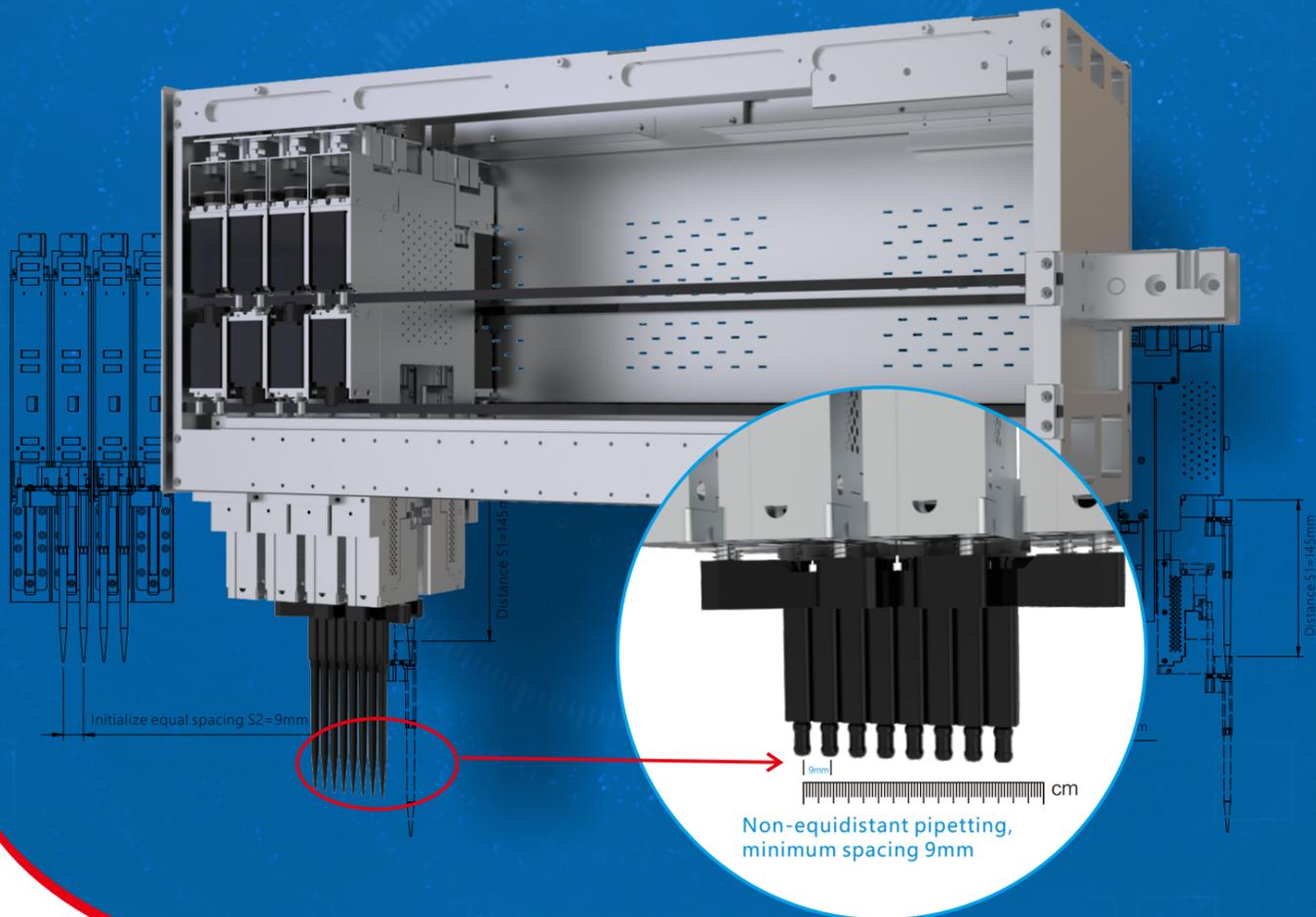


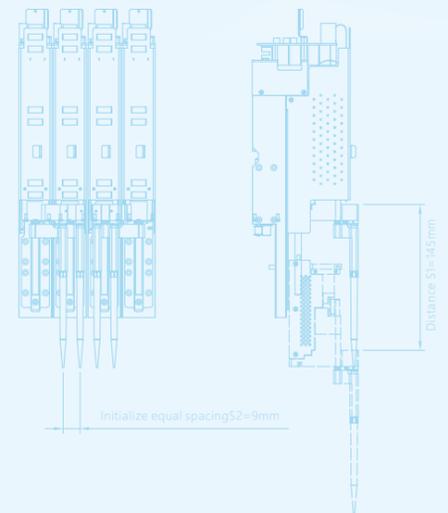
Liquid Handling Module



> Product introduction

OEM precise liquid handling module and rapid integration solutions

- Adopts the original motion control algorithm system to ensure the sampling accuracy of the whole pipetting process.
- With a built-in high-precision temperature sensor and the self-developed liquid volume compensation algorithm curve for the internal temperature change, to calibrate the volume of trace liquid during the pipetting process in real-time to ensure the pipetting accuracy.
- The single-rail cantilever mode is adopted, and the self-developed S acceleration and deceleration curve motion control algorithm can be adapted according to the target running stroke of the motor, so that the sample dosing arm runs more smoothly.
- Up to 8 pipetting tips can be loaded, and each pipetting channel has an independent YZ running track, which can realize non-equidistant pipetting, and the minimum distance between two adjacent channels is 9mm;
- Flexible selection of pipette tips, with a wide range of applications.
- Pipetting range: 1-1000ul, 10ul CV≤3%, 50ul CV≤1%.
- The software provides a ready-made SDK interface for third-party calls, including the exclusively developed liquid compensation curve, temperature compensation curve, etc. And it can ensure sampling accuracy and greatly shorten the development cycle of the prototype.



> Technical Parameter

Channels	1-8 pipetting channels are optional, and different pipetting channels can move the liquid independently.
Liquid level detection	Capacitance sensing and pressure sensing detection, clot detection, suction detection, tip detection, to achieve precise micro-pipetting
Pipetting range	1-1000ul, 10ul CV≤3%, 50ul CV≤1%;Non-equidistant pipetting and sample addition, adjustable spacing 9-270mm
Communication method	CAN
Baud rate	1MB
Operation noise	A new generation of motor motion control algorithm, no current noise, more sensitive and stable operation
Operating environment	Temperature: 10~35°C, Humidity: 15%~99% (Relative humidity), Altitude: 50-4000m;
Size(Length/Width/Height)	750mm*320mm*320mm
Weight	<25KG
Power	24VDC±10%, 500MA peak, Rated value 250MA
Consumables	Compatible with 10 μL, 50 μL, 200 μL, 1000 μL tips at the same time
Secondary development	The software provides a ready-made SDK interface for third-party calls, including the exclusively developed liquid compensation curve, temperature compensation curve, etc. And it can ensure sampling accuracy and greatly shorten the development cycle of the prototype.