

# eLINE® Electronic Pipette



turning science into solutions

# eLINE<sup>®</sup> 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

**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**

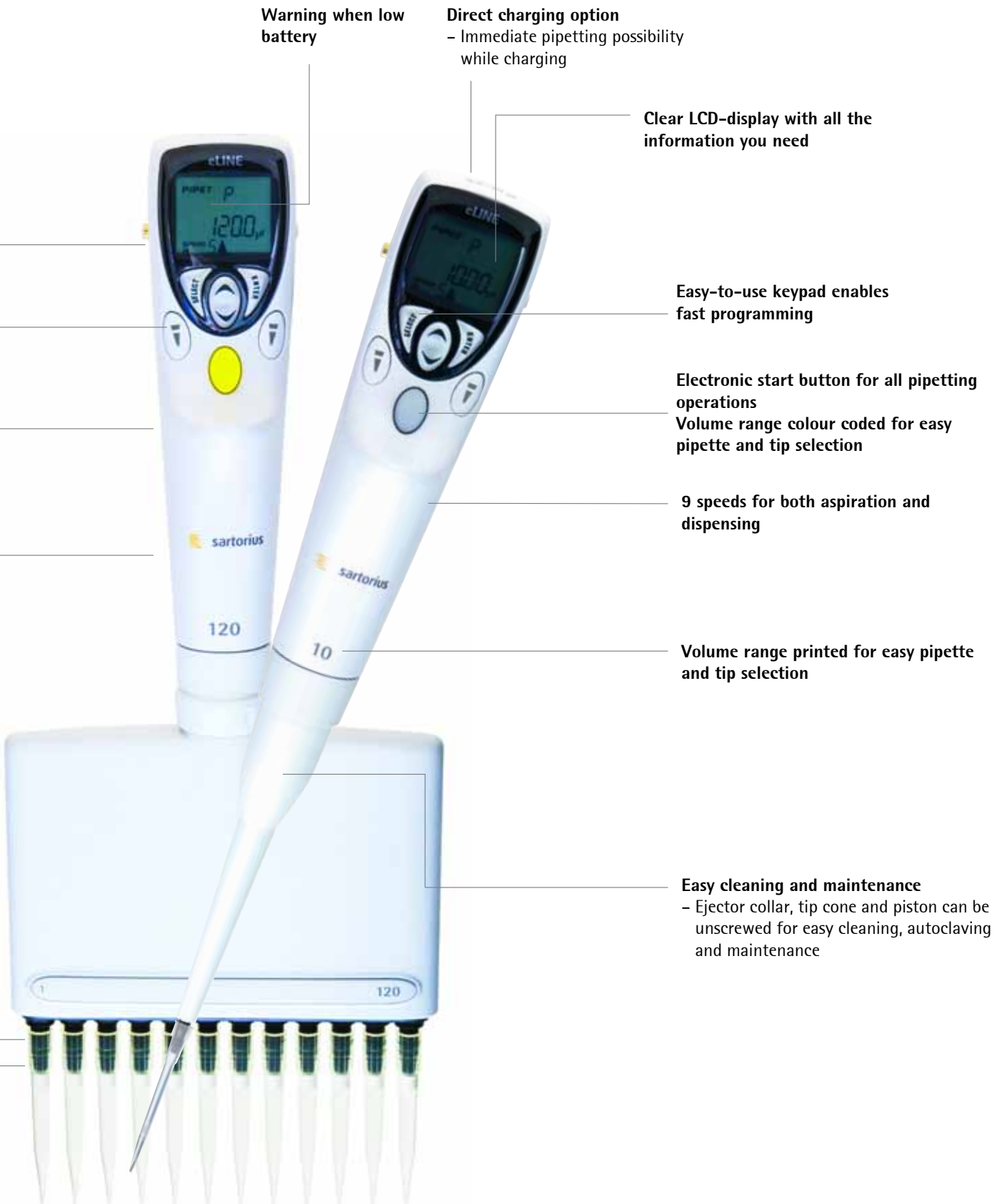
- Allows tip loading with an equal constant force onto every channel
- Enables perfect tip sealing onto every individual tip cone

**Safe-Cone Filters**

- In all models > 10 µl to prevent contamination



## Features and benefits



**Warning when low battery**

**Direct charging option**  
- Immediate pipetting possibility while charging

**Clear LCD-display with all the information you need**

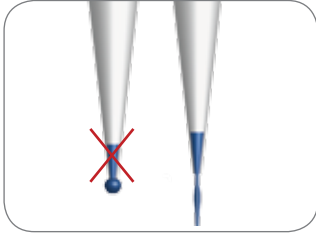
**Easy-to-use keypad enables fast programming**

**Electronic start button for all pipetting operations**  
**Volume range colour coded for easy pipette and tip selection**

**9 speeds for both aspiration and dispensing**

**Volume range printed 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



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 <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

# Pipette selection guide

Are you looking for a tool for sterile work, or for a pipette you could easily calibrate yourself? Are you looking for a particularly comfortable solution, something really light and ergonomic? By consulting the tables below, you can choose the tool that best suits you and your work.

## Electronic or mechanical pipette

Features	Electronic pipettes	Mechanical pipettes
Highest ergonomics	•	
Fastest pipetting	•	
User-independent results	•	
Multiple pipetting modes	•	
Fully autoclavable		•
Calibration by user	• <sup>1</sup>	•

## Electronic pipettes

Features	Picus	eLINE
Most ergonomic	•	
Weight <sup>2</sup>	100 g	170 g
Multiple pipetting modes <sup>3</sup>	8+5	7+3
Microwell plate tracker	•	
Electronic tip ejection	•	•
Calibration by user	•	•
Information on service & calibration intervals	•	
Hot key for stored programs	•	
Memory places	10	6
Safe-Cone Filters	•	•
Autoclavable lower parts	•	•
Optiload in multichannels	•	•
Colour coding on pipette	•	•
Warranty for 2 years	•	•

## Mechanical pipettes

Features	mLINE	Proline Plus	Proline
Most ergonomic	•		
Pipetting forces <sup>4</sup>	12 N	15 N	20 N
Fully autoclavable	•	•	
Optiload tip loading mechanism	all models	multichannels only	
Weight <sup>4</sup>	77 g	82 g	84 g
Safe-Cone Filters	•	•	•
Filter ejector	•		
Volume locking	•	click stops	click stops
Thermal insulation	•	•	
Colour coding on pipette	•	•	
Colour coding caps	•		•
ID tags	•		
Warranty for 3 years	•	•	•

1) Picus only

2) 300 µl 1-channel models

3) Include mode additions

4) 1000 µl 1-channel models

## 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)



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		
730010 730011	1	● 0.1-5	0.05	5 2.5 0.5	1.20 1.70 9.50	0.70 1.20 8.00	-	-	10	10
730020 730021	1	● 0.2-10	0.05	10 5 1	0.90 1.00 3.50	0.40 0.70 2.30	-	-	10	10
730040 730041	1	● 5-120	0.50	120 60 12	0.40 0.60 2.00	0.15 0.20 1.00	721008	721018	200 350	120
730060 730061	1	● 10-300	1.00	300 150 30	0.40 0.60 1.50	0.15 0.20 0.80	721007	721017	350	300
730080 730081	1	● 50-1000	5.00	1000 500 100	0.40 0.60 1.50	0.15 0.20 0.50	721006	721016	1000	1000
730100* 730101*	1	● 100-5000	10.0	5000 2500 500	0.50 0.80 1.00	0.15 0.20 0.40	721006	721016	5000	-
730320 730321	8	● 0.2-10	0.05	10 5 1	0.90 1.50 4.00	0.50 0.80 3.00	-	-	10	10
730340 730341	8	● 5-120	0.50	120 60 12	0.80 0.70 3.00	0.20 0.30 1.50	721008	721018	200 350	120
730360 730361	8	● 10-300	1.00	300 150 30	0.50 0.70 2.00	0.20 0.30 1.00	721007	721017	350	300
730390 730391	8	● 50-1200	5.00	1200 600 120	0.50 1.00 2.50	0.20 0.30 1.00	721006	721016	1200	1200
730420 730421	12	● 0.2-10	0.05	10 5 1	0.90 1.50 4.00	0.50 0.80 3.00	-	-	10	10
730440 730441	12	● 5-120	0.50	120 60 12	0.80 0.70 3.00	0.20 0.30 1.50	721008	721018	200 350	300
730460 730461	12	● 10-300	1.00	300 150 30	0.50 0.70 2.00	0.20 0.30 1.00	721007	721017	350	300
730490 730491	12	● 50-1200	5.00	1200 600 120	0.50 1.00 2.50	0.20 0.30 1.00	721006	721016	1200	1200

x: 0=without AC-adaptor, 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

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