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Proline®**CE****IVD**

The original electronic for all pipetting needs

In 1991 Biohit introduced its first electronic pipettes. Since then, Biohit Proline® electronic pipettes have offered effortless and rapid pipetting with high levels of accuracy and precision. Some say that the Proline range offers complete solutions for all pipetting needs. Yes, we think that too. Proline pipettes are ergonomically designed and the tip ejection is easily operated with four fingers to avoid strain and fatigue during pipetting. Proline electronic is available in single- and multichannel models, covering the volume range of 0.2 to 5000 µl.





Proline electronic – for all pipetting needs

- Lightweight ergonomic design
- Single-point calibration
- 5 speeds for aspiration and dispensing
- Wide volume range
- Design that helps prevent Repetitive Strain Injury (RSI)
- Option of single- or 4-place carousel charging stands (either needed for operation)
- Comprehensive range of the most important liquid handling protocols

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Induction charging provides corrosion-free mounting

Feather-touch button activates all pipetting actions and reduces hand fatigue

Compound lever design and side position gives easy tip ejection

Ejector collar and tip cone can be removed for easy cleaning and maintenance

Simple keypad allows easy, error-free selection of liquid handling modes, volumes and speeds

Computerized drive system with fast DC-motor lets you work more efficiently than with mechanical pipettes

Requires charging stand

Durable tip cone materials provide excellent chemical resistance

Models > 250 µl offer replaceable Safe-Cone Filters to help prevent contamination and damage

Proline Single-Channel Performance specifications and ordering details

Cat. No.	Channels	Volume Range (µl)	Increment (µl)	Test Volume (µl)	Inacc. (%)	Impr. (%)	Safe-Cone Filters Standard Plus		Tip ID
710520	1-channel	0.2-10 µl	0.10	10 5 1 0.2	0.90 % 1.00 % 2.50 % 12.00 %	0.50 % 0.80 % 1.80 % 10.00 %	-	-	A, L, M
710010	1-channel	5-100 µl	1.00	100 50 10 5	0.40 % 0.70 % 2.00 % 2.50 %	0.15 % 0.30 % 1.00 % 1.80 %	-	-	C, O, V
710030	1-channel	10-250 µl	5.00	250 125 25 10	0.40 % 0.60 % 2.00 % 2.00 %	0.15 % 0.20 % 1.00 % 1.00 %	-	-	C, D, Q
710100	1-channel	10-500 µl	5.00	500 250 50 10	0.40 % 0.70 % 1.50 % 9.00 %	0.15 % 0.20 % 0.80 % 2.00 %	721006	721016	E, G, R
710020	1-channel	50-1000 µl	10.0	1000 500 100 50	0.60 % 0.80 % 2.00 % 2.00 %	0.15 % 0.20 % 0.60 % 1.00 %	721006	721016	E, G, S
710040	1-channel	50-1200 µl	5.00	1200 600 120 50	0.40 % 0.70 % 2.00 % 2.00 %	0.15 % 0.20 % 0.60 % 1.00 %	721006	721016	H, T, Z
710500	1-channel	100-5000 µl ^{*1}	50.0	5000 2500 500	0.50 % 0.80 % 0.80 %	0.15 % 0.25 % 0.60 %	721006	721016	J

FINAS Accredited Calibration Certificate (ISO 17025) available for new pipettes – see page 67 for details

The specifications are type test specifications achieved under strictly controlled conditions (ISO 8655). Due to Biohit's continuous R&D, specifications may change without prior notice.

^{*1}Note: Minimum volume in P-mode is 500 µl. The 100 µl is possible in d-mode.

Note: Proline electronic pipette needs a charging stand for operation.

Clear LCD keeps you informed of the pipette's current task

Feather-touch button activates all piston actions

Tip ejector allows effortless tip ejection even in 12-channel models

Computerized drive system with fast DC-motor lets you work more efficiently than with mechanical pipettes

Individual piston/tip cone assemblies allow easy repair and maintenance

Models > 10 µl have replaceable Safe-Cone Filters to help prevent contamination and damage

Dispensing head rotates for optimum pipetting convenience


8- and 12-channel pipettes are available



Requires charging stand

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Proline Multichannel Performance specifications and ordering details

Cat. No.	Channels	Volume Range (µl)	Increment (µl)	Test Volume (µl)	Inacc. (%)	Impr. (%)	Safe-Cone filters		Tip ID
							Standard	Plus	
710200	8-channel	0.2-10 µl	0.10	10 5 1	0.90 % 1.50 % 4.00 %	0.50 % 0.80 % 4.00 %	-	-	A, L, M
710210	8-channel	5-100 µl	1.00	100 50 10 5	0.50 % 0.70 % 2.50 % 4.00 %	0.20 % 0.30 % 1.50 % 2.50 %	721014	-	C, D, O, P, Q, V
710220	8-channel	25-250 µl	5.00	250 125 25	0.40 % 0.60 % 1.50 %	0.15 % 0.20 % 1.00 %	721014	-	D, Q
710800	8-channel	50-1200 µl	10.0	1200 600 120 50	0.50 % 1.00 % 3.00 % 8.00 %	0.15 % 0.20 % 1.20 % 1.50 %	721006	721016	H, T, Z
710300	12-channel	0.2-10 µl	0.10	10 5 1	0.90 % 1.50 % 4.00 %	0.50 % 0.80 % 4.00 %	-	-	A, L, M
710310	12-channel	5-100 µl	1.00	100 50 10 5	0.50 % 0.80 % 2.50 % 4.00 %	0.20 % 0.40 % 1.50 % 2.50 %	721014	-	C, D, O, P, Q, V
710320	12-channel	25-250 µl	5.00	250 125 25	0.40 % 0.60 % 1.50 %	0.15 % 0.20 % 1.00 %	721014	-	D, Q
710810	12-channel	50-1200 µl	10.0	1200 600 120 50	0.80 % 1.00 % 3.00 % 8.00 %	0.15 % 0.20 % 1.20 % 1.50 %	721006	721016	H, T, Z

The specifications are type test specifications achieved under strictly controlled conditions (ISO 8655). Due to Biohit's continuous R&D, specifications may change without prior notice. Note: Proline electronic pipette needs a charging stand for operation.





Stands & Accessories

Cat. No.	Item
510001	Proline Charging Stand for one pipette*
511601	Proline Charging Carousel for 4 pipettes*
711002	Proline Replacement Battery

* Incl. Universal AC-adaptor (with Euro, US/Jpn, UK and China plugs)

Proline charging options

- 1-Place Charging Stand
- 4-Place Charging Carousel

The Proline electronic pipettes can be charged with a 1-place charging stand or a 4-place charging carousel.

The compact design of the 4-place charging carousel is ideal for saving bench space in the laboratory and allows the pipette to be rested between dispensing routines. The 4-place rotating head provides easy access to the desired unit.

Proline operation modes

- Pipetting
- Pipetting with mixing
- Reverse Pipetting (excl. 1200 and 5000 models)
- Multiple Dispensing
- Diluting (excl. multichannel 1200 model)
- Diluting with mixing (excl. multichannel 1200 model)
- Sequential Dispensing (only 1200 and 5000 models)
- Multi-Aspirating (only 1200 models)

For pipetting modes, please go to page 82.

User-independent accuracy with Biohit electronic pipettes

Whilst experience and good pipetting practice are essential for reproducible results with mechanical pipettes, the electronic pipettes produce precise results regardless of user experience.

Proline, like all other Biohit's electronic pipettes, features the patented DC-motor concept, which enables more precise and smooth piston movement compared to mechanical pipetting. This means superior accuracy and precision, in all pipetting actions. Results are always reproducible even with small volumes independent on experience, as hand control is totally eliminated.

Nine persons were divided into three groups according to their experience in pipetting. Each person pipetted distilled water with the same Biohit Proline mechanical and electronic pipettes (using P-mode). The imprecision of ten subsequent results of volumes 10, 25, 50, 100, 200 and 1000 µl was recorded and the results are detailed in pictures on the right.

