LABNET EXCEL™
ELECTRONIC PIPETTES

Labnet
Labnet International, Inc.

- ❑ EXCEPTIONAL ACCURACY AND PRECISION
- ❑ SIMPLE, PRECISE VOLUME SETTING
- ❑ FULLY MOTORIZED PISTON DRIVE
- ❑ MULTIFUNCTIONAL WITH SIX OPERATING MODES
- ❑ VIRTUALLY ELIMINATES PIPETTING FORCE
- ❑ USER FRIENDLY OPERATOR INTERFACE
- ❑ RECHARGEABLE LITHIUM-ION BATTERY

Labnet Excel™ Electronic Pipettes

Labnet's Excel Electronic Pipettes are multifunctional units with operational modes for standard and reverse pipetting as well as multiple and sequential pipetting, mixing of samples and serial dilutions. All functions are easily programmed with one hand on the well positioned display and keypad. A fully motorized piston drive and auto-calibration guarantee excellent accuracy and reproducibility. A removable, rechargeable Lithium-ion battery ensures many hours of performance between charges.

Motorized Piston Drive

Excel Electronic Pipettes are fully motorized, ensuring reproducibility and reducing pipetting forces. A micro-processor tightly controls operation of the high precision stepping motor to within 1/20th of a revolution. This ensures accurate, reproducible piston movement. Between pipetting steps, the zero position of the piston is verified - the calibration of the unit is checked each time an operation is performed. Activation of the piston requires minimal force, reducing operator fatigue.

Simple Operation

Programming the pipettor is accomplished with the four soft pads on the face of the instrument. The face slants away from the user for easy access to the keypad and viewing of the large LCD. User friendly software guides the operator through the programming. For convenience, as many as nine sets of operating parameters may be stored in memory for future recall. A graphical interface shows the status of the system and prompts the user for action.

Parameters such as aspirating and dispensing speed, audible signals and an ejection alarm are easily set. A blow-out step after dispensing may be added or removed.

Proper operation of the system is ensured by self diagnostics in the software. Accuracy of pipetting volume, battery charge status and the auto-calibration function are constantly monitored.

Ergonomic Design

The body of the *Labnet Excel Electronic Pipette* has been designed to fit comfortably in the right or left hand. Along with being lightweight, the unit is also well balanced. The plunger button, located on the back side of the instrument, requires just a small movement of the index finger to activate, reducing the risk of Repetitive Strain Injuries (RSI). The tip ejector slides easily with slight pressure from the thumb.

Multifunctional

Multiple operating modes allow the *Labnet Excel Electronic Pipettes* to perform a variety of functions in addition to standard pipetting. Using the keypad and graphical interface, each of the modes is easily accessed and parameters entered. In the "AUTO" mode, the volumes to be aspirated and dispensed for standard and reverse pipetting are selected. "MD" mode is selected for multiple dispensing operations. Samples can be aspirated and dispensed repeatedly in the "MIX" mode. "AUTO/MIX" makes serial dilutions quick and easy. Sequential dispensing ("SD") allows for a large volume to be drawn up and smaller aliquots of different volumes to be dispensed. With sequential aspiration ("SA") a number of samples can be drawn up with air spaces in between to prevent mixing and then dispensed all at once.

Single or Multichannel

Labnet Excel Electronic Pipettes are available in four overlapping volume ranges from 0.5 µl to 1200 µl. Each range is provided in single, eight and twelve channel versions. The single channel models have a reduced diameter shaft for reaching into narrow tubes. The manifolds of the multichannel models rotate for comfortable pipetting in any direction.

For sterility, the lower portion of the pipettes is easily removed for autoclaving. Durable seals in both the single and multichannel pipettors provide leakproof performance. Tip cones are made from PVDF for added durability and chemical resistance and the tip ejectors are adjustable to accommodate a variety of tip types.

Rechargeable Power

A small, rechargeable, Lithium-ion battery powers the Labnet Excel Electronic Pipettes. A graphic on the display indicates the charge status of the battery. When recharging is required, the unit is simply connected to the supplied charging adapter and plugged into an electrical outlet. A complete charge is achieved in 8 hours. To ensure a fresh battery is always available, a stand-alone charger and extra batteries are available.

Three position stand

Charger set

Specifications

Volume Range	Channels	Increments	Accuracy (%)	Precision (%)
0.5 - 10 µl	1	0.1 µl	±4.0 to ±1.0	≤2.5 to ≤0.4
2 - 20 µl	1	0.1 µl	±4.0 to ±1.0	≤2.5 to ≤0.4
10 - 200 µl	1	1.0 µl	±2.5 to ±0.6	≤1.0 to ≤0.15
100 - 1200 µl	1	1.0 µl	±2.5 to ±0.5	≤0.6 to ≤0.15
0.5 - 10 µl	8	0.1 µl	±4.0 to ±1.5	≤2.5 to ≤0.5
2 - 20 µl	8	0.1 µl	±4.0 to ±1.0	≤2.5 to ≤0.5
10 - 200 µl	8	1.0 µl	±3.0 to ±0.6	≤1.0 to ≤0.15
100 - 1200 µl	8	1.0 µl	±3.0 to ±0.5	≤0.8 to ≤0.2
0.5 - 10 µl	12	0.1 µl	±4.0 to ±1.5	≤2.5 to ≤0.5
2 - 20 µl	12	0.1 µl	±4.0 to ±1.0	≤2.5 to ≤0.5
10 - 200 µl	12	1.0 µl	±3.0 to ±0.6	≤1.0 to ≤0.15
100 - 1200 µl	12	1.0 µl	±3.0 to ±0.5	≤0.8 to ≤0.2

Ordering Information

Description	Cat. No.
Single channel	
Labnet Excel Electronic Pipette, 0.5 - 10 µl, single channel, with charger, 120V*	P3600L-10
Labnet Excel Electronic Pipette, 2 - 20 µl, single channel, with charger, 120V*	P3600L-20
Labnet Excel Electronic Pipette, 10 - 200 µl, single channel, with charger, 120V*	P3600L-200
Labnet Excel Electronic Pipette, 100 - 1200 µl, single channel, with charger, 120V*	P3600L-1200
8 Channel	
Labnet Excel Electronic Pipette, 0.5 - 10 µl, eight channel, with charger, 120V*	P3608L-10
Labnet Excel Electronic Pipette, 2 - 20 µl, eight channel, with charger, 120V*	P3608L-20
Labnet Excel Electronic Pipette, 10 - 200 µl, eight channel, with charger, 120V*	P3608L-200
Labnet Excel Electronic Pipette 100 - 1200 µl, eight channel, with charger, 120V*	P3608L-1200
12 Channel	
Labnet Excel Electronic Pipette, 0.5 - 10 µl, twelve channel, with charger, 120V*	P3612L-10
Labnet Excel Electronic Pipette, 2 - 20 µl, twelve channel, with charger, 120V*	P3612L-20
Labnet Excel Electronic Pipette, 10 - 200 µl, twelve channel, with charger, 120V*	P3612L-200
Labnet Excel Electronic Pipette, 100 - 1200 µl, twelve channel, with charger, 120V*	P3612L-1200
Accessories	
Extra Lithium-ion battery, for all voltages	P3600L-BAT
Optional charger set w/charger, charging adapter, extra battery, 120V	P3617L-CS
Optional charger set w/charger, charging adapter, extra battery, 230V, European plug	P3615L-CS
Optional charger set w/charger, charging adapter, extra battery, 230V, UK plug	P3616L-CS
Optional charger set w/charger, charging adapter, extra battery, 230V, Australian plug	P3618L-CS
Shelf clip for *Labnet Excel Electronic Pipette*, holds 1	P3628L
Acrylic stand for *Labnet Excel Electronic Pipette* holds 3	P3630L
Carousel stand for *Labnet Excel Electronic Pipette*, holds 6	P3935L

*All pipettes also available 230V. Add appropriate extension to catalog number to ensure proper plug type: -EU for Europe, -UK for the United Kingdom or -AU for Australia.

Your Distributor is:
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