

eLINE® electronic pipettes

Proven performance and ergonomics

The electronic Biohit eLINE pipette family has been providing high precision and comfort for years. This award-winning (ProFinnish Design 2001) device is the first electronic pipette designed to take care of its user. The comprehensive range of pipetting modes in eLINE reduces the need for several work stages and enables liquid dispensing twice as fast as a mechanical pipette. Its unique DC-motor concept, with build-in error control, improves pipetting precision and allows more reliable results. eLINE is available as single-channel models, covering a volume range of 0.1 to 5000 µl and as multichannel models from 0.2 to 1200 µl.

- Proven accuracy and precision with DC-motor concept
- Fully electronic operations guarantee user-independent results and prevent RSI
- Effortless, electronic tip ejection
- Twice as fast as a mechanical pipette
- One eLINE covers the volume range of two mechanical pipettes
 - fewer pipettes needed
- Comprehensive range of pipetting modes (8)
- Several charging options
- Liquid dispensing from the air, without touching the vessel wall, with eLINE 0.1 – 5 µl model

Features and benefits

Warning when low battery

Direct charging option
- Immediate pipetting possibility while charging

Clear LCD-display with all the information you need

Easy-to-use keypad enables fast programming

Electronic start button for all pipetting operations

9 speeds for both aspiration and dispensing

Volume range colour coding for easy pipette and tip selection

Easy cleaning and maintenance
- Ejector collar, tip cone and piston can be unscrewed for easy cleaning, autoclaving and maintenance

Memory spaces for 6 saved programs

Unique electronic tip ejection

Attractive ergonomic design

Both left and right-handed operation

Autoclavable lower parts
(excl. 1200 µl multichannel pipettes)

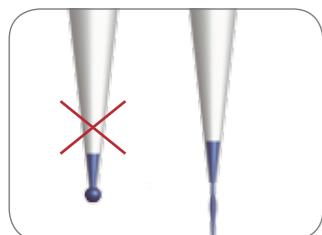
Optiload for perfect tip sealing
- Allows tip loading with an equal constant force onto every channel
- Enables perfect tip sealing onto every individual tip cone

Safe-Cone Filters
- In all models > 10 µl to prevent contamination

Autoclavable lower parts
121°C

Optiload
Perfect Tip Loading & Ejection





The increased liquid dispensing speed of the eLINE 0.1-5µl pipette with Super Pipetting feature enables liquid dispensing from the air, emptying the tip completely, without hanging last drop.



Contamination free pipetting with Super Pipetting feature

It is now possible to dispense the very smallest volumes from the air – without needing to touch the receiving vessel wall or for dispensing under the liquid surface. The increased liquid dispensing force of the SP feature empties the tip completely, with no drops left hanging on to the tip. Using the SP feature, the user can also prevent droplets from clinging onto the electrically charged outer surface of a microplate well, since there is no need to touch the well wall. In both cases, the accuracy of the dispensed volume increases.

- Reduced risk of contamination
- Improved accuracy for small volumes
- Available in eLINE 0.1-5 µl model

Proven accuracy and precision

A unique DC-motor concept for 10 times more precise dispensing compared to a stepper-motor-driven system.

- Piston movement is halted using an extremely rapid solenoid brake
 - Major advantage in multi-dispensing where the liquid column has to be cut sharply to achieve even doses
- Error control with optical sensor
 - Controls and monitors the piston movement in real time
 - Notifies the user if the piston is in an incorrect position

Pipetting modes

Main mode	Additional functions		
	Mixing	Counter	Auto Dispensing (Timed)
Pipetting	✓	✓	✓
Reverse Pipetting	✓		
Manual Pipetting ¹	✓		
Multi Dispensing	✓		✓
Diluting	✓	✓	
Sequential Dispensing ²	✓		
Multi-Aspirating	✓		
Super Pipetting	✓	Only available in eLINE 0.1-5 µl	

1) Not available in eLINE multichannel pipettes

2) Not available in eLINE 0.1-5 µl

eLINE® - Ordering details

Cat. No.	Channels	Volume Range (µl)	Increment (µl)	Test Volume (µl)	Inacc. (%)	Impr. (%)	Safe-Cone Filters		Optifit Tips (µl)	SafetySpace™ Filter Tips (µl)
							Standard	Plus		
73001x	1	● 0.1-5	0.05	5	1.20	0.70	-	-	10	10
				2.5	1.70	1.20				
				0.5	9.50	8.00				
73002x	1	● 0.2-10	0.05	10	0.90	0.40	-	-	10	10
				5	1.00	0.70				
				1	3.50	2.30				
73004x	1	● 5-120	0.50	120	0.40	0.15	721008	721018	200	120
				60	0.60	0.20				
				12	2.00	1.00				
73006x	1	● 10-300	1.00	300	0.40	0.15	721007	721017	350	300
				150	0.60	0.20				
				30	1.50	0.80				
73008x	1	● 50-1000	5.00	1000	0.40	0.15	721006	721016	1000	1000
				500	0.60	0.20				
				100	1.50	0.50				
73010x*	1	● 100-5000	10.0	5000	0.50	0.15	721006	721016	5000	-
				2500	0.80	0.20				
				500	1.00	0.40				
73032x	8	● 0.2-10	0.05	10	0.90	0.50	-	-	10	10
				5	1.50	0.80				
				1	4.00	3.00				
73034x	8	● 5-120	0.50	120	0.80	0.20	721008	721018	200	120
				60	0.70	0.30				
				12	3.00	1.50				
73036x	8	● 10-300	1.00	300	0.50	0.20	721007	721017	350	300
				150	0.70	0.30				
				30	2.00	1.00				
73039x	8	● 50-1200	5.00	1200	0.50	0.20	721006	721016	1200	1200
				600	1.00	0.30				
				120	2.50	1.00				
73042x	12	● 0.2-10	0.05	10	0.90	0.50	-	-	10	10
				5	1.50	0.80				
				1	4.00	3.00				
73044x	12	● 5-120	0.50	120	0.80	0.20	721008	721018	200	300
				60	0.70	0.30				
				12	3.00	1.50				
73046x	12	● 10-300	1.00	300	0.50	0.20	721007	721017	350	300
				150	0.70	0.30				
				30	2.00	1.00				
73049x	12	● 50-1200	5.00	1200	0.50	0.20	721006	721016	1200	1200
				600	1.00	0.30				
				120	2.50	1.00				

x = 0 without AC-adaptor, x = 1 with AC-adaptor (EU, UK, US/JPN and CHN plugs)

* NOTE: Min. volume in P-mode is 500 µl. 100 µl is possible in d-mode

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. It is possible to continue pipetting while the eLINE is being charged through the AC-adaptor. The compact design of the 4-pipette charging carousel is ideal for saving bench space in a laboratory. The 4-place rotating head provides easy access to the desired unit.

Pipette stands and accessories – Ordering details

Cat. No.	Item
730981	Charging Stand for one pipette
730991	Charging Carousel for 4 pipettes
725620	Linear Stand
731009	eLINE replacement battery

Charging stands include universal AC-adaptor
(EU, UK, US|JPN and CHN plugs)



Linear Stand



Charging Stand



Charging Carousel

eLINE® PCR Starter Kit

eLINE PCR Starter Kit offers an easy start in PCR applications. Biohit eLINE electronic pipettes and dispensers speed up your work and guarantee user-independent results and excellent accuracy, even in small volumes. Sterile Biohit SafetySpace Filter Tips and Dispenser Tips ensure contamination-free pipetting.

eLINE® PCR Starter Kit 1 – Cat. No. 730820

eLINE 0.2-10 µl

eLINE 10-300 µl

eLINE Lite Dispenser

SafetySpace 10 µl Filter Tip rack, sterile

SafetySpace 300 µl Filter Tip rack, sterile

Dispenser Tip 0.5 ml (10 pcs), sterile

Dispenser Tip 1 ml (10 pcs), sterile

Charging Carousel for 4 pipettes

Cooling Rack for 12 micro tubes

Cryo pen

Literature

