

manual multichannel pipette that can be autoclaved at 121°C

Manual adjustable multichannel pipette is a manual type liquid dispensing tool designed for high throughput experiments, which is widely used in life science, molecular biology, drug screening and other fields.

Manual Multichannel Pipette (8- & 12-Channel)

Main Features

1. Multi-channel configuration: 8- and 12-channel models for 96/384-well microplates—boosts throughput.
2. Digital adjustment: Four-digit display for precise, intuitive volume setting.
3. Center-mounted operation buttons: Ergonomic, reduces fatigue, suitable for right or left hand.
4. Optimized pipette cone: Compatible with major tip brands, easy sealing/loading/unloading.
5. Anti-corrosion ceramic piston: Durable, resists chemicals, prolongs lifespan.



6. Autoclave sterilization: Entire pipette can be sterilized at 121°C without disassembly—prevents cross-contamination.
7. Independent unloading button: Easy, smooth tip ejection—prevents accidental operation.
8. Easy calibration: Tool-free quick calibration for long-term accuracy.
9. Rotating suction chamber: Head rotates for flexible, comfortable operation at any angle.
10. Short stroke piston: Only 12.5mm—minimizes thumb fatigue.
11. Volume lock: Prevents accidental volume changes during use.

Advantageous Highlights

1. High efficiency: Quickly pipette multiple wells—ideal for high-throughput labs.
2. Reduced errors: Accurate volume setting, high repeatability, low CV values.
3. Ergonomic: Minimizes muscle tension, ideal for extended use.
4. Multi-tip compatibility: No need for special tips—lowers consumable costs.
5. Easy maintenance: Detachable channel pistons for simple cleaning/repair/replacement.

Working Principle

Air displacement: Each channel has a piston. Pressing the button moves the piston down, expelling air; releasing creates negative pressure to aspirate liquid; pressing again dispenses liquid. Independent piston design ensures consistent performance across all channels.

Application Areas

1. ELISA: Rapid sample addition, improved consistency.
2. Dilutions: Simple, repeatable dilution setup.
3. Drug/compound screening: High-throughput sample loading.
4. Molecular biology: qPCR, DNA extraction, reagent handling.
5. Cell culture: Efficient addition of media and reagents.
6. Clinical testing: Biochemical analysis, virus detection, serology.

eight and twelve channel pipette

Model(eight)	Model(twelve)	Volume step	Volume range	Increment	Accuracy	Coefficient of variation	Type of tips
TR8D10H	TR12D10H	0.5 to 10 uL	10, 5, 1 uL	0.01 uL	±1.6%, ±2%, ±8%	±1.0%, ±2%, ±6%	20 uL
TR8D50H	TR12D50H	5 to 50 uL	50, 25, 5 uL	0.05 uL	±0.8%, ±1.4%, ±6%	±0.4%, ±0.8%, ±3%	200 uL
TR8D100H	TR12D100H	10 to 100 uL	100, 50, 10 uL	0.1 uL	±0.8%, ±1.4%, ±4%	±0.3%, ±0.6%, ±2%	200, 300 uL
TR8D200H	TR12D200H	20 to 200 uL	200, 100, 20 uL	0.2 uL	±0.8%, ±1.4%, ±4%	±0.3%, ±0.6%, ±1.5%	200, 300 uL
TR8D300H	TR12D300H	30 to 300 uL	300, 150, 30 uL	0.3 uL	±0.6%, ±1.2%, ±3%	±0.3%, ±0.6%, ±1.5%	300 uL