Versatile – Compatible – Simple to operate?

HandyStep®
electronic

■ **7.01 µl – 70.1 µl – 1.01 ml – 11.4 ml?**
Any volume you require from 1.0 µl to 50 ml

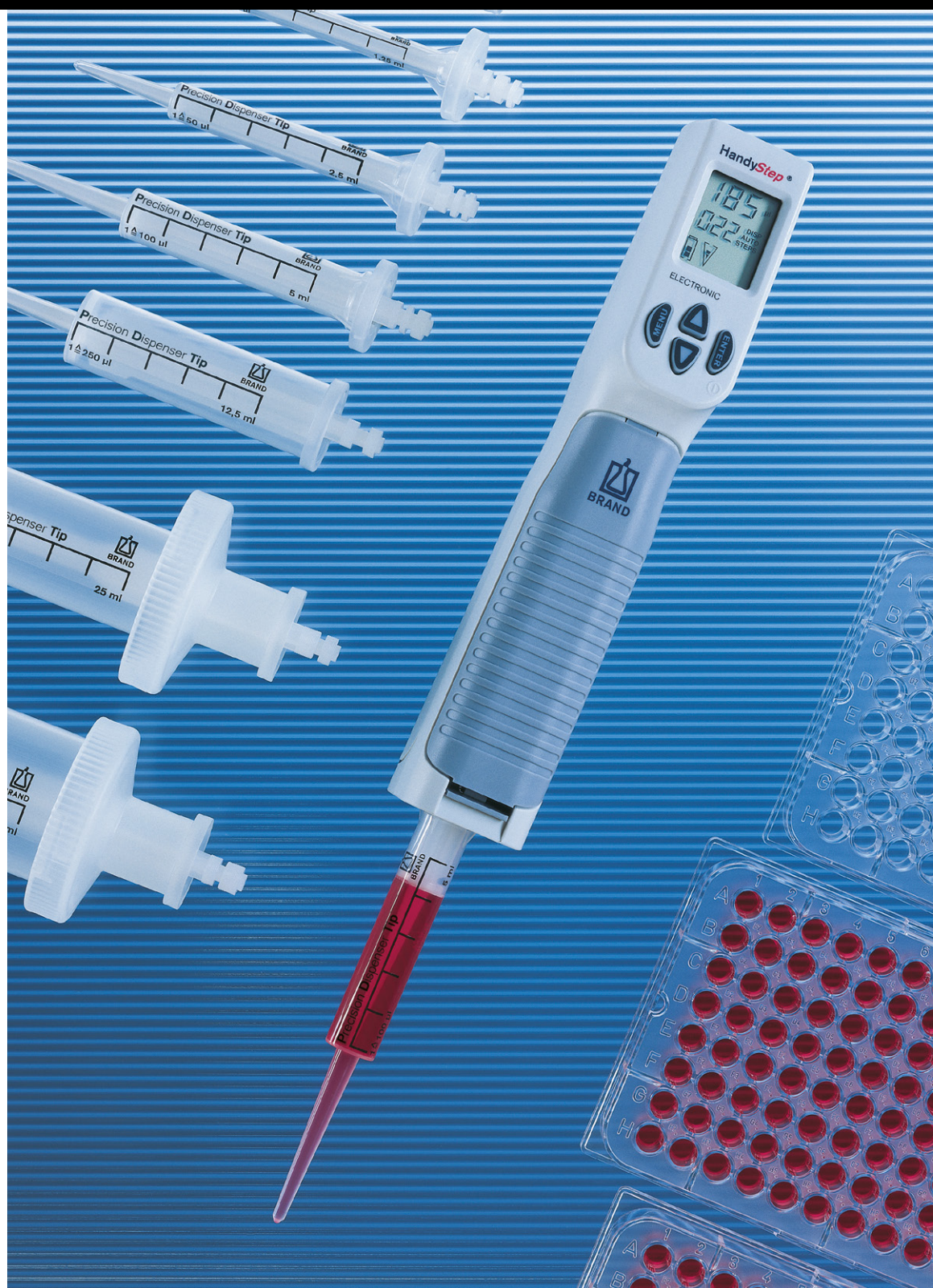■ **Patented automatic tip size recognition** of the PD-Tips from BRAND with size encoding

■ **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

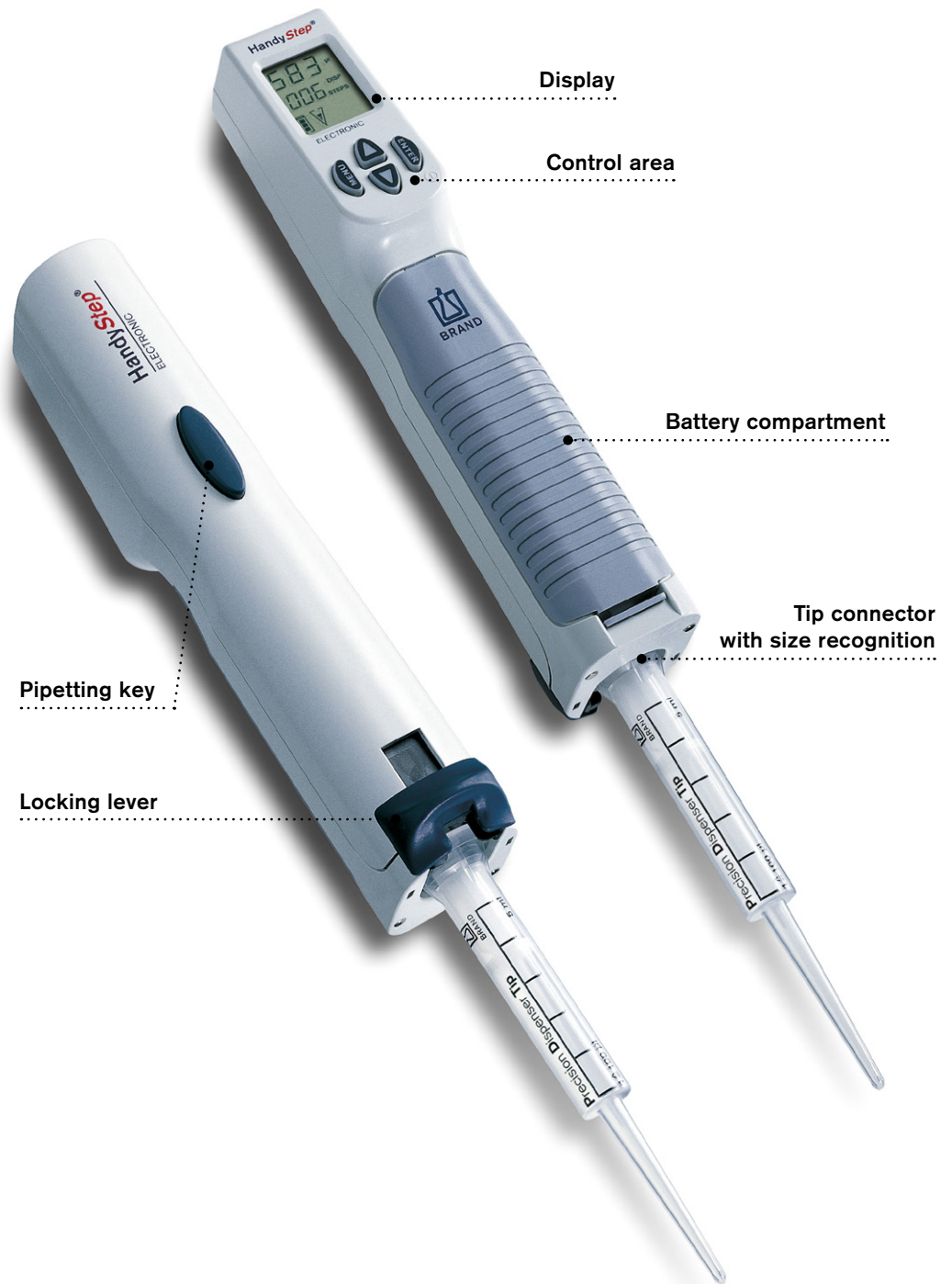■ **NiMH battery pack** – easy to replace

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!

Display

Control area

Battery compartment

Tip connector with size recognition

Pipetting key

Locking lever

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.

Step volume

Number of steps

Battery status

HandyStep®

ELECTRONIC

MENU · ENTER

BRAND

Volume unit

Function

Dispensing operating

Speed

Selection key 1

Menu selection key

Confirmation key

Selection key 2

PD-Tip recognition

Filling operation

3 Functions

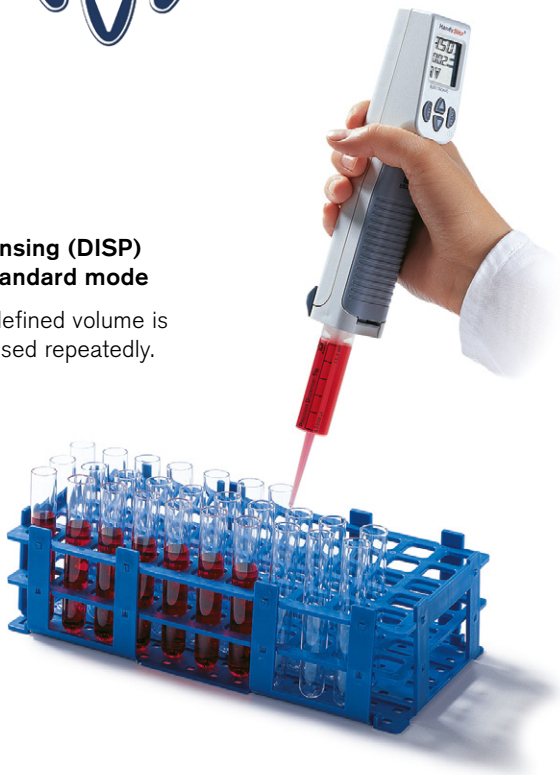## Dispensing, Automatic Dispensing, Pipetting

The HandyStep® electronic provides three different functions:

1. Dispensing (DISP)

2. Automatic Dispensing (AUTO-DISP), patended

3. Pipetting (PIP)
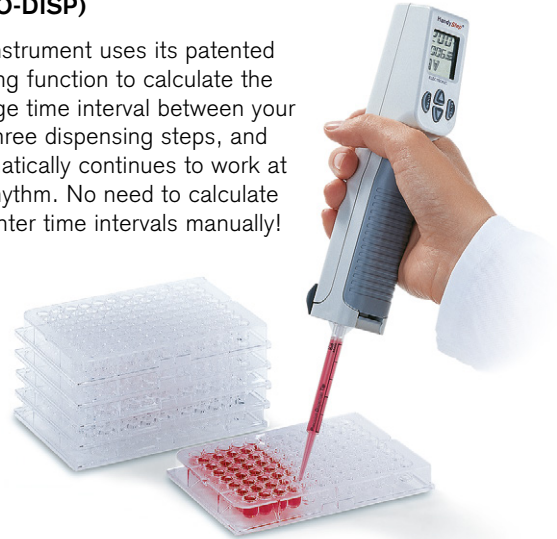   … and all with continuously variable volume!

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!

Dispensing (DISP) the standard mode

A predefined volume is dispensed repeatedly.

Pipetting (PIP)

Works like a positive displacement pipette. Ideal for pipetting viscous or volatile fluids.
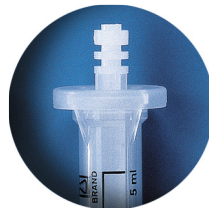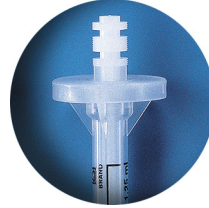
Automatic tip size recognition!

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.
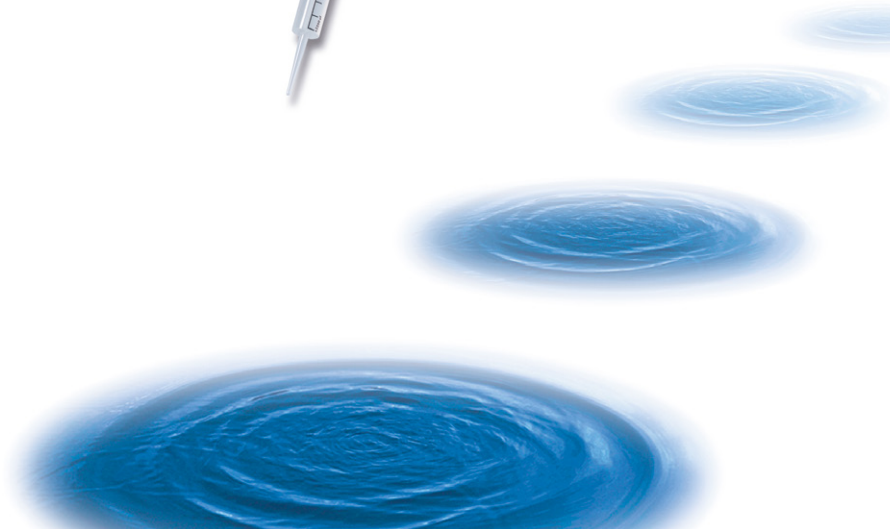
PD-Tips – versatile as before.

The PD-Tips, with size-encoding, continue to fit the HandyStep® S, Eppendorf® Multipette® 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

PD-Tips (Precision Dispenser Tips), with tip size encoding

Capacity ml	Pack of	sterile [II] 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 [I]	50/25 [III]	7023 94	7026 94	7023 80
50,0 [I]	25	7023 96	7026 96	7023 82

	Cat. No.
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

[I] incl. 1 adapter [II] sterile/endotoxin-free, packed individually
[III] 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 US 6,740,295B2, US 6,540,964B2, EP 1177831B1 and US 6,841,129B2.
The use of dispenser tips with a coding on the plunger head is subject to the above BRAND patents.

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