Liquid Handling

DLAB

SMARTLAB
INNOVATORS


# Liquid Handling

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DLAB Liquid Handling range includes Micropipettes (Electronic Pipettes & Mechanical Pipettes), Pipette Filler, Pipette Controller and Stepper.

## List of DLAB models:

| Series | Image | Model | Application | Operation Method | Volume Range | Channel Option | Autoclavable | Page |
|---|---|---|---|---|---|---|---|---|
| Mechanical Pipette |  | HiPette | Aqueous solution | Manual | 0.1-10000μL | Single channel | YES | p.5 |
| |  | MicroPette | Aqueous solution | Manual | 0.1-10000μL | Single Channel Adj. & Fixed; | YES ( lower part ) | p.8 |
| | | | | | 0.5-300μL | 8 Channel Adj.; 12 Channel Adj.; | | |
| |  | MicroPette Plus | Aqueous solution | Manual | 0.1-5000μL | Single Channel Adj. & Fixed; | YES | p.7 |
| | | | | | 0.5-300μL | 8 Channel Adj.; 12 Channel Adj.; | | |
| |  | MiniPette | Aqueous solution | Manual | 25-200μL | Single Channel Fixed | NO | p.18 |
| Electronic Pipette |  | dPette+ | Aqueous solution | Electronic | 0.5-1000μL | Single Channel Adj. | YES ( lower part ) | p.11 |
| | | | | | 0.5-300μL | 8 Channel Adj. | | |
| |  | dPette | Aqueous solution | Electronic | 0.5-1000μL | Single Channel Adj. | YES ( lower part ) | p.13 |
| Pipette Filler |  | Levo Plus | Aqueous solution | Electronic | 0.1-100mL | Single channel | YES ( silicon adapter&nozzle ) | p.15 |
| |  | Levo Me | Aqueous solution | Electronic | 0.1-100mL | Single channel | YES ( silicon adapter&nozzle ) | p.17 |
| Pipette Controller |  | Levo | Aqueous solution | Manual | 0.1-100mL | Single channel | YES ( silicon adapter&nozzle ) | p.18 |
| Pipette Pump |  | Levo E | Aqueous solution | Manual | 2-25mL | Single channel | NO | p.18 |
| Stepper |  | StepMate | Aqueous solution, high viscosity or volatile solution | Manual | 0.5-50mL | Single channel | NO | p.19 |

# Liquid Handling

In addition to Pipettes, Liquid Handling series also include various Dispensers, Electronic Burette and Vacuum Aspiration System, which are used for the pipetting, dispensing, and collection of reagents with a wider range.

## List of DLAB models:






| Product Name | Bottle-Top Dispenser | New Bottle-Top Dispenser | Electronic Bottle-Top Dispenser | Electronic Burette | Vacuum Aspiration System | Economical Vacuum Aspirator |
|---|---|---|---|---|---|---|
| Model | DispensMate | DispensMate-Pro | dFlow | dTrite | SafeVac | EcoVac |
| Application | Reagent pipetting and liquid dispensing | | | Used in titration operations in chemical analysis, food industry, environmental analysis | Liquid collection and storage treatment, including cell culture medium, suspension, supernatant. | |
| Operation | Manual | Manual | Electronic | Electronic | Electronic | Electronic |
| Volume Range | 0.5-5mL<br>1.0-10mL<br>2.5-25mL<br>5.0-50mL | 0.5-5mL<br>1.0-10mL<br>2.5-25mL<br>5.0-50mL<br>10-100mL | 0.1-99.9mL | 0.01-99.99mL | Vacuum range: 0-600mbar<br>Bottle volume:4L | Vacuum range: 0-500mbar<br>Bottle volume:2L |
| Reagent Recovery Function | NO | Yes | Yes | Yes | NO | NO |
| Features | - | -Pro Glass piston (Part volume) | - | - | Sensitive level sensor, Self-closing connector | 1L bottle optional, Switch manual and continuous aspiration |
| Fully autoclavable | The part where the liquid flows | Whole | - | - | The part where the liquid flows | The part where the liquid flows |
| Accessories | Screw adapter | Screw adapter | Spiral dispensing pipe | Spiral dispensing pipe | Handle adapter | Handle adapter |
| Page | P.24 | P.23 | P.22 | P.21 | P.25 | P.27 |

# HiPette

## Fully Autoclavable Mechanical Pipette

The DLAB new generation fully autoclavable mechanical pipette has the best ergonomic design and ultralight weight. It has been designed keeping in mind the human form and human factors to offer smooth and effortless ergonomic pipetting experience. It is UV sterilisable and resistant to strong chemical corrosion. In addition, the volume lock helps protect from volume changing accidentally , and achieve reliable pipetting of smallest volume of liquids.

NEW

### Ultra-light ergonomic design

Light weight and light pipetting force with soft range adjustment and piston movement offers effortless &fatigue-less pipetting experience.

### Accurate pipetting

Special material and the updated components & technologies effectively reduces the operating force for accuracy, precision and reliability.

### Complete sterilization

The best in class pipette material used is fully autoclavable. It gives better protection against chemical & physical corrosion, and offers enhanced UV resistance for higher durability.

## Specifications

SINGLE-CHANNEL ADJUSTABLE VOLUME PIPETTES
( 9 MODELS, COVERING 0.1μL~10mL. )

| Volume Range | Increment | Test Volume | Accuracy Error | | Precision Error | |
|---|---|---|---|---|---|---|
| μL | μL | μL | μL | % | μL | % |
| 0.1-2.5 | 0.002 | 2.5 | ±0.04 | ±1.4 | ±0.02 | ±0.7 |
| | | 1.25 | ±0.03 | ±2.5 | ±0.02 | ±1.5 |
| | | 0.25 | ±0.03 | ±12.0 | ±0.02 | ±6.0 |
| 0.5-10 | 0.01 | 10 | ±0.10 | ±1.0 | ±0.04 | ±0.4 |
| | | 5 | ±0.08 | ±1.5 | ±0.04 | ±0.8 |
| | | 1 | ±0.03 | ±2.5 | ±0.02 | ±1.8 |
| 2-20 | 0.02 | 20 | ±0.20 | ±1.0 | ±0.06 | ±0.3 |
| | | 10 | ±0.12 | ±1.2 | ±0.06 | ±0.6 |
| | | 2 | ±0.10 | ±5.0 | ±0.03 | ±1.5 |
| 10-100 | 0.1 | 100 | ±0.80 | ±0.8 | ±0.20 | ±0.2 |
| | | 50 | ±0.50 | ±1.0 | ±0.15 | ±0.3 |
| | | 10 | ±0.30 | ±3.0 | ±0.10 | ±1.0 |
| 20-200 | 0.2 | 200 | ±1.20 | ±0.6 | ±0.40 | ±0.2 |
| | | 100 | ±1.00 | ±1.0 | ±0.30 | ±0.3 |
| | | 20 | ±0.50 | ±2.5 | ±0.14 | ±0.7 |
| 30-300 | 0.2 | 300 | ±1.80 | ±0.6 | ±0.60 | ±0.2 |
| | | 150 | ±1.50 | ±1.0 | ±0.45 | ±0.3 |
| | | 30 | ±0.75 | ±2.5 | ±0.21 | ±0.7 |
| 100-1000 | 1 | 1000 | ±6.00 | ±0.6 | ±2.00 | ±0.2 |
| | | 500 | ±5.00 | ±1 | ±1.00 | ±0.2 |
| | | 100 | ±3.00 | ±3 | ±0.60 | ±0.6 |
| 500-5000** | 5 | 5000 | ±30.00 | ±0.6 | ±10.00 | ±0.2 |
| | | 2500 | ±15.00 | ±0.6 | ±7.50 | ±0.3 |
| | | 500 | ±12.00 | ±1.2 | ±3.00 | ±0.3 |
| 1000-10000** | 10 | 10000 | ±60.00 | ±0.6 | ±20.00 | ±0.2 |
| | | 5000 | ±40.00 | ±0.8 | ±10.00 | ±0.2 |
| | | 1000 | ±30.00 | ±1.5 | ±6.00 | ±0.3 |

** **Coming soon**

User calibration should refer to the industrial standard ISO8655-2.

# MicroPette Plus

121°C
FULLY
Autoclavable

# MicroPette

121°C
Half
Autoclavable


## Features

- Available as Fixed Volume and Variable Volume formats
- Streamlined shape design
- Comprehensive volume range from 0.1μL to 10mL
- Easy calibration and maintenance
- 8 and 12 channel pipette options
- Dispensing head rotates for effortless pipetting convenience
- Individual piston and tip cone assembly
- Spring loaded tip cones for easy cleaning and maintenance
- Compound material-made tip cone secures high sealing performance

# Mechanical Pipette Volume Selection

## Specifications

This volume list is for MicroPette and MicroPette plus (Adjustable and Fixed volume)

| Single-channel Adjustable Volume Pipettes | | | | | | |
|---|---|---|---|---|---|---|
| Volume Range | Increment | Test Volume | Error limits in accordance with ISO8655-2 | | | |
| | | | Accuracy error | | Precision error | |
| µL | µL | µL | µL | % | µL | % |
| 0.1–2.5 | 0.05 | 2.5 | ±0.0625 | ±2.50 | ±0.05 | ±2.00 |
| | | 1.25 | ±0.0375 | ±3.00 | ±0.0375 | ±3.00 |
| | | 0.25 | ±0.03 | ±12.00 | ±0.015 | ±6.00 |
| 0.5–10 | 0.1 | 10 | ±0.1 | ±1.00 | ±0.08 | ±0.80 |
| | | 5 | ±0.075 | ±1.50 | ±0.075 | ±1.50 |
| | | 1 | ±0.025 | ±2.50 | ±0.015 | ±1.50 |
| 2–20 | 0.5 | 20 | ±0.18 | ±0.09 | ±0.08 | ±0.04 |
| | | 10 | ±0.12 | ±1.20 | ±0.1 | ±1.00 |
| | | 2 | ±0.06 | ±3.00 | ±0.04 | ±2.00 |
| 5–50 | 0.5 | 50 | ±0.3 | ±0.60 | ±0.15 | ±0.30 |
| | | 25 | ±0.225 | ±0.90 | ±0.15 | ±0.60 |
| | | 5 | ±0.1 | ±2.00 | ±0.1 | ±2.00 |
| 10–100 | 1 | 100 | ±0.8 | ±0.80 | ±0.15 | ±0.15 |
| | | 50 | ±0.5 | ±1.00 | ±0.2 | ±0.40 |
| | | 10 | ±0.3 | ±3.00 | ±0.15 | ±1.50 |
| 20–200 | 1 | 200 | ±1.2 | ±0.60 | ±0.3 | ±0.15 |
| | | 100 | ±0.8 | ±0.80 | ±0.3 | ±0.30 |
| | | 20 | ±0.6 | ±3.00 | ±0.2 | ±1.00 |
| 50–200 | 1 | 200 | ±1.2 | ±0.60 | ±0.3 | ±0.15 |
| | | 100 | ±0.8 | ±0.80 | ±0.3 | ±0.30 |
| | | 50 | ±0.5 | ±1.00 | ±0.2 | ±0.40 |
| 100–1000 | 5 | 1000 | ±6 | ±0.60 | ±2 | ±0.20 |
| | | 500 | ±3.5 | ±0.70 | ±1.25 | ±0.25 |
| | | 100 | ±2 | ±2.00 | ±0.7 | ±0.70 |
| 200–1000 | 5 | 1000 | ±6 | ±0.60 | ±2 | ±0.20 |
| | | 500 | ±3.5 | ±0.70 | ±1.25 | ±0.25 |
| | | 200 | ±1.8 | ±0.90 | ±0.6 | ±0.30 |
| 1000–5000 | 50 | 5000 | ±25 | ±0.50 | ±7.5 | ±0.15 |
| | | 2500 | ±15 | ±0.60 | ±7.5 | ±0.30 |
| | | 1000 | ±7 | ±0.70 | ±3 | ±0.30 |
| 2000–10000 | 100 | 10000 | ±60 | ±0.60 | ±20 | ±0.20 |
| | | 5000 | ±60 | ±1.20 | ±15 | ±0.30 |
| | | 2000 | ±60 | ±3.00 | ±12 | ±0.60 |

User calibration should refer to the industrial standard ISO8655-2.

## Fixed Volume Pipettes

| Volume Range | Increment | Test Volume | Accuracy error | | Precision error | |
|---|---|---|---|---|---|---|
| µL | – | µL | µL | % | µL | % |
| 5 | – | 5 | ± 0.065 | ± 1.3 | ± 0.06 | ± 1.2 |
| 10 | – | 10 | ± 0.08 | ± 0.8 | ± 0.08 | ± 0.8 |
| 20 | – | 20 | ± 0.12 | ± 0.6 | ± 0.1 | ± 0.5 |
| 25 | – | 25 | ± 0.125 | ± 0.5 | ± 0.075 | ± 0.3 |
| 50 | – | 50 | ± 0.25 | ± 0.5 | ± 0.15 | ± 0.3 |
| 100 | – | 100 | ± 0.5 | ± 0.5 | ± 0.3 | ± 0.3 |
| 200 | – | 200 | ± 0.8 | ± 0.4 | ± 0.4 | ± 0.2 |
| 250 | – | 250 | ± 1.0 | ± 0.4 | ± 0.5 | ± 0.2 |
| 500 | – | 500 | ± 1.5 | ± 0.3 | ± 1.0 | ± 0.2 |
| 1000 | – | 1000 | ± 3.0 | ± 0.3 | ± 2.0 | ± 0.2 |
| 2000 | – | 2000 | ± 6.0 | ± 0.3 | ± 3.0 | ± 0.15 |
| 5000 | – | 5000 | ± 15 | ± 0.3 | ± 7.5 | ± 0.15 |

## 8-channel Adjustable Volume Pipettes

| Volume Range | Increment | Test Volume | Accuracy error | | Precision error | |
|---|---|---|---|---|---|---|
| µL | µL | µL | µL | % | µL | % |
| 0.5–10 | 0.1 | 10 | ± 0.15 | ± 1.50 | ± 0.15 | ± 1.50 |
| | | 5 | ± 0.125 | ± 2.50 | ± 0.125 | ± 2.50 |
| | | 1 | ± 0.04 | ± 4.00 | ± 0.04 | ± 4.00 |
| 5–50 | 0.5 | 50 | ± 0.5 | ± 1.00 | ± 0.25 | ± 0.50 |
| | | 25 | ± 0.375 | ± 1.50 | ± 0.25 | ± 1.00 |
| | | 5 | ± 0.15 | ± 3.00 | ± 0.1 | ± 2.00 |
| 50–300 | 5 | 300 | ± 2.1 | ± 0.70 | ± 0.75 | ± 0.25 |
| | | 150 | ± 1.5 | ± 1.00 | ± 0.75 | ± 0.50 |
| | | 50 | ± 0.75 | ± 1.50 | ± 0.4 | ± 0.80 |

## 12-channel Adjustable Volume Pipettes

| Volume Range | Increment | Test Volume | Accuracy error | | Precision error | |
|---|---|---|---|---|---|---|
| µL | µL | µL | µL | % | µL | % |
| 0.5–10 | 0.1 | 10 | ± 0.15 | ± 1.50 | ± 0.15 | ± 1.50 |
| | | 5 | ± 0.125 | ± 2.50 | ± 0.125 | ± 2.50 |
| | | 1 | ± 0.04 | ± 4.00 | ± 0.04 | ± 4.00 |
| 5–50 | 0.5 | 50 | ± 0.5 | ± 1.00 | ± 0.25 | ± 0.50 |
| | | 25 | ± 0.375 | ± 1.50 | ± 0.25 | ± 1.00 |
| | | 5 | ± 0.15 | ± 3.00 | ± 0.1 | ± 2.00 |
| 50–300 | 5 | 300 | ± 2.1 | ± 0.70 | ± 0.75 | ± 0.25 |
| | | 150 | ± 1.5 | ± 1.00 | ± 0.75 | ± 0.50 |
| | | 50 | ± 0.75 | ± 1.50 | ± 0.4 | ± 0.80 |

* DLAB specifications are used as guidelines and the user calibration should refer to the industrial standard ISO 8655

# dPette+

## Multi-functional 8-channel Electronic Pipette

DLAB multi-functional high performance 8-channel electronic pipette offers productive pipetting with its easy to understand operations. Its uniquely lightweight streamlined design ensures an effortless transfer of multiple samples with an increased throughput and data reproducibility.



- **Easy Operation**

  Intuitive interface for setting functions and parameters.

- **Ergonomic Design**

  Low operation forces for complete work, which is exceptionally fatigue-free.

- **Convenient and Versatile**

  360° pipetting. Double knobs for simple and versatile control. Easy loading tip cones offers smooth and leak free operation.

- **Dual charging modes**

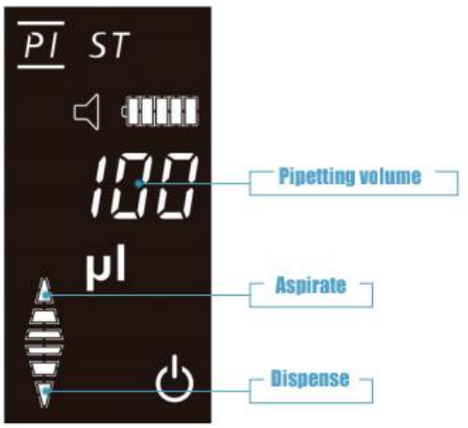
  Use of USB charger or the charging stand to ensure uninterrupted use.

### Three easy steps to operate dPette+

| 1 | 2 | 3 |
|---|---|---|
| Long press the Parameter Knob for 2 seconds to Start | Quickly turn the Function Wheel to Activate, Rotate to Switch Pipetting, Continuous Dispensing, and other Function Settings | After quickly turning the Parameter Knob to Unlock, Turn to Adjust the Volume, Press to Pipette, Long press to Mix |

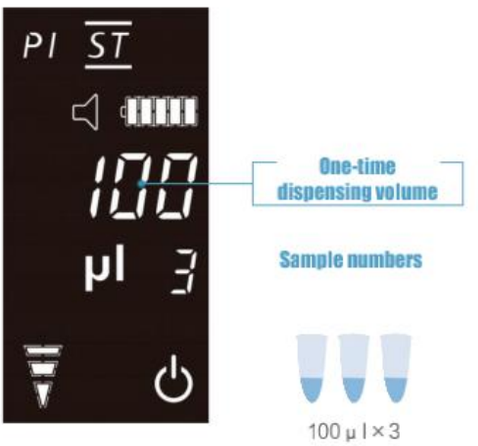
## Pipetting function

Parameter Knob press → Pipetting,
Long press → Mixing




## Dispensing function

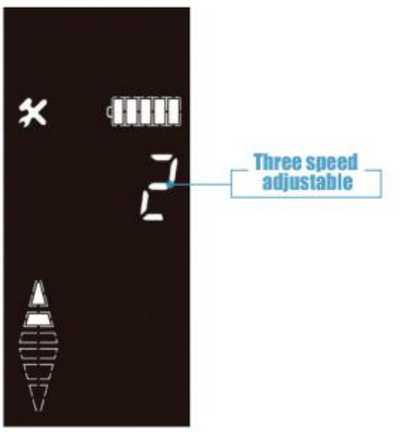
Dispensing times = Pipette max volume / Single sample volume




100 µ l × 3

## Other function

Pipetting speed adjustment
Key tone adjustment




## Complimentary Pipette Holder

Supports dual charging mode

Automatic Calibration Support
Connect it to the computer, with the free software provided for calibration



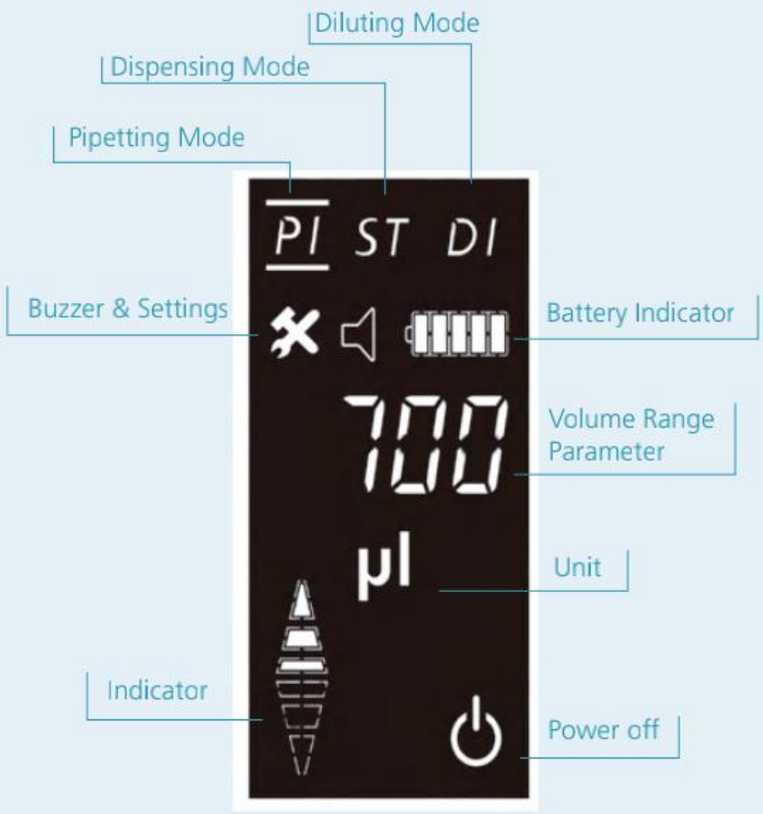
# Specifications

| Channels | Volume Range | Increment | Test Volume | Accuracy error | | Precision error | |
|---|---|---|---|---|---|---|---|
| | µL | µL | µL | µL | % | µL | % |
| 8 | 0.5–10 | 0.01 | 10 | ± 2.00 | ± 0.20 | ± 1.0 | ± 0.1 |
| | | | 1 | ± 8.0 | ± 0.08 | ± 5.00 | ± 0.05 |
| 8 | 10–100 | 0.1 | 100 | ± 0.80 | ± 0.80 | ± 0.30 | ± 0.3 |
| | | | 10 | ± 3.00 | ± 0.3 | ± 2.00 | ± 0.2 |
| 8 | 30–300 | 1 | 300 | ± 0.60 | ± 1.80 | ± 0.3 | ± 0.9 |
| | | | 30 | ± 3.00 | ± 0.90 | ± 1.0 | ± 0.3 |

* SD=Standard Deviation * CV=Co-efficient of Variation
* DLAB specifications are used as guidelines and the user calibration should refer to the industrial standard ISO 8655.

dPette is an innovative Electronic Pipette developed by DLAB. It combines manual pipette features, as ergonomics and lightweight, with electronic pipette features, such as labor-saving and high accuracy, offering new pipetting experience to users.

# ELECTRONIC PIPETTE

# dPette+
## Multi functional Electronic Pipette

# dPette
## Simple Electronic Pipette

**dPette+**
For Pipetting, Mixing, Stepper and Dilution

**dPette**
For Pipetting and Mixing

## Features

- Motor driven digitally control pipette with multifunctions
- Easy Operations and Handling
- Intuitive menu interface settings; functions and operations
- Minimal force for pipetting operation
- High performance ensuring accuracy & repeatability
- 2 buttons for all operational settings
- Adjustable speed for aspiration and dispensing
- Li-ion battery enable longer operation time
- Convenient and Versatile
- Self-calibration applicable

## Specifications

| Channels | Volume Range | Increment | Test Volume | accuracy error | | precision error | |
|---|---|---|---|---|---|---|---|
| | µL | µL | µL | µL | % | µL | % |
| 1 | 0.5–10 | 0.01 | 10 | ±0.10 | ±1.00 | ±0.05 | ±0.50 |
| | | | 1 | ±0.035 | ±3.50 | ±0.03 | ±3.00 |
| 1 | 5–50 | 0.1 | 50 | ±0.40 | ±0.80 | ±0.15 | ±0.30 |
| | | | 5 | ±0.15 | ±3.00 | ±0.125 | ±2.50 |
| 1 | 30–300 | 1 | 300 | ±1.80 | ±0.60 | ±0.60 | ±0.20 |
| | | | 30 | ±0.09 | ±3.00 | ±0.21 | ±0.70 |
| 1 | 100–1000 | 5 | 1000 | ±6.00 | ±0.60 | ±2.00 | ±0.20 |
| | | | 100 | ±3.00 | ±3.00 | ±0.60 | ±0.60 |

DLAB specifications are used as guidelines and the user calibration should refer to the industrial standard ISO 8655

# Levo Plus

## Pipette Filler

Ergonomic fast pipetting solution with accurate speed control

# Features

- Intuitive and convenient speed with 6 levels
- Lightweight pipette filler compatible with glass or plastic serological pipettes (0.1 −100 mL)
- Ergonomic design for fatigue−free and effective streamlined pipetting
- LCD screen displays battery status and pipetting speed
- Quiet and powerful motor and pump fills 25 mL pipette in less than 5 seconds
- Long−lasting lithium−ion battery


# Specifications

| | |
|---|---|
| Aspiration Speed | 25mL<5s (6 Level) |
| Dispensing Speed | Motor (6 shift)/Gravity |
| Battery | Lithium−ion |
| Battery Service Life | More than 8 Hours of Intermittence Use |
| Charging Time | 2−3 Hours |
| Pipette Types | Glass or Plastic Pipette (0.1−100mL), Pasteur Pipettes |
| Filter | 0.45μm Hydrophobic |
| Weight | 200g |

# Levo ME

## Pipette Filler

Elegant design & reliable performance,
with long-life battery


## Features

- Enables single-handed operation with minimum effort
- Speed adjustment simply with finger tips
- Individually set aspiration (upper button) and dispense (lower button) speeds
- Compatible with glass or plastic serological pipettes(0.1-100mL)
- 0.45μm replaceable hydrophobic filter
- High capacity Li-ion battery enable long opperation time

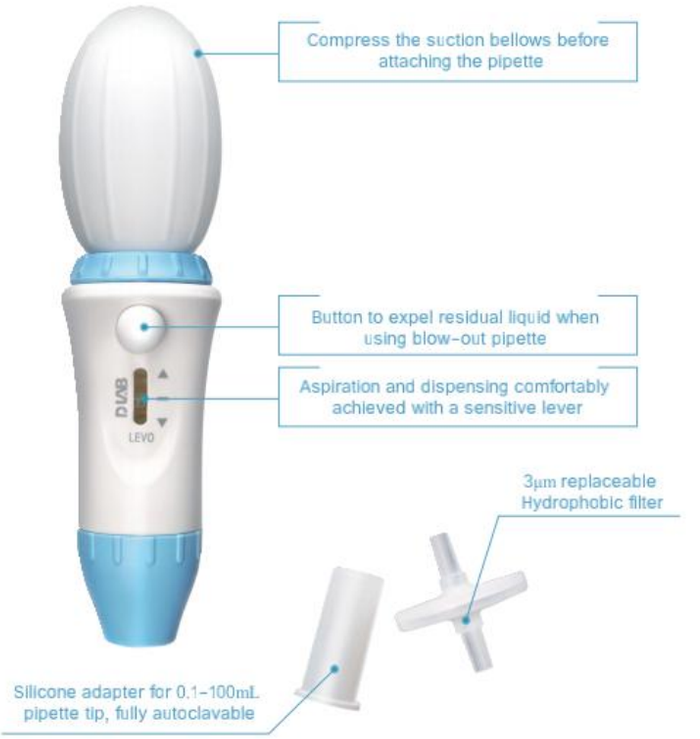
## Specifications

| | |
|---|---|
| Aspiration Speed | 25ml<7s |
| Dispensing Speed | Motor/Gravity |
| Battery | Lithium-ion |
| Battery Service Life | More than 8 Hours of Intermittence Use |
| Charging Time | 2-3 Hours |
| Pipette Types | Glass or Plastic Pipette (0.1-100mL), Pasteur Pipettes |
| Filter | 0.45μm Hydrophobic |
| Weight | 200g |

# Levo
## Pipette Controller

## Features

- Reduce hands-on time
- Compatible withglass or plastic serological pipettes (0.1 - 100mL)
- 3μm replaceable hydrophobic filter
- Easy to clean and maintain




# Mini Pipette
## Features

- Ergonomic design provides excellent operation experience;
- Smart body, ideal to combine with IVD reagents;
- Compatible with universal 200μL tips;

| Volumes | 200μL | 100μL | 75μL | 50μL | 30μL | 25μL | OEM |
|---|---|---|---|---|---|---|---|

# Levo E
## Pipette Pump

Designed for single-handed operation, Pipette Pump identifies itself with a thumbwheel, allowing precise aspiration or dispensing. The feature of side lever enables complete liquid dispensing, without a droplet remaining.

## Features

- Volume capacity 2mL, 10mL and 25mL
- Colour-coded by volume with green, blue and red
- Thumb wheel guarantees precise operation
- Resistant to acids and alkalis
- Easy for cleaning and maintenance

# StepMate

## Stepper

Positive-displacement, continuously adjustable, repetitive dispenser


| Sel. / Tips | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| 0.05ml | 10µl | 20µl | 30µl | 40µl | 50µl |
| 1.25ml | 25µl | 50µl | 75µl | 100µl | 125µl |
| 2.50ml | 50µl | 100µl | 150µl | 200µl | 250µl |
| 5.00ml | 100µl | 200µl | 300µl | 400µl | 500µl |
| 12.50ml | 250µl | 500µl | 750µl | 1000µl | 1250µl |
| 25.00ml | 500µl | 1000µl | 1500µl | 2000µl | 2500µl |
| 50.00ml | 1000µl | 2000µl | 3000µl | 4000µl | 5000µl |
| Steps | 48 | 23 | 15 | 11 | 8 |

## Features

- Slim, light and robust
- wide dispensing from 10µL to 5mL
- Up to 48 dispensing steps in succession
- Equipped with durable tip insertion lever
- With dispensing tips volume sizes from 0.5mL to 50mL

## Applications

Ideal for any application requiring repetitive dispensing in the clinical, hospital, biological, chemical, food and beverage, pharmaceutical industry.

### How to select dispensing volume

Find the required dispensing volume in the table.

Use the volume selection dial to set the required volume.

Select, and insert a dispensing tip.

Follow the maximum dispensing steps as stated.

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DLAB dispensing tips are convenient for viscous or foaming solutions, volatile liquids and applications where repetitive dispensing of volumes in long series is required
Dispensing tips are made from high quality materials without soft lubricants or other additives.

# Specifications

Note: The first and last dispensing liquid should be discarded for precision.

| Dial setting | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Number of steps | 48 | 23 | 15 | 11 | 8 |

| Cat. No. | Dispensing tips volume | Sample volume | | | | | Accuracy error | Precision error | Description |
|---|---|---|---|---|---|---|---|---|---|
| | µL | µL | | | | | % | % | |
| 17900032 | 0.50 | 10 | 20 | 30 | 40 | 50 | ± 0.8 | ≤ 0.7 | 0.5mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing |
| 17900033 | 1.25 | 25 | 50 | 75 | 100 | 125 | ± 0.8 | ≤ 0.5 | 1.25mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing |
| 17900034 | 2.50 | 50 | 100 | 150 | 200 | 250 | ± 0.8 | ≤ 0.4 | 2.5mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing |
| 17900035 | 5.00 | 100 | 200 | 300 | 400 | 500 | ± 0.4 | ≤ 0.3 | 5mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing |
| 17900036 | 12.50 | 250 | 500 | 750 | 1000 | 1250 | ± 0.3 | ≤ 0.3 | 12.5mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing |
| 17900037 | 25.00 | 500 | 1000 | 1500 | 2000 | 2500 | ± 0.2 | ≤ 0.3 | 25mL, piston PE-HD, cylinder PP, 1 packing, 2pcs/packing with 1 pc adapter |
| 17900038 | 50.00 | 1000 | 2000 | 3000 | 4000 | 5000 | ± 0.2 | ≤ 0.2 | 50mL, piston PE-HD, cylinder PP, 1 packing, 2pcs/packing with 1 pc adapter |

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