

TECHNICAL DATA SHEET

ALab™ E-Pette Electronic Pipette

2.1-inch OLED HD touchscreen · one-touch tip ejection · nine volume ranges, 0.5–20000 µL



ALab™ E-Pette Electronic Pipette

The ALab™ E-Pette Electronic Pipette. Image shown for reference.

CONTENTS

- 01 Product Overview
- 02 Core Advantages
- 03 Specifications
- 04 Applications

ACS MATERIAL, LLC

959 E Walnut St., Suite 100
Pasadena, CA 91106, USA

Phone +1 (866) 227-0656

Fax +1 (781) 518-0284

contact@acsmaterial.com

Revision Date **10/16/2026**

SECTION I

Product Overview

With smart touch control, a high-precision motor and one-touch tip ejection, the ALab™ E-Pette Electronic Pipette delivers a comfortable, effortless and reliable pipetting experience. It has a 2.1-inch OLED HD touchscreen with a clear, intuitive interface for easier operation, light-touch keys for effortless pipetting and an ambidextrous auto tip-eject key.

The handle curve fits naturally in the palm and the button layout is smooth and intuitive, effectively reducing hand fatigue and joint strain even during prolonged use. Nine volume ranges (0.5–10 to 1000–20000 µL) are published with increment, test volumes, systematic error and random error; each range has its own SKU.

SECTION II

Core Advantages

- **HD Touchscreen** — 2.1-inch OLED display, intuitive app-like interface
- **High-Precision Motor** — minimizes user error, accurate and consistent pipetting
- **Worry-Free Calibration** — built-in periodic calibration reminders and programs
- **One-Touch Tip Ejection** — reduces hand strain, enhances comfort and efficiency
- **Smart Management** — upgraded intelligent functions with data traceability
- **Comprehensive Functions** — pipetting, dispensing, auto-dispensing, manual pipetting, pipetting + mixing, multi-dispensing, custom dispensing, dilution, titration

SECTION III

Specifications

Technical data — volume range • increment • test volume • systematic and random error

Specifications	
Brand	ALab™ by ACS Material
Model	E-Pette
SKU #	ALEPET00
Product Type	Electronic Pipette
Display	2.1-inch OLED HD touchscreen
Tip ejection	Ambidextrous auto tip-eject key, one-touch tip ejection
Volume ranges	Nine ranges, 0.5–20000 µL
Functions	Pipetting, dispensing, auto-dispensing, manual pipetting, pipetting + mixing, multi-dispensing, custom dispensing, dilution, titration

Volume range and accuracy — volume range • increment • test volume • systematic and random error

Volume range and accuracy						
Volume range (µL)	Increment (µL)	Test volume (µL)	Systematic error (µL)	Systematic error (%)	Random error (µL)	Random error (%)
0.5–10	0.01	10	±0.1	±1.0	±0.04	±0.4
		5	±0.075	±1.5	±0.04	±0.8
		1	±0.025	±2.5	±0.018	±1.8
1–20	0.02	20	±0.2	±1.0	±0.06	±0.3
		10	±0.12	±1.2	±0.06	±0.6
		2	±0.1	±5.0	±0.03	±1.5
5–100	0.1	100	±0.8	±0.8	±0.2	±0.2
		50	±0.5	±1.0	±0.15	±0.3
		10	±0.2	±2.0	±0.1	±1.0
10–200	0.2	200	±1.2	±0.6	±0.4	±0.2
		100	±1.0	±1.0	±0.3	±0.3
		20	±0.5	±2.5	±0.14	±0.7
15–300	0.2	300	±1.8	±0.6	±0.6	±0.2
		150	±1.5	±1.0	±0.45	±0.3
		30	±0.75	±2.5	±0.21	±0.7

Volume range and accuracy (continued)						
Volume range (μL)	Increment (μL)	Test volume (μL)	Systematic error (μL)	Systematic error (%)	Random error (μL)	Random error (%)
50–1,000	1	1,000	±6	±0.6	±2	±0.2
		500	±5	±1.0	±1	±0.2
		100	±3	±3.0	±0.6	±0.6
200–5000	5	5000	±30	±0.6	±7.5	±0.15
		2,500	±30	±1.2	±7.5	±0.3
		500	±15	±3.0	±3	±0.6
500–10000	10	10,000	±60	±0.6	±15	±0.15
		5,000	±40	±0.8	±10	±0.2
		1,000	±30	±3.0	±6	±0.6
1000–20000	10	2,0000	±60	±0.6	±15	±0.15
		10000	±40	±0.8	±10	±0.2
		2,000	±30	±3.0	±6	±0.6

Scope of delivery

- **Standard configuration:** one ALab™ E-Pette Electronic Pipette of the selected volume range.
- **Additional items:** specify separately in the quotation. The TDS lists the product specifications, not the standard packing list.

SECTION IV

Applications

The E-Pette supports pipetting, dispensing, auto-dispensing, manual pipetting, pipetting + mixing, multi-dispensing, custom dispensing, dilution and titration, meeting diverse experimental needs with flexibility.

Product value: smart touch control with a 2.1-inch OLED HD touchscreen, a high-precision motor, one-touch tip ejection, data traceability and built-in periodic calibration reminders in nine volume ranges from 0.5 to 20000 μL. Confirm the volume range that matches your volumes before ordering.

Revision Date: 10/16/2026

DISCLAIMER

ALab™ is a trademark of ACS Material, LLC. ACS Material, LLC believes that the information in this Technical Data Sheet is accurate and represents the best and most current information available to us. ACS Material makes no representations or warranties, either express or implied, regarding the suitability of the equipment for any application or the accuracy of the information contained within this document. Specifications are typical and may vary; confirm product details and application suitability at the time of quotation. Accordingly, ACS Material will not be responsible for damages resulting from use of or reliance upon this information.