

TECHNICAL DATA SHEET

## ALab™ dPette & dPette+ Electronic Pipettes

*dPette+ (single-/8-channel) · dPette (single-channel) · motor driven · 0.5–1000 µL*



### ALab™ dPette & dPette+ Electronic Pipettes

The ALab™ dPette+ (8-channel and single-channel) and dPette (single-channel). Image shown for reference.

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## SECTION I

## Product Overview

The ALab™ dPette+ (single-channel: pipetting, mixing, stepper, dilution; 8-channel: pipetting, mixing, stepper) and the dPette (single-channel: pipetting, mixing) are motor driven electronic pipettes.

dPette+: single-channel and 8-channel; dPette: single-channel. dPette+ 8-channel: USB or charging-stand charging. One shared single-channel table; Li-ion battery.

## SECTION II

## Core Advantages

- **Motor Driven** — digital control with multifunctions
- **Menu Interface** — intuitive; 2 buttons for all settings
- **Minimal Force** — for pipetting operation
- **Speed** — adjustable for aspiration and dispensing
- **Battery** — Li-ion for longer operation time
- **Calibration** — self-calibration applicable

## SECTION III

## Specifications

### Technical data — dPette+ 8-channel · single-channel (dPette+ and dPette)

| Specifications |                                                                                       |
|----------------|---------------------------------------------------------------------------------------|
| Brand          | ALab™ by ACS Material                                                                 |
| Model          | dPette & dPette+                                                                      |
| SKU #          | ALDPTP00                                                                              |
| Product Type   | dPette+: Multi functional Electronic Pipette; dPette: Simple Electronic Pipette       |
| Charging       | dPette+ 8-channel: dual charging modes — USB charger or charging stand                |
| Accessory      | USB Charging (dPette+ 8-channel) — Supports dual charging mode: USB Charging.         |
| Accessory      | Contact Charging (dPette+ 8-channel) — Supports dual charging mode: Contact Charging. |
| Accessory      | Complimentary Pipette Holder (dPette+ 8-channel) — Complimentary Pipette Holder.      |

### Volume range and accuracy — dPette+ 8-channel · single-channel (dPette+ and dPette)

| dPette+ · 8-channel                                     |                |                  |                       |                      |                   |                  |
|---------------------------------------------------------|----------------|------------------|-----------------------|----------------------|-------------------|------------------|
| Volume range (μL)                                       | Increment (μL) | Test volume (μL) | Systematic error (μL) | Systematic error (%) | Random error (μL) | Random error (%) |
| 0.5–10                                                  | 0.01           | 10               | ±0.20                 | ±2.00                | ±0.10             | ±1.00            |
|                                                         |                | 5                | ±0.20                 | ±4.00                | ±0.10             | ±2.00            |
|                                                         |                | 1                | ±0.08                 | ±8.00                | ±0.05             | ±5.00            |
| 10–100                                                  | 0.1            | 100              | ±0.80                 | ±0.80                | ±0.30             | ±0.30            |
|                                                         |                | 50               | ±0.50                 | ±1.00                | ±0.40             | ±0.80            |
|                                                         |                | 10               | ±0.30                 | ±3.00                | ±0.20             | ±2.00            |
| 20–200                                                  | 1              | 200              | ±1.20                 | ±0.60                | ±0.60             | ±0.30            |
|                                                         |                | 100              | ±1.00                 | ±1.00                | ±0.50             | ±0.50            |
|                                                         |                | 20               | ±0.80                 | ±4.00                | ±0.20             | ±1.00            |
| 15–300                                                  | 1              | 300              | ±1.80                 | ±0.60                | ±0.90             | ±0.30            |
|                                                         |                | 150              | ±1.50                 | ±1.00                | ±0.75             | ±0.50            |
|                                                         |                | 15               | ±0.60                 | ±4.00                | ±0.15             | ±1.00            |
| 30–300                                                  | 1              | 300              | ±1.80                 | ±0.60                | ±0.90             | ±0.30            |
|                                                         |                | 150              | ±1.50                 | ±1.00                | ±0.75             | ±0.50            |
|                                                         |                | 30               | ±0.90                 | ±3.00                | ±0.30             | ±1.00            |
| Single-channel (one table shared by dPette+ and dPette) |                |                  |                       |                      |                   |                  |
| Volume range (μL)                                       | Increment (μL) | Test volume (μL) | Systematic error (μL) | Systematic error (%) | Random error (μL) | Random error (%) |
| 0.5–10                                                  | 0.01           | 10               | ±0.10                 | ±1.00                | ±0.05             | ±0.50            |
|                                                         |                | 5                | ±0.10                 | ±2.00                | ±0.10             | ±2.00            |
|                                                         |                | 1                | ±0.05                 | ±5.00                | ±0.03             | ±3.00            |
| 5–50                                                    | 0.1            | 50               | ±0.40                 | ±0.80                | ±0.15             | ±0.30            |
|                                                         |                | 25               | ±0.25                 | ±1.00                | ±0.25             | ±1.00            |
|                                                         |                | 5                | ±0.20                 | ±4.00                | ±0.125            | ±2.50            |
| 20–200                                                  | 1              | 200              | ±1.20                 | ±0.60                | ±0.40             | ±0.20            |
|                                                         |                | 100              | ±1.00                 | ±1.00                | ±0.40             | ±0.40            |
|                                                         |                | 20               | ±0.80                 | ±4.00                | ±0.20             | ±1.00            |
| 30–300                                                  | 1              | 300              | ±1.80                 | ±0.60                | ±0.60             | ±0.20            |
|                                                         |                | 100              | ±1.00                 | ±1.00                | ±0.40             | ±0.40            |
|                                                         |                | 30               | ±0.90                 | ±3.00                | ±0.21             | ±0.70            |
| 100–1000                                                | 5              | 1000             | ±6.00                 | ±0.60                | ±2.00             | ±0.20            |
|                                                         |                | 500              | ±5.00                 | ±1.00                | ±1.00             | ±0.20            |
|                                                         |                | 100              | ±2.00                 | ±2.00                | ±0.60             | ±0.60            |

**Scope of delivery**

- **Standard configuration:** one ALab™ dPette+ or dPette of the selected model, configuration and volume range.
- **Additional items:** specify separately in the quotation. The TDS lists the product specifications, not the standard packing list.

## SECTION IV

## Applications

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The dPette+ and dPette are motor driven pipettes for pipetting and mixing; the single-channel dPette+ adds stepper and dilution, the dPette+ 8-channel adds stepper.

Confirm the model, configuration and volume range before ordering.

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