

Product Data Sheet

eLINE[®]

Electronic Single and Multichannel pipettes



Features:

- Outstanding ergonomics
 - Right and left handed operation
 - Fully electronic pipetting operations
 - 30 times lighter pipetting compared to mechanical pipetting
- Optoload tip loading mechanism in multichannels
 - Unique electronic tip ejection (patented)
 - Tip loading with equal constant force to every channel
 - Perfect tip sealing to every individual tip cone
- Unbeatable accuracy and precision due to Biohit DC-motor concept (patented)
 - Built-in error control controls and monitors the piston movement in real time
 - Enables over 10 times more precise piston positioning compared to a stepper motor driven pipettes
- Multifunctional – 11 operation modes
- Wide volume range in one unit – less pipettes needed
 - One eLINE covers volume range of two conventional electronics or mechanical pipettes
e.g. eLINE 10 – 300µl covers 10 – 100µl and 20 – 200µl mechanical pipettes and even more
- Speed adjustment for aspiration and dispensing from 1 to 9
- Several charging options
 - Direct charging (dispensing possible during charging)
 - Charging stand for 1 pipette
 - Charging carousel for 4 pipettes
- CE (IVD)
- Perfect pipette for all electronic liquid handling e.g.
 - Work requiring long pipetting series
 - PCR
 - ELISA



Target customers:

- Pharma accounts
- Research institutes
- Blood centers
- Industrial laboratories
- Laboratories with microplate applications

eLINE 0.1 – 5 µl with Super Pipetting feature

- Perfect feature for small volumes
 - Enables dispensing from air when dispensing against vessel wall or under liquid surface is not possible or recommendable
 - Avoid contaminations
 - Improved accuracy in small volumes
 - Less tip ejections – savings in tip costs
- Excellent for e.g. PCR and microplate applications
- Pipetting modes: **SP, P, rP, P+mix, Pcount, Pmand**
- Multidispensing modes: **d, dd, dd+mix, Ad, SA**

Performance specifications and Ordering Details

Cat.No	Channels	Volume range (µl)	Incr. (µl)	Test vol. (µl)	Inacc. (%)	Impr. (%)	Safe-cone filters	Tip
73001X	1	0.1 - 5	0.05	5 2,5 0.5	1.20 1.70 9.50	0.70 1.20 8.00	N/A	10
73002X	1	0.2 – 10	0.05	10 5 1 0.2	0.90 1.00 2.50 12.00	0.40 0.70 1.50 10.00	N/A	10
73004X	1	5 – 120	0.50	120 60 12 5	0.40 0.60 2.00 3.50	0.15 0.20 1.00 1.50	721008 std 721018 plus	300 350
73006X	1	10 – 300	1.00	300 150 30 10	0.40 0.60 1.50 3.50	0.15 0.20 0.80 2.00	721007 std 721017 plus	350
73008X	1	50 – 1000	5.00	1000 500 100 50	0.40 0.60 1.50 2.00	0.15 0.20 0.50 1.00	721006 std 721016 plus	1000
73010X	1	100 – 5000	10.0	5000 2500 500	0.50 0.80 1.00	0.15 0.20 0.40	721006 std 721016 plus	5000
73032X	8	0.2 – 10	0.05	10 5 1	0.90 1.50 4.00	0.50 0.80 3.00	N/A	10
73034X	8	5 – 120	0.50	120 60 12	0.50 0.70 2.00	0.20 0.30 1.50	721008 std 721018 plus	300 350
73036X	8	10 – 300	1.00	300 150 30	0.50 0.70 2.00	0.20 0.30 1.00	721007 std 721017 plus	350
73039X	8	50 – 1200	5.00	1200 600 120	0.50 1.00 2.50	0.20 0.30 1.00	721006 std 721016 plus	1200



73042X	12	0.2 – 10	0.05	10 5 1	0.90 1.50 4.00	0.50 0.80 3.00	N/A	10
73044X	12	5 – 120	0.50	120 60 12	0.50 0.70 2.00	0.20 0.30 1.50	721008 std 721018 plus	300 350
73046X	12	10 – 300	1.00	300 150 30	0.50 0.70 2.00	0.20 0.30 1.00	721007 std 721017 plus	350
73049X	12	50 - 1200	5.00	1200 600 120	0.50 1.00 2.50	0.20 0.30 1.00	721006 std 721016 plus	1200

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

Technical Specifications

Weight SC, eLINE 1000µl MCP, eLINE 8-ch 300µl	170 g 223 g
Length SC, eLINE 1000µl MCP, eLINE 8-ch 300µl	245 mm 240 mm
Pipetting forces Single channel models Multichannel models	1.5N 1.5N
Tip ejecting forces Single channel models Multichannel models	1.5N 1.5N
Volume range	Single channels: 0.1µl – 5000µl Multichannels: 0.2µl – 1200µl
Battery	<ul style="list-style-type: none"> • ½ AA NiMH battery pack with protection circuit • 4.8 V, 500 mAH • Charging time min 12 hours for empty batteries • Quick charging (4 hours) • More than 1000 pipetting cycles when fully charged
AC-adaptor for Charging stand and direct charging	<ul style="list-style-type: none"> • Input voltage and main plug according to local requirements • Output voltage 7,5 VDC, 360 mA
AC-adaptor for Charging carousel	<ul style="list-style-type: none"> • Input voltage and main plug according to local requirements • Output voltage 9 VDC, 1200 mA
Decontamination of Outer surface of pipette	<ul style="list-style-type: none"> • Biohit Biocontrol decontamination fluid • 70 % ethanol • 60 % isopropanol • mild detergent
Autoclavable	Lower parts (excl. 1200µl 8/12-ch models) Please note! eLINE 0,1 – 5 µl lower parts (tip cone, tip cone holder and tip ejector collar) are autoclavable. The piston can be disassembled only by trained service for autoclaving.
Air displacement	Yes
Positive displacement	No



Pipetting modes	<ul style="list-style-type: none"> • Pipetting (P) • Reverse pipetting (rP) • Super Pipetting (SP)* • Pipetting with mixing (P mix) • Pipetting with cycle counter (P count) • Manual pipetting with cycle counter (P man)** • Multiple Dispensing (d) • Sequential Dispensing (Sd)*** • Automatic multiple Dispensing (Ad) • Diluting (dd) • Diluting with mixing (dd mix) • Multi-Aspirating (SA) <p style="text-align: right;">*Only in eLINE 0,1 – 5µl **Pman only in eLINE single channel pipettes ***Not in eLINE 0,1 – 5µl</p>
Program storage	6 memory locations for favorite pipetting protocols
Super Pipetting	Yes, in eLINE 0,1 – 5µl single channel
Speeds	1 - 9 for aspirating and dispensing
User calibratable	Single-point calibration
Optiload tip loading	Yes, in multichannel models
Charging indicator	Yes, on display
Low battery warning	Yes
Error control	Yes, optical feedback system
Electronic tip ejection	Yes
Stand options	<ul style="list-style-type: none"> • 730981 eLINE charging stand for one pipette, with AC adaptor • 730991 eLINE charging carousel for 4 pipettes, with AC adaptor • 725620 Linear stand
CE/IVD-marked	Yes

Packaging content

eLINE	<ul style="list-style-type: none"> • eLINE pipette • Instruction manual • Quick Programming Guide • Biohit Minicatalogue • Biohit QC-certificate • Biohit Tip leaflet • Biohit Tip rack (96 tips, excl. 5ml model) • Biohit Universal adaptor (optional) • Safe cone filters (std) <ul style="list-style-type: none"> • 5 pcs in single channel models • 24 pcs in multichannel models • Filter forceps • Grease in single channel units
eLINE PCR Starter Kit	<ul style="list-style-type: none"> • eLINE pipettes (0.2 – 10µl and 10 – 300µl) • eLINE Lite dispenser • Charging carousel for 4 pipettes • SafetySpace filter tip single tray (sterile) <ul style="list-style-type: none"> ○ 10 µl ○ 300 µl • Dispenser tips (sterile) <ul style="list-style-type: none"> ○ 0.5 ml (10 pcs) ○ 1 ml (10 pcs) • Cooling rack for the 1.5 and 2 ml micro tubes • Cyro pen (black) • Literature (instruction manuals, QC-certificates, quick programming guides, product catalogue, product leaflets) • Accessory bag (safe cone filters, grease and forceps)



More information on LH Product Master Data File