

Hybrid Pipette

BE ORIGINATIVE
NICHIRYO

Nichipette HB

Nichiryo Hybrid Pipette Debut !

Please visit our web site.

<http://www.nichiryo.co.jp>

*Nichipet HB is next generation of pipetting tool.
This pipetting tool is usable in either of a manual operation mode or a motorized operation mode.*

As well known, pipettes are roughly divided into two types according to their operating method ; hand-operated (manual/mechanical) pipettes and motor drive (electric hand held) pipettes.

The manual (mechanical) pipette : -

- 1) Good for delicate operation of liquid handling.
- 2) Require some skill to perform a stable pipetting operation.
- 3) Require much physical strength to treat a large number of specimens.

The motorized pipette : -

- 1) Many kind of liquid handling modes and useful functions are installed.
- 2) Difficult to control the pipetting delicately.
- 3) Can not continuously be used for a long period of time because of the limited battery capacity.

Both pipette have the above-mentioned characteristics, and this Hybrid Pipet Nichipet HB is launched by considering those features and benefits. It is possible to perform a stable pipetting operation and treat a large number of specimens in the motorized mode. Also if you select the mechanical (manual) operation mode, it is possible to control a pipetting operation delicately.

Now NICHIRYO delivers the Harmonization of two pipetting technologies to you.



Specification

Volume range	20-200ul, 100-1000ul
Filter	Only 100-1000ul model
Tip ejector	Manual
Design	Right / Left handed
Battery	Lithium-Ion 3.6V 800mAh
Battery endurance	Up to 2,000 strokes (full charge)
Motor	2 phase stepping motor

Price

Price	
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Function

Automatic power-off	After 15 minutes no action
Parameter memory	As for setting value of each mode, the last time value is stored automatically.
Battery alert	Battery charge state is displayed by 3 phases marking.
Counter	Cycle counting number is displayed on the screen (depend on Mode)
Automatic blow-out	Motor returned to the starting point automatically before power off.
Motor speed control	5 steps (Mode 10)
Date & Time setting	Input year, month, day and time (24 hours) (Mode 11)
Beep sound ON/OFF	Can be select beep-sound ON and OFF (Mode 12)
Electric charge	AC adapter (Possible to operate unit with charging) Pipet Stand (Option)

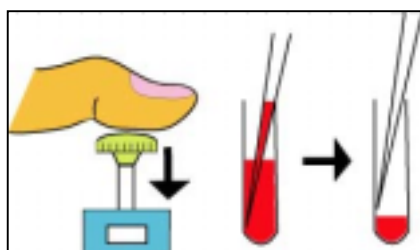
Accuracy & Imprecision

	00-NHB-200		00-NHB-1000	
Accuracy (%)	20ul	± 3.0%	100ul	± 3.0%
	100ul	± 1.2%	500ul	± 1.2%
	200ul	± 0.8%	1000ul	± 0.8%
Imprecision (%)	20ul	< 1.0%	100ul	< 1.0%
	100ul	< 0.3%	500ul	< 0.3%
	200ul	< 0.2%	1000ul	< 0.2%

Operation modes

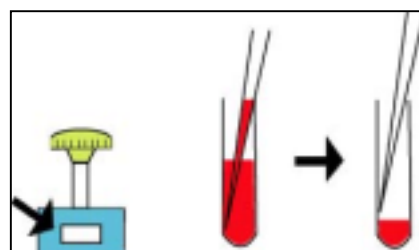
	Name	Setting	Operation	Description
Mode 1	Mechanical Pipetting MANUAL Mode	Dispense volume	Manual	In case of manual operation, set the dispense volume.
Mode 2	Pipetting PIPET Mode	Dispense volume	Motorized	Pick up the selected volume, and then dispense at a time.
Mode 3	Multiple Pipetting (automatic & manual) MULTI PIPET Mode	Dispense number Interval time Pickup & Disp. volume	Motorized	Pick up the selected volume, and then dispense fixed volume. Whenever push a switch - Manual At setting intervals while a switch is pushed - Automatic
Mode 4	Sequenced Pipetting DIFFER MULTI PIPET Mode	Dispense number Pickup & Disp. volume	Motorized	Pick up the selected volume, then dispense different volume whenever push a switch.
Mode 5	Dilution DILUTION Mode	Volumes Pickup & Dispense	Motorized	Pick up the selected volume of liquid A and liquid B with air gap, and then dispense total volume.
Mode 6	Mixing MIXING Mode	Mixing volume Mixing time	Motorized	Repeat setting time, pick up and dispense.
Mode 7	Pipette controller DIGITAL MANUAL Mode	-	Motorized	Pick up the liquid while push a switch, then dispense when push a switch after switch-off once again
Mode 8	Calibration mechanical operation MANUAL CALIBRATION Mode	Correct volume	-	Input corrected value of 100% point with electric balance. (Only for mechanical operation)
Mode 9	Calibration motorized operation MOTOR DRIVE CALIBRATION Mode	Correct volume	-	Input corrected value of 100% point with electric balance. (Only for motorized operation)

Mode 1



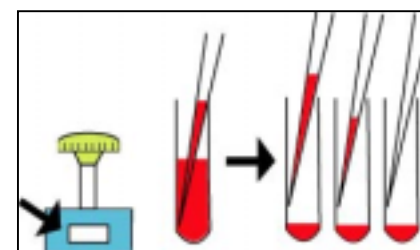
Push the push-button Pickup Dispense

Mode 2



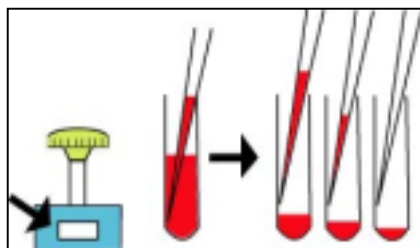
Push the switch Pickup Dispense

Mode 3



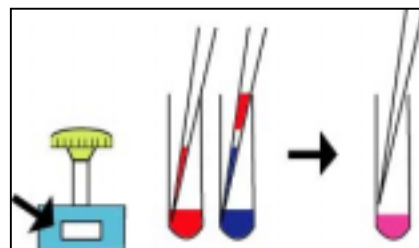
Push the switch Multiple dispensing

Mode 4



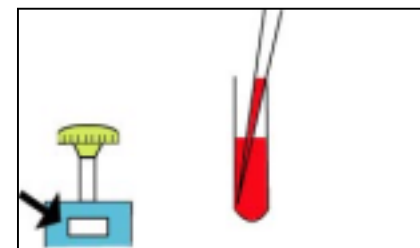
Push the switch Sequenced dispensing

Mode 5



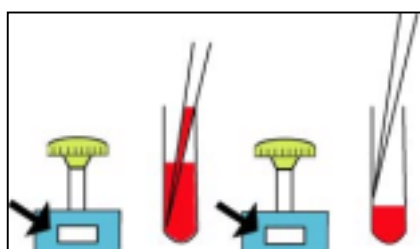
Push the switch Pickup Total dispense

Mode 6



Hold the switch Mixing

Mode 7



Hold the switch Pickup Hold the switch Dispense

Disposable tip (Autoclavable)

	Code	Volume(μ)	Color	Q'ty
00-NHB-200	BMT-SG	2 ~ 200	Yellow	1000
	BMT-SGR (racked)	2 ~ 200	Yellow	960
00-NHB-1000	BMT-L	100 ~ 1000	Blue	1000
	BMT-LR (racked)	100 ~ 1000	Blue	1000

The specification and price subject to change without notice.

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