



**More efficient,
More convenient,
More accurate**



1

**Small/Light/Pen-type Grip
(Patented)**

2

**High accurate multiple
dispensing**

3

**Automatical dispensing
volume compensation**



**WHAT'S
NEW**

**Continuous operation
frequency is 1.5 times
higher than
conventional models**

Blowout function

Memory function

Specification

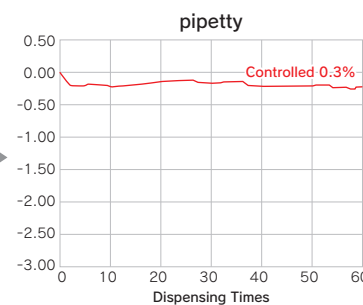
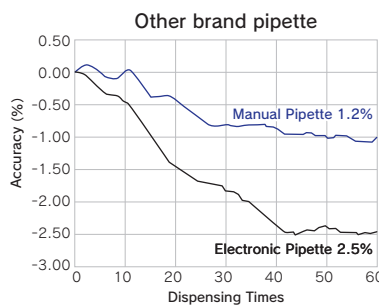
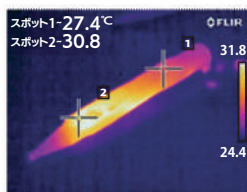
Product No.	MSIC01-03-20	MSIC01-03-250	MSIC01-03-1000
Range of dispensing	0.1-20μL	1-250μL	5-1000μL
Accuracy assurance range	2-20μL	20-250μL	100-1000μL
Single Dispensing	Repeatability (C.V)	20μL ≤ 0.4% 2μL ≤ 2.0%	250μL ≤ 0.15% 20μL ≤ 0.8% 1000μL ≤ 0.15% 100μL ≤ 0.5%
	Accuracy	20μL ± 1.0% 2μL ± 3.5%	250μL ± 0.5% 20μL ± 2.5% 1000μL ± 0.5% 100μL ± 1.5%
Multiple Dispensing	Repeatability (C.V)	2μL ≤ 3.5%	20μL ≤ 2.0% 100μL ≤ 1.5%
	Accuracy	2μL ± 5.0%	20μL ± 3.0% 100μL ± 2.0%
Outside dimension (mm)	20 × 54 × 185	20 × 54 × 181	20 × 54 × 181
Weight	Approximately 75g (including battery)		
Power	AAA battery (Ni-MH/Rechargeable)		

● **Attachable tip**

WATSON, GILSON, Eppendorf, Greiner Bio-One, Thermo Fisher Scientific,
RAININ, Compatible with other brand general tips
※ Recommend tips : Thermo Fisher Scientific (ART Tips, Finn Tips)

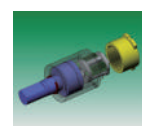
Feature 1 High accurate dispensing against “Hand Warming”!

Both of manual and electronic pipettes have the problem of “Hand Warming”, that effect to dispensing accuracy, due to hand heat is transmitted inside of syringe. As a result of measuring how much hand heat effects to the accuracy, the temperature outside of pipette rose 5.8 °C in about 20 minutes, and the dispensing accuracy changed 1.8%. “pipetty” have installed thermal sensor and is the only pipette in the world that automatically compensate the dispensing volume according to the temperature.

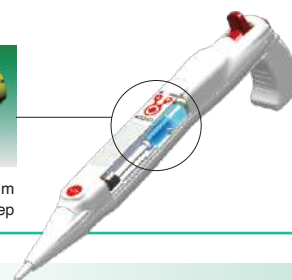


Feature 2 High accurate dispensing

pipetty is powered by our micro actuator of paradox gear mechanism. The high resolution enables the pipetty to control fine liquid control, and high precision dispensing is always possible regardless of the researcher's technique.

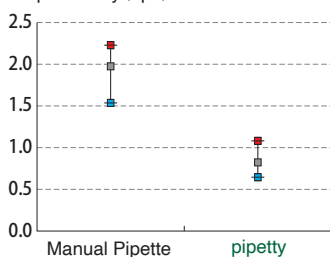


Dimension: $\Phi 8 \times 188$ mm
Resolution: 0.0031mm/Step

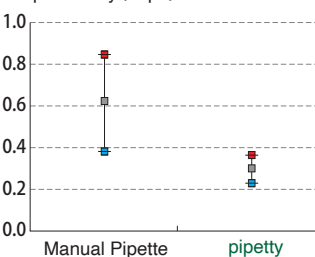


Manual Pipette vs pipetty

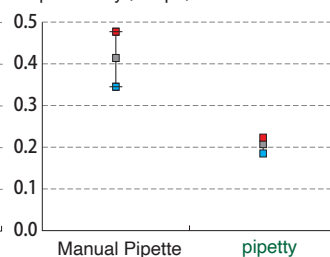
Repeatability (2 μ L)



Repeatability (20 μ L)



Repeatability (100 μ L)



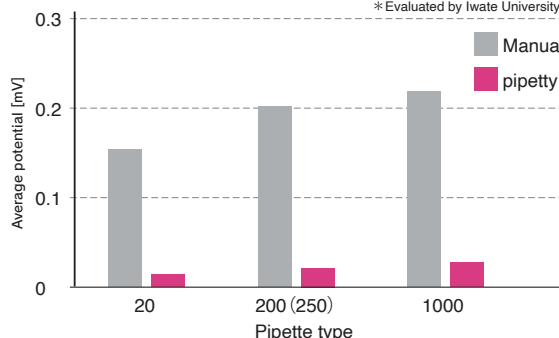
Feature 3 Reduces the burden of long-time dispensing work

Comparison of workload between pipetty and manual pipette

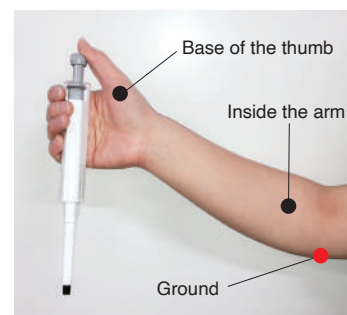
Manual pipettes are overloaded with longer piston strokes as the dispensing volume increases. On the other hand, the data showed that the pipetty requires only simple push of button at any volume, and the load is small. In addition, because aspiration and dispensing can be performed at a constant speed, contamination during aspiration and foaming during dispensing can be suppressed.

Comparison of manual and electronic pipette workloads

* Evaluated by Iwate University



EMG sensor measurement position



Product Customization This product can be customized to meet your needs. Please feel free to contact us.

[Manufacturer]



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