

eLINE® Electronic Pipette



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

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

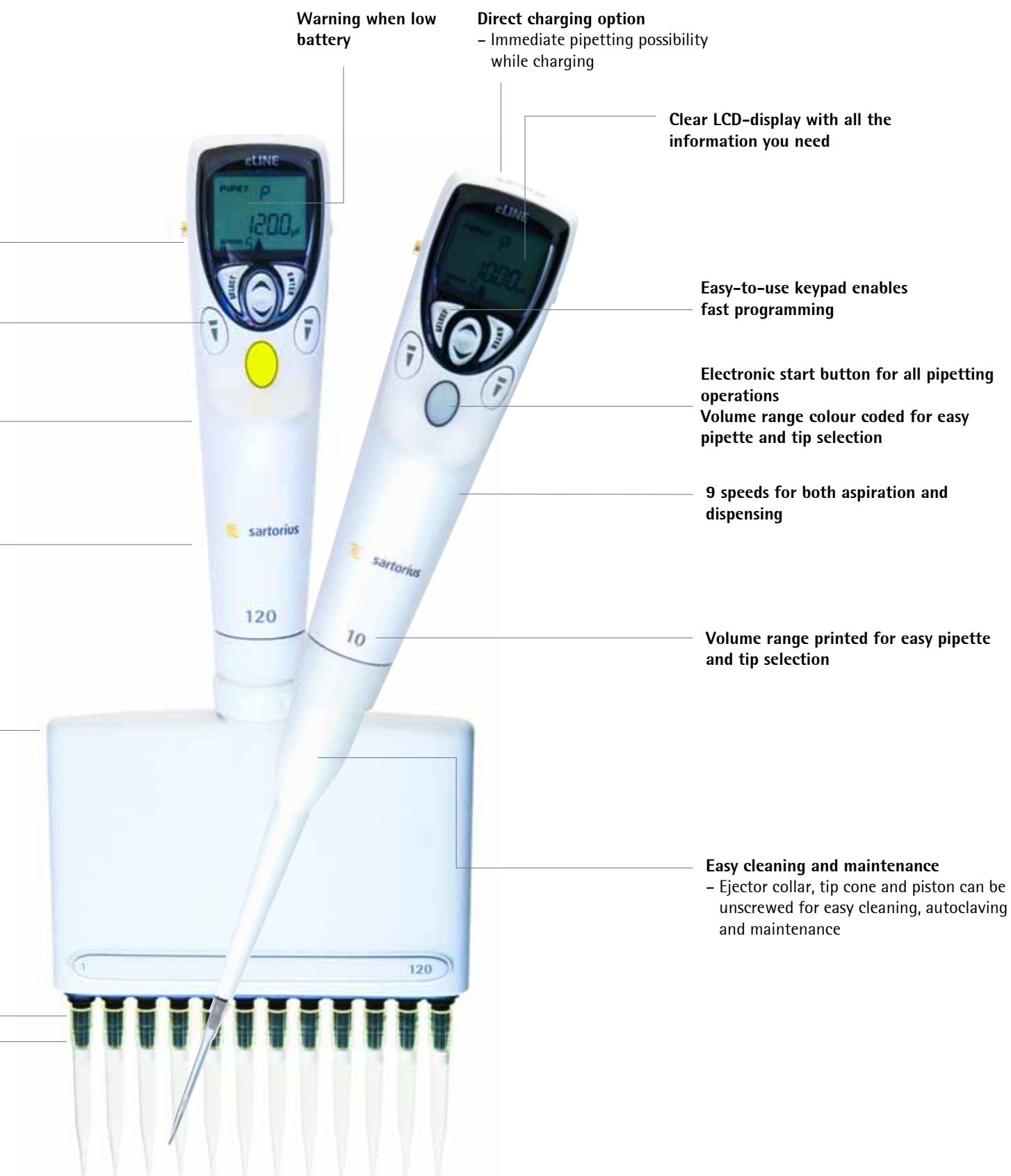
- Allows tip loading with an equal constant force onto every channel
- Enables perfect tip sealing onto every individual tip cone

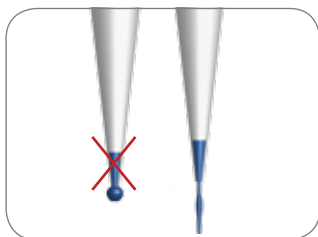
Safe-Cone Filters

- In all models > 10 µl to prevent contamination



Features and benefits





The increased liquid dispensing speed of the eLINE 0.1–5 µl 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

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	• ¹	•

Electronic pipettes

Features	Picus	eLINE
Most ergonomic	•	
Weight ²	100 g	170 g
Multiple pipetting modes ³	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 ⁴	12 N	15 N	20 N
Fully autoclavable	•	•	
Optiload tip loading mechanism	all models	multichannels only	
Weight ⁴	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.	FS Cat. No.	Item
730981	14-559-392	Charging Stand for one pipette
730991	14-559-393	Charging Carousel for 4 pipettes
725620	14-559-420	Linear Stand
731009	14-559-394	eLINE replacement battery

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



Linear Stand



Charging Stand



Charging Carousel

eLINE® - Ordering details

Cat. No.	Fisher Scientific 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	14-559-364	1	● 0.1-5	0.05	5	1.20	0.70	-	-	10	10
730011	14-559-365				2.5	1.70	1.20				
					0.5	9.50	8.00				
730020	14-559-366	1	● 0.2-10	0.05	10	0.90	0.40	-	-	10	10
730021	14-559-367				5	1.00	0.70				
					1	3.50	2.30				
730040	14-559-368	1	● 5-120	0.50	120	0.40	0.15	721008	721018	200	120
730041	14-559-369				60	0.60	0.20			350	
					12	2.00	1.00				
730060	14-559-370	1	● 10-300	1.00	300	0.40	0.15	721007	721017	350	300
730061	14-559-371				150	0.60	0.20				
					30	1.50	0.80				
730080	14-559-372	1	● 50-1000	5.00	1000	0.40	0.15	721006	721016	1000	1000
730081	14-559-373				500	0.60	0.20				
					100	1.50	0.50				
730100*	14-559-374	1	● 100-5000	10.0	5000	0.50	0.15	721006	721016	5000	-
730101*	14-559-375				2500	0.80	0.20				
					500	1.00	0.40				
730320	14-559-376	8	● 0.2-10	0.05	10	0.90	0.50	-	-	10	10
730321	14-559-377				5	1.50	0.80				
					1	4.00	3.00				
730340	14-559-378	8	● 5-120	0.50	120	0.80	0.20	721008	721018	200	120
730341	14-559-379				60	0.70	0.30			350	
					12	3.00	1.50				
730360	14-559-380	8	● 10-300	1.00	300	0.50	0.20	721007	721017	350	300
730361	14-559-381				150	0.70	0.30				
					30	2.00	1.00				
730390	14-559-382	8	● 50-1200	5.00	1200	0.50	0.20	721006	721016	1200	1200
730391	14-559-383				600	1.00	0.30				
					120	2.50	1.00				
730420	14-559-384	12	● 0.2-10	0.05	10	0.90	0.50	-	-	10	10
730421	14-559-385				5	1.50	0.80				
					1	4.00	3.00				
730440	14-559-386	12	● 5-120	0.50	120	0.80	0.20	721008	721018	200	300
730441	14-559-387				60	0.70	0.30			350	
					12	3.00	1.50				
730460	14-559-388	12	● 10-300	1.00	300	0.50	0.20	721007	721017	350	300
730461	14-559-389				150	0.70	0.30				
					30	2.00	1.00				
730490	14-559-390	12	● 50-1200	5.00	1200	0.50	0.20	721006	721016	1200	1200
730491	14-559-391				600	1.00	0.30				
					120	2.50	1.00				

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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