

Variable Volume Micropipette

Instructions for Use

Laboratory Equipment

Intended use

Single-channel, air-displacement micropipette for accurate transfer of small liquid volumes in research, clinical and teaching laboratories.

Intended users

Trained laboratory staff and supervised students.

Read this manual completely before first use and keep it with the product. This document provides general operating, care and safety guidance. Where the product is supplied with manufacturer labeling or instructions, those take precedence. For questions, a replacement copy, or a digital copy of this manual, email sales@scimedstore.com.

1. Safety

Safety warnings and cautions

- Wear gloves, eye protection and a lab coat when handling samples and reagents.
- Always use a tip; never draw liquid directly into the pipette.
- Do not set the volume outside the range marked on the pipette.
- Do not lay the pipette down or turn it upside down with liquid in the tip.
- Release the plunger slowly; letting it snap back can draw liquid into the pipette.
- Handle biological or hazardous samples according to your laboratory's safety rules.

2. Package contents

- Micropipette (one per volume range ordered; three with the combo pack)

Check contents on receipt. Report missing or damaged items to sales@scimedstore.com within 48 hours of delivery.

3. Specifications

Type	Single-channel, variable-volume, air-displacement
Volume range	Varies by variant: 5-50 µL, 10-100 µL, 100-1000 µL, or combo pack of all three
Sterilization	Autoclavable, 121 °C, 15 psi, 10-15 min
Tip compatibility	Universal tip cone
Adjustment	Thumbwheel with digital counter and volume lock
Tips	Not included

4. Unpacking and setup

- 1 Unlock the volume lock.
- 2 Turn the thumbwheel to the required volume within the range marked on the pipette.
- 3 Lock the volume.
- 4 Press the tip cone firmly into a tip of the correct size.

5. Operation

Forward pipetting

- 1 Hold the pipette upright and press the plunger to the first stop.
- 2 Dip the tip just below the liquid surface.
- 3 Release the plunger slowly and smoothly.
- 4 Wait a moment, then withdraw the tip from the liquid.
- 5 Place the tip against the wall of the receiving vessel.
- 6 Press the plunger to the first stop, pause, then press to the second stop to expel the remaining liquid.
- 7 Withdraw the tip with the plunger still pressed, then release it.

- 8 Eject the tip into a waste container.

6. Cleaning and disinfection

- Wipe the outside with a cloth dampened with mild detergent or a laboratory disinfectant.
- The listing states the pipette is fully autoclavable at 121 °C, 15 psi for 10-15 minutes.
- Allow the pipette to cool and dry completely after autoclaving before use.
- If liquid enters the pipette, clean and dry it before further use.

7. Maintenance and storage

- Store upright in a pipette stand when not in use.
- Check accuracy regularly against a laboratory balance and recalibrate as required by your laboratory.
- Store at the maximum volume setting if recommended by your laboratory practice to relieve spring tension.
- Keep the tip cone clean and undamaged so tips seal properly.

8. Troubleshooting

Problem	Likely cause	What to do
Liquid drips from the tip	Tip not sealed or wrong tip	Press the tip on firmly or try a different compatible tip
Volume inaccurate	Pipette out of calibration or volume lock not set	Check the setting, then check and recalibrate against a balance
Plunger sticks	Liquid or residue inside	Clean and dry the pipette; arrange service if it continues
Volume setting changes	Volume lock not engaged	Lock the volume after setting it
Air bubbles in tip	Plunger released too fast or tip not immersed	Release the plunger slowly and keep the tip under the surface

9. Disposal

- Dispose of used tips according to your laboratory's waste rules (biohazard where applicable).
- Decontaminate the pipette before disposal and dispose of it per local regulations.

10. Warranty and support

Products are covered by SciMed's standard warranty (12 months from purchase unless a different period is stated on your invoice). Warranty terms: scimedstore.com/pages/warranty.

Support, spare parts and additional copies of this manual: sales@scimedstore.com. Please include your order number and a photo of the product or issue.

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