

Pen-type Electronic Pipette pipetty (MSIC01-03)
Pen-type Electronic Pipette with wireless communication function pipetty Pro (MSIC04-01)



pipetty Series Instruction Manual

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1 Introduction

1.1 About the Instruction Manual

Read this instruction manual before using this product for the first time.
 It is recommended that you print this instruction manual and keep it near the product.
 This instruction manual corresponds to software version Pn/PP/PS-6. **.

1.2 Cautions on Using the Pipette

1.2.1 Pipette Main Unit

[WARNING]

- This product cannot be used in a potentially explosive environment. Do not use explosive substances.
- Do not use radioactive substances or liquid containing radioactive substances.
- Do not use a liquid such as a medical solution that directly enters the human body.
- Do not disassemble or modify this product.

[CAUTION]

- Although this product has excellent chemical resistance, do not use strong acidic or strong alkaline substances or liquids such as acetone and trichloroethylene, as they may cause damage to the main unit.
- This product is not waterproof. Please note that adhesion of water droplets including conductive liquid may cause malfunction.
- Be sure to thoroughly investigate applicable environmental laws and regulations, such as the RoHS Directive that regulates the use and inclusion of specific substances, when using the product so that it complies with such laws and regulations.

1.2.2 Battery

[WARNING]

- Use the battery specified by our company for this product.
- Do not disassemble or modify the battery.
- Do not use leaked or damaged batteries. Dispose of them in accordance with regulations.

[CAUTION]

- If the battery is used for the first time or if it has not been used for a long period of time, the performance of the battery cannot be fully exhibited by charging alone and the number of operations may be reduced, however, discharging the battery to indicator scale 1 as a guide and then charging it for a couple of times may solve the problem.
- If the battery is repeatedly charged before running out, a phenomenon called the “memory effect”, which drops the discharge voltage, occurs and the number of operations decreases. In this case, the problem may be solved by discharging the battery to indicator scale 1 as a guide and then charging it for a couple of times.
- The battery has a life cycle, and the number of operation times decreases as charging and discharging are repeated. If so, replace the battery with a new one.
- The standard operation times of the battery which reached the life cycle is about 60% of the case of using a new battery.
- Recommend the use of operation guaranteed battery for this device. (AAA Nickel Hydride Battery)

1.2.3 Operation

[WARNING]

- Do not dispense toward the human body. Some liquid can be harmful to the human body.
- If harmful substances adhere to the main unit, take appropriate detoxification measures before use.
- Do not eject the tip toward the human body.
- Remove the battery when the display is off, or when the mode selection display is displayed, or when START is flashing.

[CAUTION]

- Use a tip that meets the specified capacity.
- Do not turn the tip upwards or vibrate while the liquid is in the tip. This may cause the liquid to enter the unit and damage to the main unit.
- The tip must be changed after each dispensing. Repeated use may cause a decrease in accuracy.
- Use the tip ejector to remove the tip. If removed by hand, the nozzle will loosen, and the dispensing accuracy will decrease due to leakage.
- When dispensing, keep the liquid, pipette body, and tip all at the same temperature. If the liquid temperature differs between the pipette body and the tip during dispensing, accuracy may be reduced.
- The accuracy guarantee range differs for each model. When working with settings outside the guaranteed accuracy range, please note that the dispensing volume may not be accurate.

1.2.4 Wireless Communication (only models with wireless function: pipetty Pro (MSIC04-01)/pipetty Smart (MSIC12-01))

This product incorporates radio equipment that has been certified for construction type as a radio station for low-power data communication systems based on the Radio Law. EYSHCN: 001-A10745

[WARNING]

- Do not use this product near medical devices such as cardiac pacemakers and hearing aids. Electromagnetic interference may cause life-threatening danger.
- The Bluetooth module installed in this product has received technical conformity certification (certificate of construction type) as a radio station radio equipment for low-power data communication systems based on the Radio Law. Therefore, you do not need permission from a radio station to use this product, however, if you do the following, you may be punished by law.
 - Modify the installed Bluetooth module.
 - Peeling off the certification label attached to the installed Bluetooth module.

[CAUTION]

- The frequency band of the Bluetooth module installed in this product is compatible with local radio stations for identifying mobile units and specific low-power radio stations used in such as medical equipment, microwave ovens, industrial/scientific instruments, and production lines in factories. Since they are in the same frequency band, communication interference due to radio wave interference may occur.
- If wireless communication is performed with the battery indicator scale set is less than 2, a communication failure may occur. In this case, charge the battery before operating.
- In an environment with a device that generates electromagnetic noise around, regardless of the remaining battery level, communication disturbance may occur due to the effect of electromagnetic noise.

2 Product Description

2.1 Appearance



- 1 PUSH button Power on, aspirate and dispense operations. Same function as the BACK button.
- 2 UP or DOWN button Switch between number and mode.
To turn off the power at an arbitrary timing, press and hold the DOWN button
- 3 MODE/ENTER button Set the number and mode.
- 4 LCD The set number and mode are displayed.
- 5 BACK button Power on, aspirate and dispense operations. Same function as the PUSH button.
- 6 Nozzle Attach the tip.
- 7 Tip ejector Slide to eject a tip.
- 8 Battery cover Remove it to replace the battery.

2.2 Display

Modes

- **M** (Multi) Mode Equal volume continuous dispensing
- **S** (Single) Mode (Mixing) Quantitative dispensing, mixing, blowout
- **SM** (Super Multi) Mode Continuous dispensing of different volumes *1
- **MC** (Multi-calibration) Mode M mode calibration
- **SC** (Single Calibration) Mode S mode calibration
- **SEL** (Select) Mode Speed/sound settings

*1 This mode is dedicated to the application of pipetty with wireless function. It cannot be used with the pipetty (MSIC01-03).

2.3 Package Contents

(1) pipetty main unit	1
(2) Quick start guide	1
(3) Inspection report	1
(4) Warranty	1

2.4 Product Features

The pen-type electronic pipette pipetty series, equipped with Icomes Lab micro-actuator (driving unit), was developed as *the world's smallest and lightest electronic pipette that can be used like holding a pen. Adopting the air displacement method, in addition to quantitative dispensing (forward pipetting) and equal volume continuous dispensing, mixing (pipetting) is also available. Moreover, continuous dispensing of different volumes is possible for models with a wireless communication function. Not only there is an automatic volume correction function for hand warming to stabilize dispensing accuracy, but also it is possible to operate even with the conventional grip style so that you can select the gripping method, which can reduce the workload.

* As of February 2020, based on our research

2.5 Parts Material

The main components used in the pipetty series are as follows.

Item	Materials
Case	ABS
Tip ejector	ABS
BACK button	ABS
Battery cover	ABS
PUSH button, UP button, DOWN button, MODE/ENTER button	PET
Nozzle	POM

3 Preparation

3.1 Charging Battery

- The battery is not fully charged at the time of purchase. Use it after charging with the dedicated charger.
- Charge the battery after using it for a certain period of time. Frequent charging may reduce the number of operations or cause unstable communication due to the memory effect of the battery.
- pipetty : The standard time to charge the battery is when it begins to show "2" to "1" on the scale.
pipetty Pro : The standard time to charge the battery is when it begins to show "3" to "2" on the scale to stabilize the wireless communication.

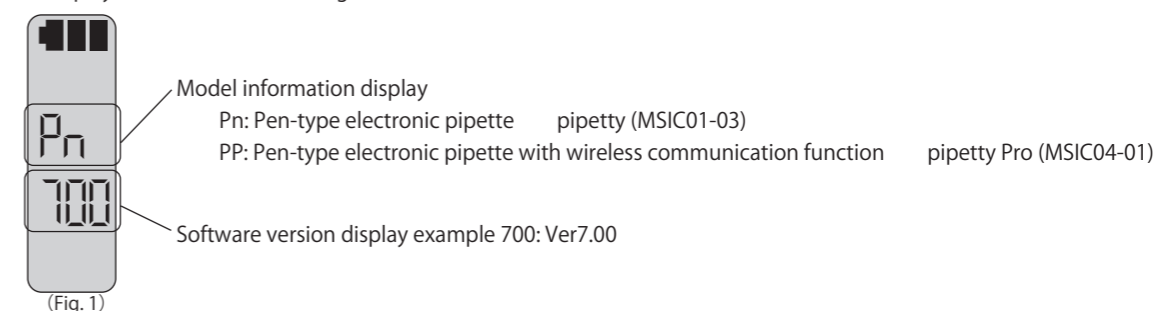
3.2 Installing and Removing the Battery

Remove the battery cover and attach the battery. Remove the battery when the display is off, the mode selection display, or when START is flashing.

*Use our designated battery and do not use other dry batteries.

3.3 Checking Model Information

After the battery is installed the model information is displayed on the upper line of the LCD, and the software version is displayed on the lower line. (Fig. 1)



3.4 Power On /Power Off

○Power ON

When the screen display is off, pressing the PUSH button or the BACK button turns on the power and performs the initialization operation automatically.

○Power OFF

The power is automatically turned off when the mode select screen or the indicate START (*1) on the screen is left on for 1 minute.

To turn off the power at an arbitrary timing, press and hold the DOWN button when the mode select screen or the indicate START (*1) on the screen.

*1 When the START indicate while the Mixing or Blowout state, the power is not turned off because the operation is not yet completed.

3.5 Attach and Release the Tip

Attach the tip to the nozzle. Refer to "8. Product Specifications" for compatible tips.

Use a tip ejector to remove the tip. If removed by hand, the nozzle will loosen, and dispensing accuracy will decrease.

4 How to Operate

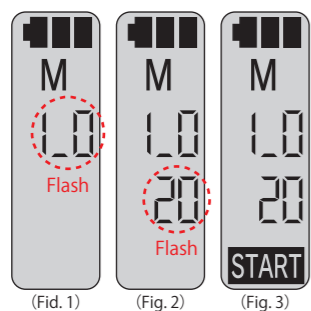
4.1 Selecting the Mode



The display flashes M. Use the UP or DOWN button to switch the mode and use the MODE/ENTER button to determine the mode.

4.2 M (Multi) Mode

In the M (Multi) Mode, the equal volume continuous dispensing is performed. In this mode, the aspirated volume is dispensed at the set volume for the set times.

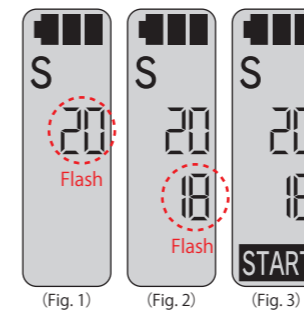


1. Use the UP or DOWN button to change the dispensing volume. (Fig. 1)
2. When the desired volume is reached, press the MODE/ENTER button to confirm.
3. Use the UP or DOWN button to change the dispensing times. (Fig. 2)
4. When the desired times is reached, press the MODE/ENTER button to confirm.
5. The setting is completed when START flashes and dispensing preparation is completed. (Fig. 3)
6. Aspirate by pressing the PUSH or BACK button.
After aspirating, press the PUSH or BACK button to discharge the set times. When the set times of dispense is completed, the dispensing volume and the dispensing times will flash, then press the PUSH or BACK button twice. After discharging the remaining liquid, it automatically operates, START flashes, and returns to the state when dispensing preparation is completed.

- All dispense will be performed halfway if the MODE/ENTER button is pressed before the dispensing times reaches "0". After all dispense is performed halfway, press the PUSH or BACK button as the dispensing volume and the dispensing times will flash. START flashes and returns to the state when dispensing preparation is completed.
- You can change the dispensing volume and dispensing times by pressing and holding the UP button when START is flashing.
- To return to the mode selection display, press and hold the MODE/ENTER button when START is flashing.
- The automatic correction function for hand warming may change the dispensing times or limit the times.
- If an error (Err004) is displayed when setting the dispensing volume, it indicates that the pipette unit has exceeded the normal operating temperature range. Suspend the work and place the pipette unit in a cool place for a certain period of time or reduce the dispensing volume and set.
- It may take several seconds for the dispensing times to be displayed due to the calculation of the number of dispenses.

4.3 S (Single) Mode (Mixing)

S (Single) Mode performs quantitative dispensing. This mode dispenses the aspirated volume at once.



1. Use the UP or DOWN button to change the dispensing volume. (Fig. 1)
2. When the desired volume is reached, press the MODE/ENTER button to confirm.
3. Use the UP or DOWN button to change the mixing volume. (Fig. 2)
4. When the desired volume is reached, press the MODE/ENTER button to confirm.
5. The setting is completed when START flashes and dispensing preparation is completed. (Fig. 3)
6. Aspirate by pressing the PUSH or BACK button.
7. After aspirating, dispense by pressing the PUSH or BACK button.
8. After dispensing, it operates automatically, START flashes, and returns to the state when dispensing preparation is completed.
*Be careful not to aspirate the dispensed liquid since the suction operation is performed automatically after discharging.

- You can switch the dispensing volume by pressing and holding either the UP button when the START flashes.
- Press and hold the MODE/ENTER button when START flashes to return to the mode selection display.
- If an error (Err004) is displayed during aspirating, it indicates that the pipette unit has exceeded the normal operating temperature range. Suspend the work and place the pipette unit in a cool place for a certain period of time or reduce the dispensing volume and set.

Mixing repeats the aspirating and dispensing operation.



1. Pressing the UP button while START is flashing, and it switches to the Mixing Mode. (Fig. 4)
2. To perform mixing, press the PUSH or BACK button.
3. To end mixing, press the PUSH or BACK button again during mixing.

- After mixing is completed, it automatically returns to the START flashing.
- After switching the mode by pressing the UP button, press the DOWN button to return to the START flashing.
- If an error (Err004) is displayed during aspirating, it indicates that the pipette unit has exceeded the normal operating temperature range. Suspend the work and place the pipette unit in a cool place for a certain period of time or reduce the mixing volume and set.

Blowout is an operation to efficiently expel the liquid adhering to the inner wall of the tip.



【Blowout】

1. In the mode select screen, press the MODE/ENTER button and the PUSH button simultaneously to switch between ON and OFF. (Fig. 5)
 2. The S mode screen changes to "bo (Blowout)" after aspirating and dispensing the set dispensing volume. (Fig. 6)
 3. Press the PUSH button or the BACK button to perform Blowout and exit.
- After Blowout is complete, the display automatically returns to START.
 - When Mixing is performed with Blowout ON, the indication automatically switches to "bo (Blowout)" after Mixing is finished. (Fig. 6)

【Additional Blowout】

If dispense out the remaining liquid in the tip, additional Blowout can be performed by the following operation regard less of the Blowout ON/OFF setting.

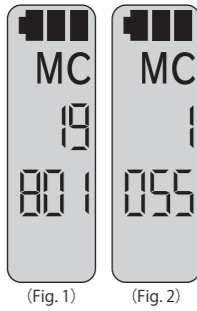
1. In S mode, after completion of dispensing, press the DOWN button to switch to additional Blowout when the indicate START. (Fig. 6)
2. Additional Blowout is performed by pressing the PUSH button or the BACK button.
For more additional Blowout, press the PUSH button or the BACK button to repeatedly perform an additional Blowout.
3. Press UP button to end additional Blowout.

- After the additional Blowout is completed, the display automatically returns to the START.

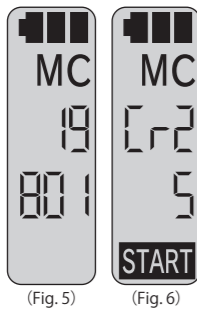
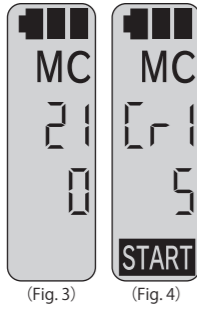
4.4 MC (M-Mode Calibration) Mode

MC (M-Mode Calibration) Mode is for calibrating the dispensing volume in M (Multi) mode and SM (Super Multi) mode. Calibration is performed at the time of shipment.

- When selecting the MC (M-Mode Calibration) Mode, press and hold the MODE/ENTER button.
- To perform calibration, prepare an electronic balance that can measure to the third decimal place.
- If you select a wrong mode and wish to cancel it, press the MODE/ENTER button three times and press and hold the MODE/ENTER button while START is flashing to return to the mode selection display.



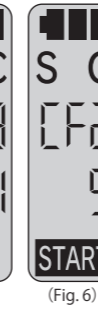
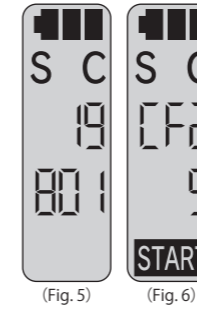
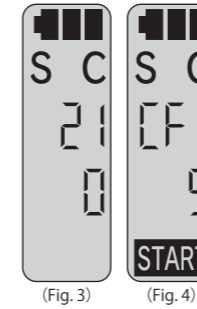
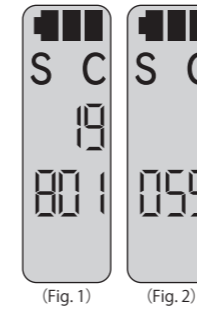
1. The previous calibration set volume on the maximum volume side is displayed. (Fig. 1 Example: 19.801 μ l)
2. Press the MODE/ENTER button to display the previous calibration set volume for the minimum volume. (Fig. 2)
3. Press the MODE/ENTER button to display the temperature at the calibration. (Fig. 3)
*The temperature for calibration is automatically measured and input.
4. By pressing the MODE/ENTER button, it switches to the calibration setting for the maximum volume, the dispensing volume is displayed as "Cr1", the dispensing times are displayed as "5". Then START flashes, and preparation for dispensing is completed. (Fig. 4)
5. Aspirate by pressing the PUSH or BACK button.
6. After aspirating, dispense by pressing the PUSH or BACK button.
7. After dispensing, press the PUSH or BACK button to discharge the remaining liquid.
8. After dispensing, START flashes, the dispensing times decrease by one, and returns to the state when dispensing preparation is completed automatically.
*Be careful not to aspirate the dispensed liquid since the suction operation is performed automatically after discharging.
9. Repeating steps 4 to 8 five times will switch to the input display. Switch the display volume with the UP or DOWN button to match the average volume of the dispensing volume. (Fig. 5)
10. When the desired volume is reached, press the MODE/ENTER button and enter the calibration volume for the maximum volume.
11. It switches to the calibration setting on the minimum volume side, the dispensing volume is displayed as "Cr2" and the dispensing times are displayed as "5". START flashes and the preparation for dispensing is completed. (Fig. 6)
12. Thereafter, repeat steps 5 to 9 to set the calibration volume on the minimum volume side.
13. Press the MODE/ENTER button to input the calibration on the minimum volume side and return to the mode selection display.



4.5 SC (S-Mode Calibration) Mode

SC (S-Mode Calibration) Mode is a mode for calibrating the dispensing volume in S (Single) Mode. Calibration is performed at the time of shipment.

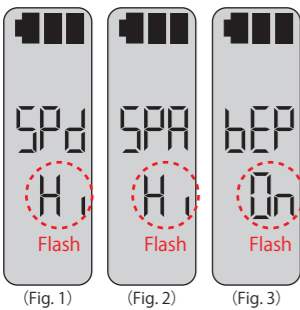
- When selecting the SC (S-Mode Calibration) Mode, press and hold the MODE/ENTER button.
- To perform calibration, prepare an electronic balance that can measure to the third decimal place.
- If you select a wrong mode and wish to cancel it, press the MODE/ENTER button three times and press and hold the MODE/ENTER button while START is flashing to return to the mode selection display.



1. The previous calibration set volume on the maximum volume side is displayed. (Fig. 1 Example: 19.801 μ l)
2. Press the MODE/ENTER button to display the previous calibration set volume for the minimum volume. (Fig. 2)
3. Press the MODE/ENTER button to display the temperature at the calibration. (Fig. 3)
*The temperature for calibration is automatically measured and input.
4. By pressing the MODE/ENTER button, it switches to the calibration setting for the maximum volume, the dispensing volume is displayed as "CF1", the dispensing times is displayed as "5". Then START flashes, and preparation for dispensing is completed. (Fig. 4)
5. Aspirate by pressing the PUSH or BACK button.
6. After aspirating, dispense by pressing the PUSH or BACK button.
7. After dispensing, START flashes, the dispensing times decrease by one, and returns to the state when dispensing preparation is completed automatically.
*Be careful not to aspirate the dispensed liquid since the suction operation is performed automatically after discharging.
8. Repeating steps 4 to 7 five times will switch to the input display. Switch the display volume with the UP or DOWN button to match the average volume of the dispensing volume. (Fig. 5)
9. When the desired volume is reached, press the MODE/ENTER button and enter the calibration volume for the maximum volume.
10. It switches to the calibration setting on the minimum volume side, the dispensing volume is displayed as "CF2" and the dispensing times is displayed as "5". START flashes and the preparation for dispensing is completed. (Fig. 6)
11. Thereafter, repeat steps 5 to 8 to set the calibration volume on the minimum volume side.
12. Press the MODE/ENTER button to input the calibration on the minimum volume side and return to the mode selection display.

4.6 SEL (Select) Mode

This mode changes the settings for dispensing/aspirating speed and buzzer.



1. The dispensing speed setting display appears, "SPd" flashes, and the set speed flashes. "Hi" at the initial setting. (Fig. 1)
2. Press the UP or DOWN button to switch and press the MODE/ENTER button to confirm.
3. The aspirating speed setting display appears, "SPA" flashes, and the set speed flashes. "Hi" at the initial setting. (Fig. 2)
4. Press the UP or DOWN button to switch and press the MODE/ENTER button to confirm.
5. The buzzer setting display appears, "bEP" flashes, and the setting status flashes. "Hi" at the initial setting. (Fig. 3)
6. Press the UP or DOWN button to switch and press the MODE/ENTER button to confirm, then it returns to the mode selection display.

4.7 SM (Super Multi) Mode

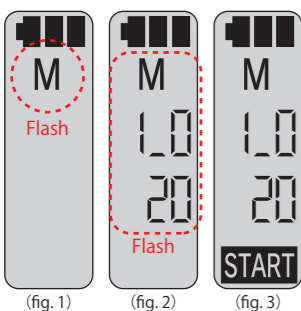
(only models with wireless function. pipetty Pro (MSIC04-01))

The SM (Super Multi) Mode performs continuous dispensing of different volumes and dispenses the aspirating volume according to the set dispensing volume.

- This is an application-only mode and cannot be operated without wireless communication.
- This mode cannot be used with pipetty (MSIC01-02).
- See the application manual for the operation method.

4.8 Memory function

The past dispensed history can be selected in S mode and M mode.



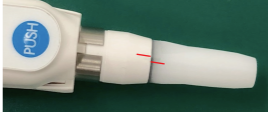

1. The past dispensed history is displayed by press PUSH button or BACK button while S or M is blinking. (Fig. 1)
 2. Press MODE/ENTER to decide the dispensing volume from the dispensing history. (fig. 2)
 3. Setting is complete and ready for dispensing when indicate START. (Fig. 3)
- The dispensed history can be recalled up to 6 times in the past.
 - The speed of aspiration and dispensing is not recorded.

5 Maintenance

If the pipette case gets dirty, wipe it off with a cloth impregnated with 70 vol% ethanol, containing isopropanol as an additive.
Please note that using a chemical solution other than those specified may result in damage to the main unit.

6 Troubleshooting

Contact your dealer or our customer service if the problem cannot be solved by the following method or other abnormalities that occur. We will analyze and repair as necessary.

Problem	Possible reason	Solution
Err002 is displayed	Motor operation error	Press the PUSH or BACK button
	Insufficient battery power	Replace with a charged battery
	Battery degradation	Replace with a new battery that has been charged
Err004 is displayed	The pipette unit has exceeded the normal operating temperature range.	uspend the work and place the pipette unit in a cool place.
Liquid leak from tip/ incorrect dispensing volume	Loose nozzle 	Retighten the nozzle 
	Tip is not installed correctly.	<ul style="list-style-type: none"> • Check if the tip is applicable. • Reattach the tip.
	There is residual liquid in the tip in S (Single) mode.	<ul style="list-style-type: none"> • Discharge all the remaining liquid in the tip. • Replace the tip.
	Tip is not in contact with liquid at the time of dispensing in M (Multi) mode or SM (Super Multi) mode.	Dispense with the tip in contact with the liquid.
	ispensing with settings outside the guaranteed accuracy range.	Dispense with settings within the guaranteed accuracy range.
	The temperature of the pipette unit, liquid, and tip differ greatly.	Leave the pipette unit, liquid, and tip in the same environment and work at a constant temperature.
	Using a liquid with different physical properties such as density from water.	Re-calibrate.
	Battery has reached a life cycle.	Replace with a new battery. Refer to 8. Product Specifications: Battery
Abnormal noise and malfunction	Using in an environment outside the specification range.	Use in an environment between 10° C and 30° C.
Power does not turn on	Battery mounting direction is reversed.	Install the battery correctly.

7 Storage

Remove the battery and store it if the product will not be used for a long time.
If the product is stored with the battery attached, it may be over-discharged, and the battery may not be able to exhibit its performance.

8 Product Specifications

Product name	Pen-type electronic pipette pipetty (MSIC01-03) Pen-type electronic pipette with wireless communication function pipetty Pro (MSIC04-01)				
	0.1–20 μl	1–250 μl	5–1000 μl		
Dispensing range	0.1–20 μl	1–250 μl	5–1000 μl		
Accuracy guarantee range	2–20 μl	20–250 μl	100–1000 μl		
Reproducibility () indicates continuous dispensing	20 μl ≤ 0.4% 2 μl ≤ 2.0% (2 μl ≤ 3.5%)	250 μl ≤ 0.15% 20 μl ≤ 0.8% (20 μl ≤ 2.0%)	1000 μl ≤ 0.15% 100 μl ≤ 0.5% (100 μl ≤ 1.5%)		
Accuracy () indicates continuous dispensing	20 μl ± 1.0% 2 μl ± 3.5% (2 μl ± 5.0%)	250 μl ± 0.5% 20 μl ± 2.5% (20 μl ± 3.0%)	1000 μl ± 0.5% 100 μl ± 1.5% (100 μl ± 2.0%)		
Applicable tip	WATSON	10 μl pipette tip (207)	200 μl pipette tip (703) 300 μl pipette tip (505)	1000 μl pipette tip (806) 1200 pipette tip (706)	
	GILSON	–	DL300 20–300 μl	DL1000 100–1000 μl	
	eppendorf	epT.I.P.S 0.5–20 μl	epT.I.P.S.LoRetention 2–200 μl	epT.I.P.S.LoRetention 50–1000 μl	
	Greiner bio-one	pipette tip 0.5–20 μl	pipette tip 300 μl	pipette tip 1250 μl	
	Thermo Fisher Scientific	★ART micro point tip 0.1–20 μl (model number: 3512-05-HR)	ART micro point tip 200 μl	ART micro point tip 1000 μl	
		–	★FINNTIP250Universal 0.5–250 μl (model number: 9400250)	★FINNTIP 100–1000 μl (model number: 9401030)	
RAININ	–	UNV RCC-250 2–250 μl	UNV RCC-1000 100–1000 μl		
External dimensions	20×54×185	20×54×181	20×54×181		
Product weight	Approx. 75g including rechargeable battery				
Operating environment	10°C to 30°C 30 to 60% RH				
Driving system	Micro actuator φ8				
Speed setting	5 steps each for aspiration and dispensing				
Buzzer setting	ON/OFF switchable				
Power	Recommended battery: AAA Ni-MH rechargeable battery (1.2Vdc)				
Wireless communication	Bluetooth5.0 (pipetty Smart (MSIC12-01)/pipetty Pro (only MSIC04-01))				

★ Recommended tip.
*Specifications are subject to change without notice.

9 Warranty policy

- The repair will be free of charge if the unit breaks down within the warranty period under the usage conditions according to the "Cautions on Using the Pipette" in the instruction manual. If any problems occur, contact your distributor.
- In accordance with Article 25 of the Ministry of Health, Labor and Welfare Ordinance No.169, we request the issuance of a safety confirmation letter for the purpose of ensuring the safety of technicians and related persons in contact with the target equipment when requesting repair including free repair. Hand over the product, safety confirmation, and warranty card to the retailer from whom you purchased the product and let us know the location of the failure.
- Please contact our customer service or distributor in your country for repair requests in case of relocation.
- Repairs will be charged in principle even within the warranty period for the following cases.
 - Failure or damage due to incorrect use, improper repair or modification.
 - Failure or damage due to transportation including dropping after purchase.
 - Failure or damage due to fire, earthquake, flood, lightning, or other natural disasters.
 - Failure or damage caused when loading on vehicles, ships, etc.
 - Without warranty card submission.
 - When the date of purchase, customer name, retailer name is not entered in the warranty, or the letters are rewritten.
 - In case of malfunction due to the consumption of parts.
- International warranty varies by each country. Please contact the distributor which you have purchased the product.
- The warranty will not be reissued. Please keep it nearby.

*The above warranty rules promise free repair under the conditions and conditions specified.

*The above warranty rules do not limit your legal rights.

*If you are uncertain about the period of maintenance and repair parts after the warranty period has expired, please contact our customer service or your retailer.

10 Disposal

This device cannot be recycled as unsorted municipal waste in accordance with the European Directive WEEE (2012/19/EU) on the disposal and reduction of dangerous goods in electrical and electronic equipment. Dispose of this device separately according to local recycling regulations.
Battery should be disposed of in accordance with local regulations and should not be disposed of with household waste.



Customer support and inquiries for pipette products:



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