

SP13

Keyto SP13 is a high-performance, single-channel pipette. It is widely applicable to scenarios where customers need flexible pipetting operations.



Max. Aspiration/
Dispensing Speed

1500 μ L/s;



Brushless
Coreless Motor



Status Indicators

**LED Status Lights
(Red, Blue, Yellow,
Green, Purple)**



Pipetting Range

0.5~1000 μ L;

Liquid Level Detection

cLLD, pLLD;



9mm Thickness

**Design for individual Y-axis
& individual Z-axis**

Application Areas



Genomics



**Synthetic
Biology**



Drug Screening



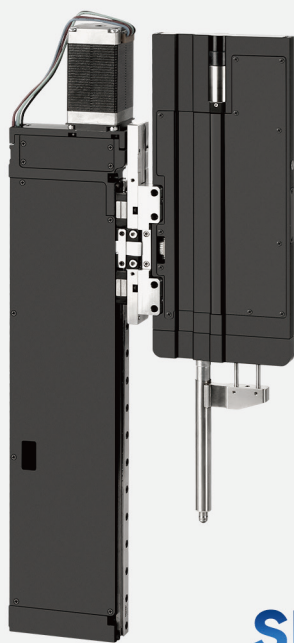
Biobank



**Molecular
Diagnostics**



Cell Culturing



SP13+HSZ

Powerful Functionality

- full-stroke independent Z-axis
- Maximum Z-axis speed: 400mm/s
- Z-axis stroke: 180mm
- Power Failure Retention

Plug-and-Play

- Preset detection modes: cLLD, pLLD, and combined cLLD+pLLD
- Preset reference parameters for aspiration/dispensing

Pipetting Performance Chart

| TIP specifications/uL | Dispensing volume/uL | Dispensing type | Accuracy (A) | CV |
|-----------------------|----------------------|------------------|--------------|-------|
| 10F | 0.5 | Single Dispense | 10.0% | 10.0% |
| 10F | 1 | Single Dispense | 5.0% | 4.0% |
| 50F | 2 | Single Dispense | 5.0% | 5.0% |
| 50F | 5 | Single Dispense | 5.0% | 2.0% |
| 50F | 10 | Single Dispense | 3.0% | 1.0% |
| 50F | 50 | Single Dispense | 2.0% | 0.75% |
| 200F | 10 | Single Dispense | 5.0% | 2.0% |
| 200F | 50 | Single Dispense | 2.0% | 0.75% |
| 200F | 200 | Single Dispense | 1.0% | 0.75% |
| 1000F | 100 | Single Dispense | 2.0% | 0.75% |
| 1000F | 1000 | Single Dispense | 1.0% | 0.75% |
| 1000F | 20 | Aliquot Dispense | 3.0% | 3.0% |
| 1000F | 50 | Aliquot Dispense | 3.0% | 2.0% |

1. Test reagent: Pure water;

2. Test environment: 21 ~ 25°C in a still air environment, Test method: Non-contact dispensing(suspended dispensing);

3. Use a new TIP for each pipetting operation, Single aspiration and single dispensing: For example, aspirate 10μL reagent with a new TIP, then fully dispense the 10μL in one action. Replace the TIP after each complete dispense, repeat for 10 measurement cycles to calculate accuracy and precision;

4. Single aspiration and aliquot dispensing: For example, aspirate 1000μL reagent with a single TIP, then perform 50 dispenses of 20μL each. Replace the TIP after complete ejection, discard the first and last dispenses (retain 48 valid data points) for accuracy and precision calculations.

