

Liquid Handling



Centrifuge



Mixer & Rotator



Shaker



Magnetic Stirrer



Overhead Stirrer



Homogenizer



Rotary Evaporator



Hotplate



PCR



Dry Bath



TopPette

Mechanical Pipettes (Adjustable & Fixed)

All DRAGONLAB pipettes have been quality tested according to ISO8655-2:2002 with calibration certificate. The quality control involves gravimetric testing of each pipette with distilled water at 22°C.



Features for TopPette

- Lightweight, ergonomic, low force design
- Digital display clearly reads volume setting
- The pipettes cover volume range of 0.1µl to 10ml
- Easy to calibrate and maintain with tool supplied
- Design helps avoid repetitive strain injuries
- Calibrated in accordance with ISO8655. Each pipette supplied with individual test certificate
- The low part is available for autoclaving

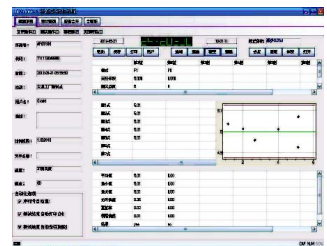
Features for multi-channel TopPette

- 8 and 12 channel pipettes are available for standard 96-well plate
- Dispensing head rotates for optimum pipetting convenience
- Individual piston and tip cone assemblies allow easy repair and maintenance
- Compound material tip cone design allows visual seal verification
- Can be used with universal style pipette tips

Calibration

Please visit our website for online calibration at www.dragon-lab.com. Through the online calibration software, users can perform simple, accurate and timely calibration with free cost, and avoid the calibration error due to non-professional operation.

We will support and help you to achieve consistently excellent results.



Specifications

| Single-channel Adjustable Volume Pipettes | | | | | | |
|---|-----------|-------------|---|--------|--|------|
| Volume Range | Increment | Test Volume | Maximum permissible systematic error (Inaccuracy) | | Maximum permissible random error (Imprecision) | |
| | | | % | µL | % | µL |
| | | 2.5µL | 2.50% | 0.0625 | 2.00% | 0.05 |

| | | | | | | |
|-------------|--------|--------|--------|--------|-------|--------|
| 0.1-2.5µL | 0.05µL | 1.25µL | 3.00% | 0.0375 | 3.00% | 0.0375 |
| | | 0.25µL | 12.00% | 0.03 | 6.00% | 0.015 |
| 0.5-10µL | 0.1µL | 10µL | 1.00% | 0.1 | 0.80% | 0.08 |
| | | 5µL | 1.50% | 0.075 | 1.50% | 0.075 |
| | | 1µL | 2.50% | 0.025 | 1.50% | 0.015 |
| 2-20µL | 0.5µL | 20µL | 0.90% | 0.18 | 0.40% | 0.08 |
| | | 10µL | 1.20% | 0.12 | 1.00% | 0.1 |
| | | 2µL | 3.00% | 0.06 | 2.00% | 0.04 |
| 5-50µL | 0.5µL | 50µL | 0.60% | 0.3 | 0.30% | 0.15 |
| | | 25µL | 0.90% | 0.225 | 0.60% | 0.15 |
| | | 5µL | 2.00% | 0.1 | 2.00% | 0.1 |
| 10-100µL | 1µL | 100µL | 0.80% | 0.8 | 0.15% | 0.15 |
| | | 50µL | 1.00% | 0.5 | 0.40% | 0.2 |
| | | 10µL | 3.00% | 0.3 | 1.50% | 0.15 |
| 20-200µL | 1µL | 200µL | 0.60% | 1.2 | 0.15% | 0.3 |
| | | 100µL | 0.80% | 0.8 | 0.30% | 0.3 |
| | | 20µL | 3.00% | 0.6 | 1.00% | 0.2 |
| 50-200µL | 1µL | 200µL | 0.60% | 1.2 | 0.15% | 0.3 |
| | | 100µL | 0.80% | 0.8 | 0.30% | 0.3 |
| | | 50µL | 1.00% | 0.5 | 0.40% | 0.2 |
| 100-1000µL | 5µL | 1000µL | 0.60% | 6 | 0.20% | 2 |
| | | 500µL | 0.70% | 3.5 | 0.25% | 1.25 |
| | | 100µL | 2.00% | 2 | 0.70% | 0.7 |
| 200-1000µL | 5µL | 1000µL | 0.60% | 6 | 0.20% | 2 |
| | | 500µL | 0.70% | 3.5 | 0.25% | 1.25 |
| | | 200µL | 0.90% | 1.8 | 0.30% | 0.6 |
| 1000-5000µL | 50µL | 5000µL | 0.50% | 25 | 0.15% | 7.5 |
| | | 2500µL | 0.60% | 15 | 0.30% | 7.5 |
| | | 1000µL | 0.70% | 7 | 0.30% | 3 |
| 2-10mL | 0.1mL | 10mL | 0.60% | 60 | 0.20% | 20 |
| | | 5mL | 1.20% | 60 | 0.30% | 15 |
| | | 2mL | 3.00% | 60 | 0.60% | 12 |

8-channel Adjustable Volume Pipettes

| Volume Range | Increment | Test Volume | Maximum permissible systematic error (Inaccuracy) | | Maximum permissible random error (Imprecision) | |
|--------------|-----------|-------------|---|-------|--|-------|
| | | | % | µL | % | µL |
| | | | 0.5-10µL | 0.1µL | 10µL | 1.50% |
| 5µL | 2.50% | 0.125 | | | 2.50% | 0.125 |
| 1µL | 4.00% | 0.04 | | | 4.00% | 0.04 |
| 5-50µL | 0.5µL | 50µL | 1.00% | 0.5 | 0.50% | 0.25 |
| | | 25µL | 1.50% | 0.375 | 1.00% | 0.25 |
| | | 5µL | 3.00% | 0.15 | 2.00% | 0.1 |
| 50-300µL | 5µL | 300µL | 0.70% | 2.1 | 0.25% | 0.75 |
| | | 150µL | 1.00% | 1.5 | 0.50% | 0.75 |
| | | 50µL | 1.50% | 0.75 | 0.80% | 0.4 |

12-channel Adjustable Volume Pipettes

| Volume Range | Increment | Test Volume | Maximum permissible systematic error (Inaccuracy) | | Maximum permissible random error (Imprecision) | |
|--------------|-----------|-------------|---|-------|--|-------|
| | | | % | µL | % | µL |
| | | | 0.5-10µL | 0.1µL | 10µL | 1.50% |
| 5µL | 2.50% | 0.125 | | | 2.50% | 0.125 |
| 1µL | 4.00% | 0.04 | | | 4.00% | 0.04 |
| 5-50µL | 0.5µL | 50µL | 1.00% | 0.5 | 0.50% | 0.25 |
| | | 25µL | 1.50% | 0.375 | 1.00% | 0.25 |
| | | 5µL | 3.00% | 0.15 | 2.00% | 0.1 |
| 50-300µL | 5µL | 300µL | 0.70% | 2.1 | 0.25% | 0.75 |
| | | 150µL | 1.00% | 1.5 | 0.50% | 0.75 |
| | | 50µL | 1.50% | 0.75 | 0.80% | 0.4 |

Fixed Volume Pipettes

| Volume Range | Increment | Test Volume | Maximum permissible systematic error (Inaccuracy) | | Maximum permissible random error (Imprecision) | |
|--------------|-----------|-------------|---|------|--|------|
| | | | % | µL | % | µL |
| | | | 5µL | - | 5µL | 1.3% |
| 10µL | - | 10µL | 0.8% | 0.08 | 0.8% | 0.08 |

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| | | | | | | |
|--------|----|--------|------|-------|-------|-------|
| 20µL | - | 20µL | 0.6% | 0.12 | 0.5% | 0.1 |
| 25µL | - | 25µL | 0.5% | 0.125 | 0.3% | 0.075 |
| 50µL | - | 50µL | 0.5% | 0.25 | 0.3% | 0.15 |
| 100µL | - | 100µL | 0.5% | 0.5 | 0.3% | 0.3 |
| 200µL | - | 200µL | 0.4% | 0.8 | 0.2% | 0.4 |
| 250µL | -- | 250µL | 0.4% | 1.0 | 0.2% | 0.5 |
| 500µL | - | 500µL | 0.3% | 1.5 | 0.2% | 1.0 |
| 1000µL | - | 1000µL | 0.3% | 3.0 | 0.2% | 2.0 |
| 2000µL | - | 2000µL | 0.3% | 6.0 | 0.15% | 3.0 |
| 5000µL | - | 5000µL | 0.3% | 15 | 0.15% | 7.5 |

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