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BIOHIT

Innovating for Health

eLINE®



Autoclavable
lower parts



IVD



Leader in performance & ergonomics – eLINE®

When you need to pipette and dispense liquids as comfortably as possible, your choice should be eLINE. Twice as fast as a mechanical pipette, this honorary mentioned (Pro Finnish Design 2001) electronic pipette takes analytical performance and ergonomic innovation to totally new levels! Its fully electronic operation – including tip ejection – gives you the chance to concentrate the work-effort to where it's needed the most. eLINE pipettes cover the full volume range of 0.2 to 5000 µL.





eLINE - leader in performance and ergonomics

- Excellent accuracy and precision with the unique DC motor concept
- Fully electronic operations guarantee user-independent results
- Makes pipetting faster and easier
- Built-in error control for more reliable results
- Easiest tip ejection ever with the unique electronic tip ejection
- Ergonomic design that suits both left- and right-handed
- You need only one pipette instead of two – one eLINE covers the volume ranges of two mechanical pipettes
- Comprehensive range of liquid handling protocols with easy programming

Tips on pages 52-53

Filters on page 56

Stand options available on page 25

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Autoclaving instructions on page 84



NEW! See page 80 for details



WATCH VIDEO ON www.biohit.com/liquidhandling

eLINE Single-Channel 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	
73002X	1-channel	0.2-10 µl	0.05	10	0.90 %	0.40 %	-	-	A, L, M
				5	1.00 %	0.70 %			
				1	2.50 %	1.50 %			
				0.2	12.00 %	10.00 %			
73004X	1-channel	5-120 µl	0.50	120	0.40 %	0.15 %	721008	721018	C, D, V
				60	0.60 %	0.20 %			
				12	2.00 %	1.00 %			
				5	3.50 %	1.50 %			
73006X	1-channel	10-300 µl	1.00	300	0.40 %	0.15 %	721007	721017	D, Q [§]
				150	0.60 %	0.20 %			
				30	1.50 %	0.80 %			
				10	3.50 %	2.00 %			
73008X	1-channel	50-1000 µl	5.00	1000	0.40 %	0.15 %	721006	721016	E, G, S
				500	0.60 %	0.20 %			
				100	1.50 %	0.50 %			
				50	2.00 %	1.00 %			
73010X	1-channel	100-5000 µl*	10.0	5000	0.50 %	0.15 %	721006	721016	J
				2500	0.80 %	0.20 %			
				500	1.00 %	0.40 %			

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

X: 0 = Without AC-adaptor, 1 = With universal AC-adaptor (incl. Euro, US/Jpn, UK and China plugs)

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

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.

Both left- and right-handed operation

Clear LCD-display informs and instructs the user during pipetting

Easy-to-use keypad enables fast programming

Unique electronic one-touch tip ejection

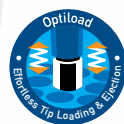
Volume range colour coding for easy pipette and tip selection

Dispensing head rotates to both directions without accidental disassembling for optimum pipetting convenience

Individual piston/tip cone assemblies allow easy repair and maintenance



Autoclavable dispensing head (excl. 1200 µl 8/12 models)



Unique Optiload tip loading mechanism

Replaceable Safe-Cone Filters help prevent contamination of the pipette and samples



Optiload tip loading and perfect tip sealing

- Available in multichannel eLINE pipettes
- Allows tip loading with an equal constant force to every channel
- Tips are perfectly sealed to every individual tip cone
- Is an advantage in multichannel models, where tip sealing is essential

- Tips on pages 52-53
- Filters on page 56
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eLINE 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	
73032X	8-channel	0.2-10 µl	0.05	10 5 1	0.90 % 1.50 % 4.00 %	0.50 % 0.80 % 3.00 %	-	-	A, L, M
73034X	8-channel	5-120 µl	0.50	120 60 12	0.50 % 0.70 % 2.00 %	0.20 % 0.30 % 1.50 %	721008	721018	C, D, V
73036X	8-channel	10-300 µl	1.00	300 150 30	0.50 % 0.70 % 2.00 %	0.20 % 0.30 % 1.00 %	721007	721017	D, Q ^x
73039X	8-channel	50-1200 µl	5.00	1200 600 120	0.50 % 1.00 % 2.50 %	0.20 % 0.30 % 1.00 %	721006	721016	H, T, Z
73042X	12-channel	0.2-10 µl	0.05	10 5 1	0.90 % 1.50 % 4.00 %	0.50 % 0.80 % 3.00 %	-	-	A, L, M
73044X	12-channel	5-120 µl	0.50	120 60 12	0.50 % 0.70 % 2.00 %	0.20 % 0.30 % 1.50 %	721008	721018	C, D, V
73046X	12-channel	10-300 µl	1.00	300 150 30	0.50 % 0.70 % 2.00 %	0.20 % 0.30 % 1.00 %	721007	721017	D, Q
73049X	12-channel	50-1200 µl	5.00	1200 600 120	0.50 % 1.00 % 2.50 %	0.20 % 0.30 % 1.00 %	721006	721016	H, T, Z

X: 0 = Without AC-adaptor, 1 = With universal AC-adaptor (incl. Euro, US/jpn, UK and China plugs)
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.





eLINE charging options

- 1-Place Charging Stand
- 4-Place Charging Carousel
- AC-adaptor

The eLINE electronic pipettes can be charged with a 1-place charging stand, a 4-place charging carousel or a direct charging AC-adaptor. The variety of charging options has been designed for optimal utility and all charging options are delivered with the AC-adaptor of choice. It is possible to continue pipetting while the eLINE is charged through the AC-adaptor. The compact design of the 4-pipette charging carousel is ideal for saving bench space in the laboratory and allows the pipette to be rested between dispensing routines with a tip attached. The 4-place rotating head provides easy access to the desired unit.

eLINE operation modes

- Pipetting
- Reverse Pipetting
- Pipetting with Mixing
- Pipetting with Cycle Counter
- Manual Pipetting^{*1}
- Multiple Dispensing
- Diluting
- Diluting with Mixing
- Sequential Dispensing
- Multi-Aspirating
- Automatic Multiple Dispensing
- 6 memory places for your favourite pipetting protocols
- 9 speeds for aspiration and dispensing

For pipetting modes, please go to page 82.

^{*1} Note: Not available in eLINE multichannel models.

Direct charging feature allows pipetting while charging

Cat. No.	Item
730981	eLINE Charging Stand for one pipette, with Universal AC-adaptor*
730991	eLINE Charging Carousel for 4 pipettes, with Universal AC-adaptor*
725620	Linear Stand
731001	eLINE Replacement Battery

* incl. Euro, US/Jpn, UK and China plugs

“eLINE is the perfect pipette taking care of both the work and the person using it”

Lisbeth Lemmetti, Development Analyst, Biomedicine
Blood Centre at Sahlgrenska University Hospital, Sweden

Unique one-touch electronic tip ejection



Tip ejection can be laborious and at worst a contributing factor to Repetitive Strain Injury (RSI). With the eLINE this is no longer the case, as the unique electronic tip ejection system allows tip removal at the light touch of a button.

The eLINE is the only pipette in the market that offers electronic tip ejection. This feature has been designed for both left- and right-handed operation.

Patented Biohit DC-motor concept

The patented and unique Biohit concept includes the DC-motor, solenoid brake and error control.

Improved accuracy and precision

The solenoid brake of the eLINE enables over 10 times more precise positioning of the piston compared to a stepper motor driven system. This is a major advantage in multi-dispensing mode where liquid column has to be cut sharply to have even doses. This means superior accuracy and precision.

Built-in error control for more reliable results

Even the best pipette may occasionally make errors. Important is to be able to notice them. Biohit electronic pipettes feature a built-in error control. The pipette controls and monitors the piston movement in real time. If an error occurs while pipetting, the pipette notifies the user, thus allowing for more reliable results.



UNIQUELY
BIOHIT!

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