

# eLINE® Electronic Pipettes

Proven Performance and User Comfort

The electronic Sartorius eLINE pipettes in the Biohit *family* have 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

Unique electronic tip ejection

Direct charging option – Immediate pipetting possibility while charging

Both left and right-handed operation

9 speeds for both aspiration and dispensing

Clear LCD-display with all the information you need

Memory spaces for 6 saved programs

Warning when battery low

Easy-to-use keypad enables fast programming

Electronic start button for all pipetting operations

Volume range colour coding for easy pipette and tip selection

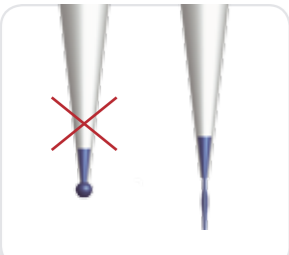
Attractive ergonomic design

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

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



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 (SP) 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

Pipetting Modes

Main Mode	Additional Functions		
	Mixing	Counter	Auto Dispensing (Timed)
Pipetting	✓	✓	
Reverse Pipetting	✓		
Manual Pipetting <sup>1</sup>	✓		
Multi Dispensing	✓		✓
Diluting	✓	✓	
Sequential Dispensing <sup>2</sup>	✓		
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

**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

Ordering Information

Cat. No.	Channels	Volume Range (µl)	Increment (µl)	Test Volume (µl)	Inacc. (%)	Impr. (%)	Safe-Cone Standard	Filters Plus	Optifit Tips (µl)	SafetySpace™ Filter Tips (µl)
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	200 350	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	200 350	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	200 350	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



Charging Stand



Charging Carousel



Linear Stand

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.

Ordering Information

Pipette Stands and Accessories

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

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

