

# Technical Specification

| Single-channel Adjustable Volume Electronic Pipettes |           |             |                  |         |              |         |
|------------------------------------------------------|-----------|-------------|------------------|---------|--------------|---------|
| Volume Range                                         | Increment | Test Volume | Systematic Error |         | Radomn Error |         |
| μL                                                   | μL        | μL          | μL               | %       | μL           | %       |
| 0.1~2.5                                              | 0.05      | 2.5         | ±2.5             | ±0.0625 | ±2.0         | ±0.05   |
|                                                      |           | 1.25        | ±3.0             | ±0.0375 | ±3.0         | ±0.0375 |
|                                                      |           | 0.25        | ±12.0            | ±0.03   | ±6.0         | ±0.015  |
| 0.5~10                                               | 0.1       | 10          | ±1.0             | ±0.1    | ±0.8         | ±0.08   |
|                                                      |           | 5           | ±1.5             | ±0.075  | ±1.5         | ±0.075  |
|                                                      |           | 1           | ±2.5             | ±0.025  | ±1.5         | ±0.015  |
| 2~20                                                 | 0.5       | 20          | ±0.9             | ±0.18   | ±0.04        | ±0.015  |
|                                                      |           | 10          | ±1.2             | ±0.12   | ±1.0         | ±0.08   |
|                                                      |           | 2           | ±3.0             | ±0.06   | ±2.0         | ±0.1    |
| 5~50                                                 | 0.5       | 50          | ±0.6             | ±0.3    | ±0.3         | ±0.15   |
|                                                      |           | 25          | ±0.9             | ±0.225  | ±0.6         | ±0.15   |
|                                                      |           | 5           | ±2.0             | ±0.1    | ±2.0         | ±0.1    |
| 10~100                                               | 1         | 100         | ±0.8             | ±0.8    | ±0.15        | ±0.15   |
|                                                      |           | 50          | ±1.0             | ±0.5    | ±0.4         | ±0.2    |
|                                                      |           | 10          | ±3.0             | ±0.3    | ±1.5         | ±0.15   |
| 20~200                                               | 1         | 200         | ±0.6             | ±1.2    | ±0.15        | ±0.3    |
|                                                      |           | 100         | ±0.8             | ±0.8    | ±0.3         | ±0.3    |
|                                                      |           | 20          | ±3.0             | ±0.6    | ±1.0         | ±0.2    |
| 50~200                                               | 1         | 200         | ±0.6             | ±1.2    | ±0.15        | ±0.3    |
|                                                      |           | 100         | ±0.8             | ±0.8    | ±0.3         | ±0.3    |
|                                                      |           | 50          | ±1.0             | ±0.5    | ±0.4         | ±0.2    |
| 100~1000                                             | 5         | 1000        | ±0.6             | ±6      | ±2.0         | ±2      |
|                                                      |           | 500         | ±0.7             | ±3.5    | ±0.2         | ±1.25   |
|                                                      |           | 100         | ±2.0             | ±2      | ±0.25        | ±0.7    |
| 200~1000                                             | 5         | 1000        | ±0.6             | ±6      | ±2.0         | ±2      |
|                                                      |           | 500         | ±0.7             | ±3.5    | ±0.2         | ±1.25   |
|                                                      |           | 200         | ±0.9             | ±1.8    | ±0.3         | ±0.6    |
| 500~5000                                             | 50        | 5000        | ±0.5             | ±25     | ±0.15        | ±7.5    |
|                                                      |           | 2500        | ±0.6             | ±15     | ±0.3         | ±7.5    |
|                                                      |           | 500         | ±0.7             | ±3.5    | ±0.3         | ±1.5    |
| 1000~5000                                            | 50        | 5000        | ±0.5             | ±25     | ±0.15        | ±7.5    |
|                                                      |           | 2500        | ±0.6             | ±15     | ±0.3         | ±7.5    |
|                                                      |           | 1000        | ±0.7             | ±7      | ±0.3         | ±3      |
| 1000~10000                                           | 100       | 10000       | ±0.6             | ±60     | ±0.2         | ±20     |
|                                                      |           | 5000        | ±1.2             | ±60     | ±0.3         | ±15     |
|                                                      |           | 1000        | ±3.0             | ±30     | ±0.6         | ±6      |
| 2000~20000                                           | 100       | 2000        | ±120             | ±6.0    | ±60          | ±3.0    |
|                                                      |           | 10000       | ±120             | ±1.2    | ±60          | ±0.6    |
|                                                      |           | 20000       | ±120             | ±0.6    | ±60          | ±0.3    |

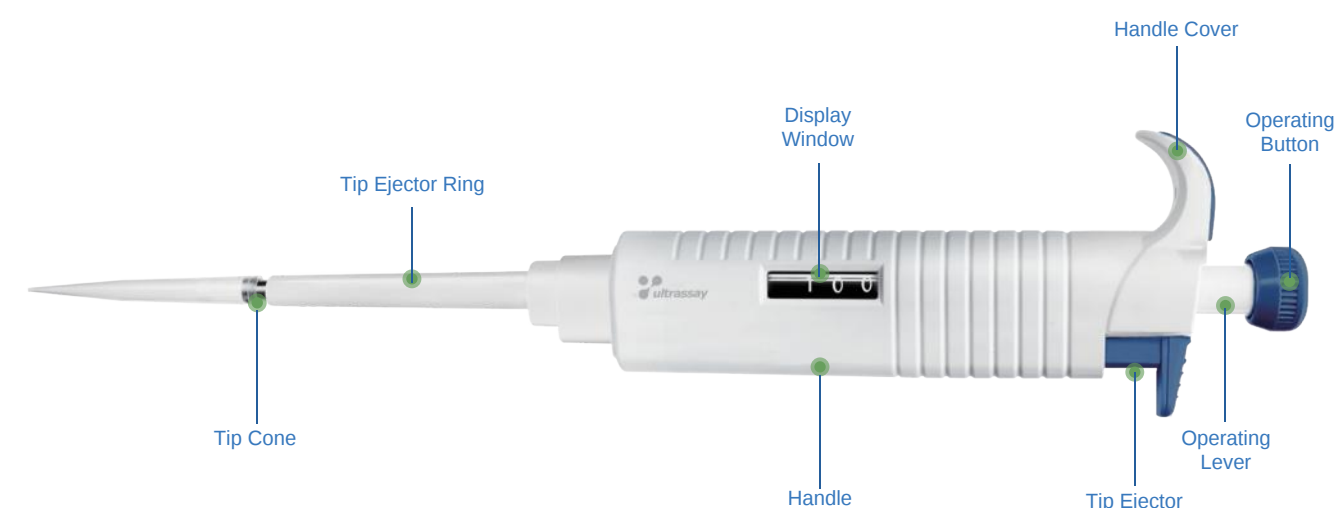
\*Ultrassay BioTech Co., Ltd. reserves the right of final interpretation of different specifications.

## MicroPette Plus

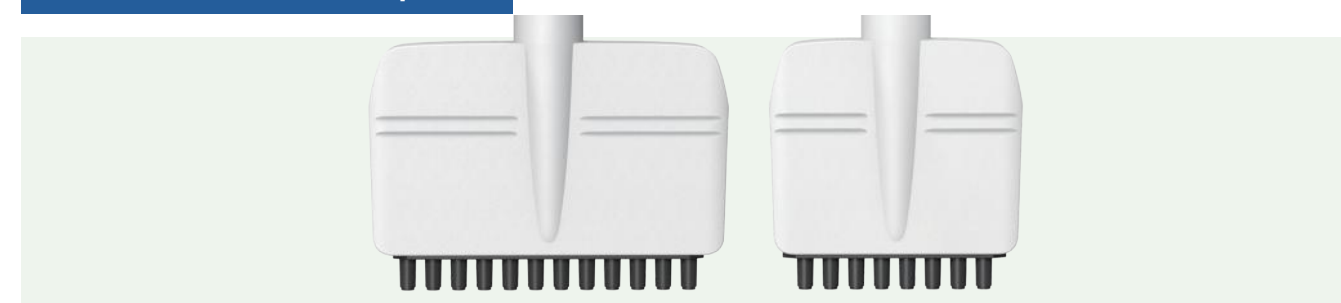
### Fully Autoclavable Mechanical Pipette

The MicroPette Plus pipette is fully autoclavable, being able to withstand temperature of 121°C and pressure of 1ATM, and does not need to be pre-treated prior. Following the autoclave cycle, a 12 hour cooling and drying period ensures that the high performance of the MicroPette Plus is retained. It is recommended the piston and rubber seals be greased after every 10 cycles of autoclaving.

- Available as fixed volume and adjustable volume formats
- Streamlined shape design
- Comprehensive volume range from 0.1μL to 10mL
- Easy calibration and maintenance
- 8 and 12 channel pipette options
- Dispensing head rotates fro effortless pipetting convenience
- Individual piston and tip cone assembly
- Spring loaded tip cones for easy cleaning and maintenance
- Compound material-made tip cone secures high sealing performance



### 8 channel / 12 channel options



| 8-channel Adjustable Volume Pipettes  |           |             |                  |        |              |        |
|---------------------------------------|-----------|-------------|------------------|--------|--------------|--------|
| Volume Range                          | Increment | Test Volume | Systematic Error |        | Radomn Error |        |
| μL                                    | μL        | μL          | μL               | %      | μL           | %      |
| 0.5~10                                | 0.1       | 10          | ±1.5             | ±0.15  | ±1.5         | ±0.15  |
|                                       |           | 5           | ±2.5             | ±0.125 | ±2.5         | ±0.125 |
|                                       |           | 1           | ±4.0             | ±0.04  | ±4.0         | ±0.04  |
| 5~50                                  | 0.5       | 50          | ±1.0             | ±0.5   | ±0.5         | ±0.25  |
|                                       |           | 25          | ±1.5             | ±0.375 | ±1.0         | ±0.25  |
|                                       |           | 5           | ±3.0             | ±0.15  | ±2.0         | ±0.1   |
| 10~100                                | 1         | 100         | ±0.8             | ±0.8   | ±0.3         | ±0.3   |
|                                       |           | 50          | ±1.0             | ±0.5   | ±0.8         | ±0.4   |
|                                       |           | 10          | ±3.0             | ±0.3   | ±2.0         | ±0.2   |
| 50~300                                | 5         | 300         | ±0.7             | ±2.1   | ±0.25        | ±0.75  |
|                                       |           | 150         | ±1.0             | ±1.5   | ±0.5         | ±0.75  |
|                                       |           | 30          | ±1.5             | ±0.75  | ±0.8         | ±0.4   |
| 12-channel Adjustable Volume Pipettes |           |             |                  |        |              |        |
| Volume Range                          | Increment | Test Volume | Systematic Error |        | Radomn Error |        |
| μL                                    | μL        | μL          | μL               | %      | μL           | %      |
| 0.5~10                                | 0.1       | 10          | ±1.5             | ±0.15  | ±1.5         | ±0.15  |
|                                       |           | 5           | ±2.5             | ±0.125 | ±2.5         | ±0.125 |
|                                       |           | 1           | ±4.0             | ±0.04  | ±4.0         | ±0.04  |
| 5~50                                  | 0.5       | 50          | ±1.0             | ±0.5   | ±0.5         | ±0.25  |
|                                       |           | 25          | ±1.5             | ±0.375 | ±1.0         | ±0.25  |
|                                       |           | 5           | ±3.0             | ±0.15  | ±2.0         | ±0.1   |
| 10~100                                | 1         | 100         | ±0.8             | ±0.8   | ±0.3         | ±0.3   |
|                                       |           | 50          | ±1.0             | ±0.5   | ±0.8         | ±0.4   |
|                                       |           | 10          | ±3.0             | ±0.3   | ±2.0         | ±0.2   |
| 50~300                                | 5         | 300         | ±0.7             | ±2.1   | ±0.25        | ±0.75  |
|                                       |           | 150         | ±1.0             | ±1.5   | ±0.5         | ±0.75  |
|                                       |           | 30          | ±1.5             | ±0.75  | ±0.8         | ±0.4   |
| Single-channel Fixed Volume Pipettes  |           |             |                  |        |              |        |
| Volume Range                          | Increment | Test Volume | Systematic Error |        | Radomn Error |        |
| μL                                    | μL        | μL          | μL               | %      | μL           | %      |
| 5                                     | -         | 5           | ±1.3             | ±0.065 | ±1.2         | ±0.06  |
| 10                                    | -         | 10          | ±0.8             | ±0.08  | ±0.8         | ±0.08  |
| 20                                    | -         | 20          | ±0.6             | ±0.12  | ±0.5         | ±0.1   |
| 25                                    | -         | 25          | ±0.5             | ±0.125 | ±0.3         | ±0.075 |
| 50                                    | -         | 50          | ±0.5             | ±0.25  | ±0.3         | ±0.15  |
| 100                                   | -         | 100         | ±0.5             | ±0.5   | ±0.3         | ±0.3   |
| 200                                   | -         | 200         | ±0.4             | ±0.8   | ±0.2         | ±0.4   |
| 250                                   | -         | 250         | ±0.4             | ±1.0   | ±0.2         | ±0.5   |
| 500                                   | -         | 500         | ±0.3             | ±1.5   | ±0.2         | ±1.0   |
| 1000                                  | -         | 1000        | ±0.3             | ±3.0   | ±0.2         | ±2.0   |
| 2000                                  | -         | 2000        | ±0.3             | ±6.0   | ±0.15        | ±3.0   |
| 5000                                  | -         | 5000        | ±0.3             | ±15    | ±0.15        | ±7.5   |



## Pipette Stand

- Linear Pipette Stand  
Number of pipettes held: 6-8 pcs  
Size: 29.5\*14.5\*28cm

- Round Pipette Stand  
Number of pipettes held: 6 pcs  
Size: 16\*16\*32cm

