 ml	5.0 µl - 500 µl	0.9	0.9	1.0	5.0	0.3	0.6	1.0	5.0
1.0 ml	10.0 µl - 1000 µl	0.6	0.9	1.0	5.0	0.3	0.5	0.8	4.0
1.25 ml	12.5 µl - 1250 µl	0.6	0.6	0.9	5.0	0.2	0.5	0.7	4.0
2.5 ml	25.0 µl - 2500 µl	0.5	0.6	0.7	3.5	0.15	0.3	0.6	3.0
5.0 ml	50.0 µl - 5000 µl	0.5	0.5	0.7	3.5	0.15	0.4	0.7	3.0
10.0 ml	100 µl - 10 ml	0.4	0.5	0.7	3.5	0.15	0.5	0.8	4.0
12.5 ml	125 µl - 12.5 ml	0.5	0.5	0.8	3.5	0.15	0.6	1.4	6.5
25.0 ml	250 µl - 25 ml	0.5	0.5	0.6	3.0	0.15	0.3	1.0	6.0
50.0 ml	500 µl - 50 ml	0.5	0.5	0.5	3.0	0.15	0.4	1.2	9.0

* 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, and with smooth operation. The error limits defined in ISO 8655 are not exceeded. A = Accuracy, CV = Coefficient of variation

The nominal volume is the maximum volume printed on the PD-Tip.

HandyStep® electronic is made in Germany under BRAND patents PL 178640, PL 179567, EP 0691158, DE 19915066, US 6740295, EP 1110612, US 6540964, EP 1177831 and US 6841129.

The use of dispenser tips with a coding on the plunger head is subject to the above BRAND patents.

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More than just precise – slim, light and dependable!



HandyStep® Solutions for Science

F I R S T C L A S S · B R A N D

The **HandyStep® S** repetitive pipette fits the hand like a glove, offers highly dependable performance and is simple to operate.

- **Truly stress-free!**
Well-balanced weight distribution, ergonomic control element layout
- **Always dependable!**
Robust construction, inspired design, and innovative polymers
- **Always ready to use!**
No battery-dependent display, no battery change!
Integrated volume table
- **Highly versatile!**
10 PD-Tip sizes, 59 different volumes. Accepts third-party dispenser tips!
- **Contact-free!**
Eject tips with the press of a button – never any tip contact!



At a glance ...

HandyStep® S Solutions for Science

HandyStep® S – the repetitive pipette for any occasion!

Ideal for routine or research applications in diagnostics, molecular biology, environmental analysis, and many more.

HandyStep® S and PD-Tips work on the direct displacement principle. This offers the highest-precision dispensing of liquid media with high viscosity, high density, or high vapor pressure. Direct displacement permits contamination-free operation, since no aerosols are formed.

More data and facts:

- increased chemical resistance through innovative plastic materials
- easy tip mounting – PD-Tip is now simply inserted from below
- dispensed volume range from 2 µl to 5 ml
- up to 49 dispensing steps
- weighs only 108 g
- suitable for use with BRAND PD-Tips, Encode™ tips, Repeat tips, Combipips®, Combipips® plus and other compatible dispenser tips



Repetitive dispensing



Dispenser tip ejection

Straightforward!
Double-sided volume table on the back side for quick adjustments!
(see below)

Precise!
Clear, large stroke selection indicator – for fast, simple checking.

Perfect!
Optimally positioned dispensing lever, easy on the thumb.

Rapidi!
One-handed volume adjustment for right- and left-handed operators – even with gloves!

Comfortabel!
Ergonomic finger loop to keep the hand relaxed, important when conducting long series!

Rack mount for HandyStep® S



The rack mount also fits the Transferpette® S bench-top rack.

Safe!
At the push of a button! Ergonomic eject button for contact-free, safe ejection of contaminated dispenser tips.

Simplified!
Just one lever for locking the piston and filling the PD-Tip!

Versatile!
In addition to PD-Tips from BRAND, compatible dispenser tips from other manufacturers can also be used.

Fast volume selection
The double-sided volume table on the back side shows all the necessary stroke setting information at a glance.



Volume table HandyStep® S with PD-Tips

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

Technical Data



HandyStep® S

DE-M marking, with serial number, performance certificate, operating manual, shelf/rack mount, 3 PD-Tips: 0.1 ml, 1 ml and 10 ml. Pack of 1.

Cat. No. 7051 10



Shelf / Rack mount

for HandyStep® S. Pack of 1.

Cat. No. 7051 30

PD-Tips (Precision Dispenser Tips) from BRAND

Capacity ml	Pack of	non sterile Cat. No.	sterile** Cat. No.	BIO-CERT® Cat. No.
0.1	100	7024 02	7024 04	7026 83
0.5	100	7023 70	7023 84	7026 84
1	100	7024 06	7024 36	7026 85
1.25	100	7023 72	7023 86	7026 86
2.5	100	7023 74	7023 88	7026 88
5	100	7023 76	7023 90	7026 90
10	100	7024 07	7024 38	7026 91
12.5	100	7023 78	7023 92	7026 92
25*	50/25***	7023 80	7023 94	7026 94
50*	25	7023 82	7023 96	7026 96



PD-Tips BIO-CERT® are sterile, free of endotoxin, DNA, RNase and ATP.

* incl. 1 adapter, ** sterile/free of endotoxin – single wrapped, *** PD-Tips 25 ml: non sterile pack of 50 / sterile pack of 25

Accuracy Table (PD-Tips from BRAND, 20 °C 'Ex')

PD-Tip size ml	Volume range µl	A* ± %			CV* ≤ %		
		Stroke setting ± % of nominal volume 1 ± 2%	3 ± 6%	5 ± 10%	Stroke setting ± % of nominal volume 1 ± 2%	3 ± 6%	5 ± 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	3.0	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

The nominal volume is the maximum volume printed on the PD-Tip.

Error limits refer to the partial volume set relative to the PD-Tip size, obtained at equal temperature (20 °C) of instrument, tip, ambience and dist. H₂O, and with smooth, steady operation. The testing is according to DIN EN ISO 8655-5.

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