

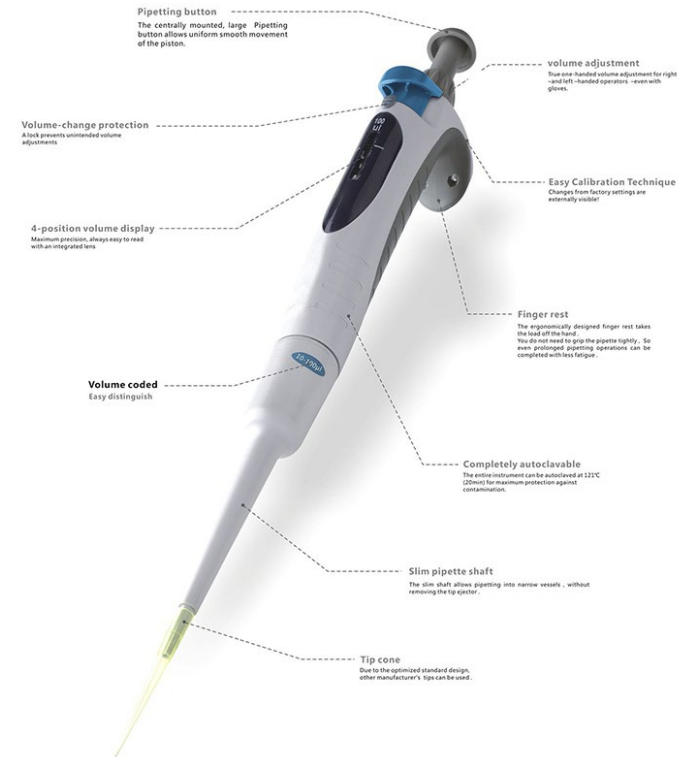
single channel pipette with adjustable volume range

Manual adjustable single-channel pipette is a basic laboratory pipetting tool, relying on finger pressure piston operation, suitable for quantitative pipetting of micro-volume liquid.

Manual Single Channel Pipette

Main Features

1. Air displacement principle: Precise pipetting/drainage via mechanical piston control—covers 0.1µL to 10mL models.
2. Center-mounted piston button: Ergonomic for natural thumb movement—reduces misoperation, improves efficiency.
3. Manual single-channel: One liquid channel for high-frequency, precise single-reagent tasks.
4. 4-digit volume display: Clear, accurate settings—minimizes errors.
5. Ergonomic design: Finger rests and 12.5mm short stroke—low fatigue, comfortable for long use.
6. Universal tip compatibility: Cone fits most mainstream tips—no repeated replacements needed.
7. High-temp autoclave sterilization: Sterilize whole pipette at 121°C—no need to disassemble.



8. Anti-misadjustment: Range lock protects against accidental volume changes.
9. Chemical-resistant construction: Ceramic tip cone/piston—durable, corrosion-resistant.

Advantages

1. Manual control: Reliable, no power needed—ideal for field/lab use.
2. Simple maintenance: Robust mechanics—routine cleaning and periodic calibration only.
3. Stable accuracy: Easy calibration, no tools required—fine-tune as needed.
4. Easy to use: Intuitive operation—novices can get started quickly.
5. Cost-effective: No electronics, low failure rate—great for bulk lab purchases.
6. Efficient: Lightweight/sensitive feedback—no fatigue during extended use.
7. Multi-range: 9 specs from 0.1 μ L to 10mL—covers diverse experimental needs.
8. International standards: CE certified—complies with EU lab equipment specs.

Working Principle

Air displacement: User presses piston to expel air, then releases to create negative pressure and aspirate liquid; pressing again dispenses liquid. Entire process is manually controlled for precise volume handling.

Typical Applications

1. Molecular biology: DNA extraction, PCR setup, agarose gel prep.
2. Drug R&D: Reagent mixing, dilution, candidate compound blending.
3. Lab analysis: Clinical testing, biochemistry, microbiology.
4. Food/environmental: Sample dilution, pollutant/water analysis.
5. Education/training: Teaching, research beginner training.

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Model	Volume range	Increment	Accuracy	Coefficient of variation
TR1H	0.1 to 1 uL	0.001 uL	±2%	1.2%
TR10H	0.5 to 10 uL	0.01 uL	±1%	0.5%
TR20H	2 to 20 uL	0.02 uL	±0.8%	0.4%
TR50H	5 to 50 uL	0.05 uL	±0.6%	0.2%
TR100H	10 to 100 uL	0.1 uL	±0.6%	0.2%

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Model	Volume range	Increment	Accuracy	Coefficient of variation
TR200H	20 to 200 μ L	0.2 μ L	$\pm 0.6\%$	0.2%
TR1KH	100 to 1000 μ L	1 μ L	$\pm 0.6\%$	0.2%
TR5KH	500 to 5000 μ L	5 μ L	$\pm 0.6\%$	0.2%
TR10KH	1000 to 10000 μ L	10 μ L	$\pm 0.6\%$	0.2%