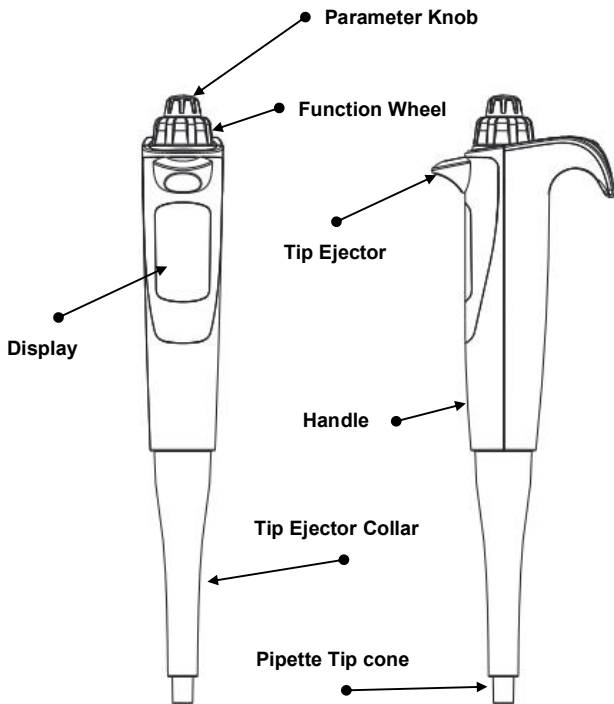
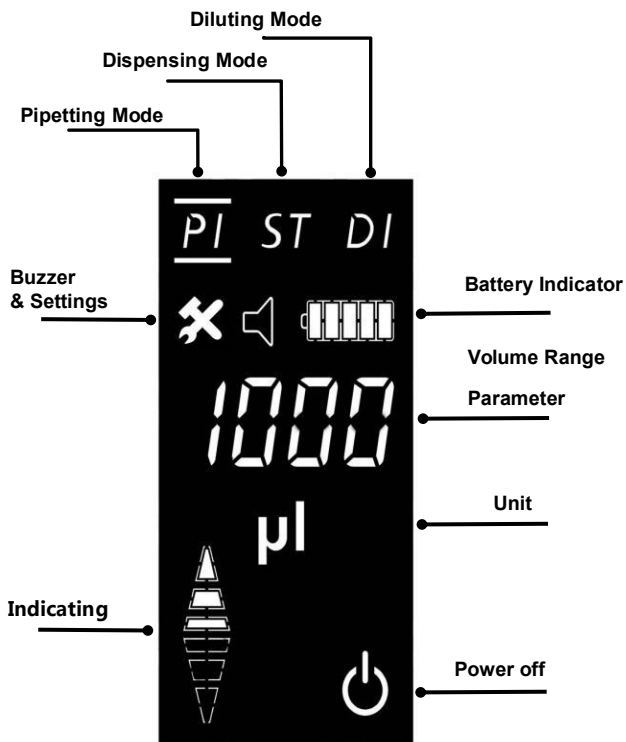


2. Parts Description



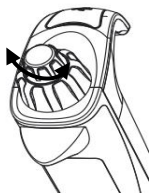
3. Display



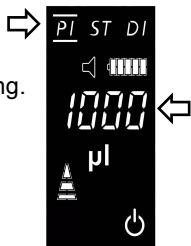
4.3 Pipetting (PI)

4.3.1 Volume Setting

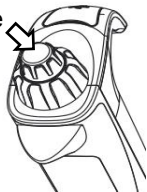
① Fast turn the **Parameter Knob**.



② 'PI' and volume parameter to be blinking.



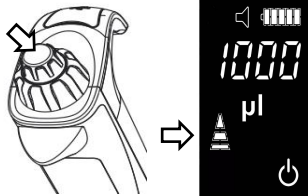
③ Turn the **Parameter Knob** anticlockwise to increase, turn clockwise to decrease.
Press **Parameter Knob** to confirm.



Note! Do volume range setup in Aspirating mode only.

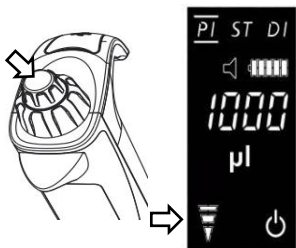
4.3.2 Aspiration

When upward arrow blinks, press **Parameter Knob** for Aspiration.



4.3.3 Dispensing

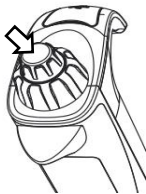
When downward arrow blinks, press **Parameter Knob** for dispensing.



4.3.4 Mixing

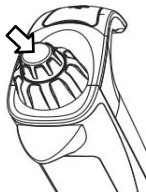
Press **Parameter Knob** until mixing activity begins.

The release of **Parameter Knob** at any time during the process of mixing will exit the mixing mode.



4.4.2 Dispensing

Pressing **Parameter Knob** to do liquid dispensing.



Pressing the **Parameter Knob** again after dispensing the final step liquid had been dispensing that use to drain the liquid which left in the Tip possible. the pipette will return to the aspiration conditions.

4.5 Diluting (DI)

4.5.1 Volume setting

① Left and right turn **Parameter Knob** to set the volume of target A.
pressing **Parameter Knob** to confirm.

② Left and right turn **Parameter Knob** to set the volume of target B.
pressing **Parameter Knob** to confirm.

4.5.2 Diluting

① Pressing **Parameter Knob** to aspirating target A.



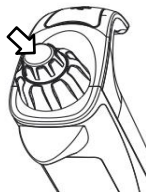
② Remove the Tips from the liquid and Pressing **Parameter Knob** to aspirating a bit of air.



③ Pressing **Parameter Knob** to aspirating target B.

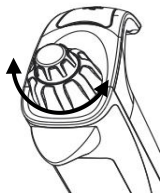


④ Pressing **Parameter Knob** to dispensing target A and B.

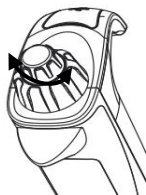


5.1 Adjustment of Aspiration / Dispensing Speed

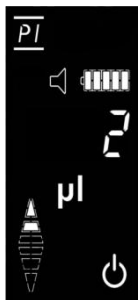
① Use **Function Wheel** to select aspiration or dispensing speed when corresponding signs and parameters start to blink.



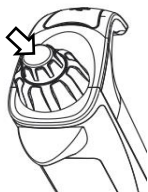
② Turn **Parameter Knob** right or left to select among three speeds(1,2,3).



e.g. Speed 2 is set in the right diagram.

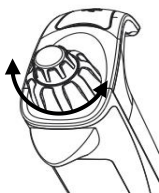


- ③ Press **Parameter Knob** to confirm.

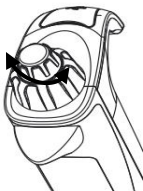


5.2 Buzzer Status

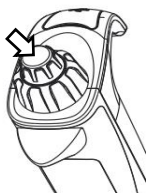
- ① Use **Function wheel** to select Buzzer when the corresponding sign starts to blink displaying current status as ON/OFF.



- ② Turn **Parameter Knob** to the right or left to select between ON and OFF.

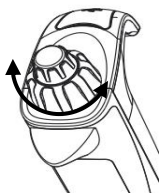


- ③ Press **Parameter Knob** to confirm.



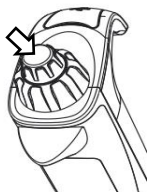
5.3 Power off

- ① Use **Function wheel** to select Power when the corresponding sign starts to blink.



- ② Press **Parameter Knob** to switch the pipette off.

gPette+ will self switch off in 15 minutes being unused.



6. Storage

- Recommend storing iPette+ electronic pipette on the stand in vertical position when not in use.
- Please every month to charging for iPette+ if being unused in long time , make sure there are 50% power in battery at least.
- During storage periods at constant temperature and humidity, the recommended temperature range is from 0-40°C and humidity no more than 80%.

7. Care and Maintenance

By cleaning your iPette+ before and after each use, tip connector in particular, its functionality and performance can be ensured.

Note! Check the performance of the pipette every three months. Performance test is recommended to be carried out after each in-house care and maintenance.

7.1 Cleaning the Outer Surface

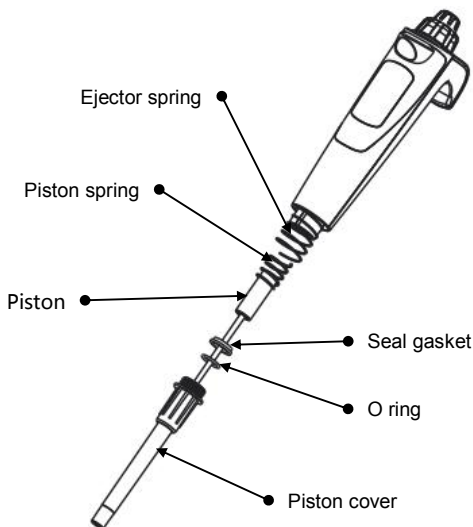
Spay the outer surface with a dedicated pipette detergent or 75% ethanol. Wipe with lint-free cloth.

Note! Please consult with your nearest distributor for the cleaning with other detergent or liquids.

ANY WARRANTY WILL, HOWEVER, BE DEEMED AS VOID IF THE FAULT IS FOUND TO HAVE BEEN CAUSED BY UNAUTHORIZED CLEANING.

7.2 Sterilizing the Inner Parts

The entire body of iPette+ electronic pipette cannot be autoclaved. The autoclavable parts include:



Note! The unidentified parts can never be autoclaved or disassembled prior to authorization.

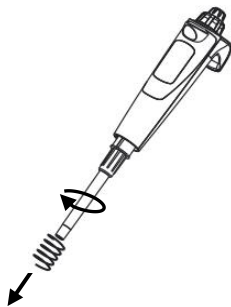
7.3 Disassembly Procedures

- ① Unscrew the tip ejector collar anticlockwise and remove it.

NOTE! THIS PART CANNOT BE AUTOCLAVED.

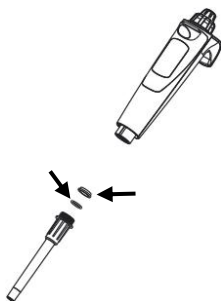


- ② Remove the ejector spring. Unscrew the piston cover anticlockwise and remove it.

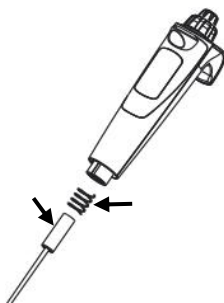


③ Separate the seal gasket and O ring from piston cover.

NOTE! MINOR PARTS FOR SAFE KEEPING PLEASE.



④ Separate the remaining piston from piston spring.



⑤ Clean the above-mentioned parts with 75% ethanol, or sterilize the parts at 121°C, 1 bar overpressure for 20 minutes.

⑥ Apply an appropriate layer of silicone grease to the O ring, seal gasket and piston. Reassembling.

Note!

① After autoclaving and reassembling, leave iPette+ to rest for 12 hours before reuse.

② Calibration is needed after each inner-part sterilization. For more information, please refer to section "Calibration and Performance Tests".

8. Calibration and Performance Tests

Calibration should take place at 20-25°C, kept constant within $\pm 0.5^\circ\text{C}$. A dedicated calibration software will write calibration values in your iPette+, after the distilled water has been repeatedly weighed at least five times.

Hardware needed:

- Electronic balance with readability of 0.01 mg
- Distilled water
- Pipette tip in compatible with the volume range of your iPette+
- X86 or X64 architecture PC pre-loaded with Windows (XP/Vista / 7/8/10 operating system)

Software needed:

- Dedicated calibration software of iPette+
(For more information, please contact with your nearest distributor)
- iPette+ drive program

Note! If your iPette+ cannot work properly after calibration, please contact your nearest distributor for assistance.

9. Troubleshooting Guide

Problem	Possible cause	Solution
Remaining droplets	Incompatible tip	Use original tip
	Plastic self-lubrication of the tip is not even	
Leakage or inadequate aspiration	Tip is loose	Attach the tip firmly
	Foreign objects between tip and connector	Clean the tip cone and replace the tip
	Pipette is contaminated	Clean and grease O ring, piston and clean tip cone
	Inadequate application of silicone grease to piston or O ring	Apply silicone grease
	O ring and piston is unlocked or broken	Replace O ring
	Inappropriate operation	Follow the instructions in the User Manual

Problem	Possible cause	Solution
Leakage or inadequate aspiration	Calibration needed or huge difference of density compared with water	Recalibrate according to the instructions in the User Manual
	Pipette is broken	Send the pipette for service
Inadequate aspiration due to jammed pipette	liquids leak into the tip connector and dry.	Clean and grease O ring and piston; clean tip cone
ejector is jammed or cannot work properly	Tip connector and ejector are contaminated	Clean tip connector and ejector

10. Warranty

iPette+ electronic pipettes are covered by one-year warranty against defects in workmanship and materials. Please contact us or your nearest distributor.

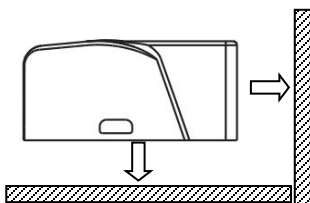
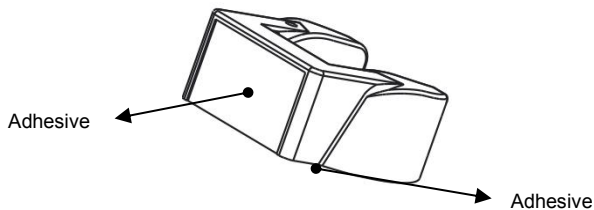
ANY WARRANTY WILL, HOWEVER, BE DEEMED AS VOID DUE TO NORMAL WEAR AND TEAR OR FOR OPERATIONS CONTRARY TO THE INSTRUCTIONS GIVEN IN THIS MANUAL.

Each and every iPette+ has been calibrated and tested in compliance with ISO8655-6 / DIN12650 (calibration card included in the contents of delivery package) when manufactured, ensuring safe and comfortable pipetting.

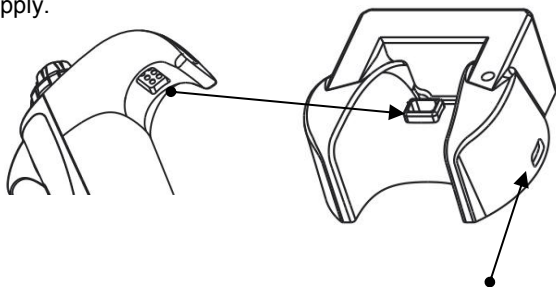
11. Accessory

11.1 Wall mount

Step 1 : There are two pieces of adhesive tape on the wall mount surface. Peel off the release paper of from the adhesive which one you want to use and paste the wall mount on the flat and clean surface where you want to set up the wall mount.



Step2 : Insert the iPette+ charging port into the wall mount connection. Connect the USB cable to a power supply.



USB connector

