



Auto Buret UCB-3000

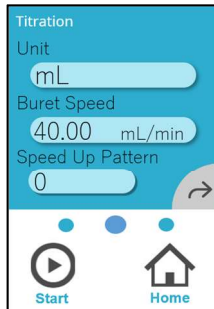
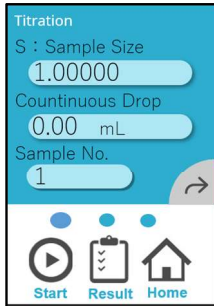


From "manual analysis" to "semi-automation"

A variety of functions, such as an easy-to-read color touch panel and one-handed precision dispensing, support manual titration.

It is very easy to use.

(1) Check the settings



(2) Titrate by one of the following methods

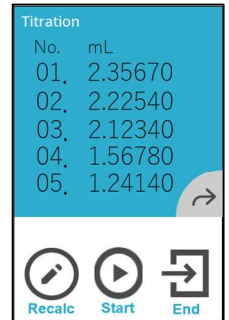


Touch panel

INCREMENT knob

Remote switch

(3) Results Display

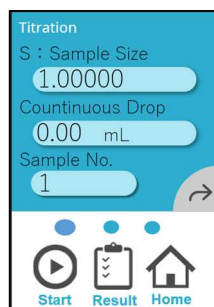


Micro-drops near the endpoint !

1 click
0.01 mL *

*Syringe Capacity 20mL

Titration Support



- Concentration Calculation
- Recalculate concentration (last result only)
- Shorten time by setting continuous dripping
- Stores up to 99 points of titration volume
- Three types of titration patterns

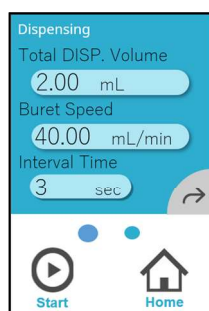
【 Concentration Formula 】

結果単位	標準計算式
mL	D
PPM	$(D - B) * K * F * M * 1000 / S$
%	$(D - B) * K * F * M / (S * 10)$
mol/L	$(D - B) * F * M / S$
g/L	$(D - B) * K * F * M / S$
mg/g	$(D - B) * K * F * M / S$
Non	$(D - B) * K * F * M / S$
Factor	$F * S / (D - B)$

Arbitrary formulas can be created by combining the following

D : Titration volume (mL)
 B : Blank (mL)
 M : Titrant concentration
 F : Factor (potency)
 S : Sample size
 K : Coefficient

Dispensing Support



- Can dispense a set volume
- Setting of dispensing operation interval time
- Set the number of repetitive operations
- Totalize/non-totalize dispensing

Extended Functions

- Host/balance connection via RS-232C
- Can also be used as a Buret for Auto Titrator
 - *For COM-A19/1700(A)
 - *Signal code (P/N: HSJ832875) is required.
- Optional magnetic stirrer
- Easy replacement of Buret Head
 - *Conventional H-1700 can also be used.



Example of combination of optional stirrer

■ Stirrer K-3000TS

Power supply	Does not included AC/DC conversion adapter. (*)
Dimensions / weight	100(W) × 165(D) × 345(H) mm / Approx. 1.5 kg

*: Please prepare the following AC adapter.

- 1) AC Inlet : IEC60320 C14
- 2) DC output rated voltage : DC12V
- 3) DC output capacity : 10W or more (less than 30W)
- 4) Rated input voltage : AC 90V-240V (for the voltage of the place of use)
- 5) AC input frequency 45 ~ 66Hz
- 6) Polarity symbols : Center positive symbol
- 7) DC plug shape : Inner diameter: 2.1mm, Outer diameter: 5.5mm, Length: 9.5mm
- 8) Certified standards : CE marking
- 9) AC CODE : Must be compatible with the adapter specifications to be connected

■ Buret Head H-3000 Series



H-3000-1K (1mL)



H-3000-5 (5mL)



H-3000-10 (10mL)



H-3000-20 (20mL)



H-3000-50K (50mL)

Capacity	Setting range for quantitative dispensing (mL)	Setting range of dispensing speed (mL/min)
1mL	0.001 ~ 999.9	0.001 ~ 2.000
5mL	0.001 ~ 999.9	0.001 ~ 10.00
10mL	0.01 ~ 999.9	0.01 ~ 20.00
20mL	0.01 ~ 999.9	0.01 ~ 40.00
50mL	0.1 ~ 999.9	0.01 ~ 40.00

Standard Specifications “UCB-3000 and H-3000”

ITEM	SPECIFICATIONS
Wetted part material	PTFE, hard glass, ceramic (*1)
Connecting tubes	φ 2 x φ 3 PTFE tube (brown)
Reagent bottle size	500 mL
Valve switching	Automatic switching by ceramic lapping
Operation Mode	3 modes (titration / metered volume dispensing / buret (for auto titrator))
Display	4.3 inch color LCD touch panel
Discharge speed	- Set from 0.01 to 40.00 mL/min - Three types of discharge acceleration patterns (in titration mode)
Buret accuracy	Relative accuracy: ±0.1% or less (with full capacity discharge from 20-mL syringe at factory settings (new)) Repeat accuracy: 0.01 mL or less (with full capacity discharge from 20-mL syringe, n=6 standard deviation)
External input/output	RS-232C: 2 port (For Computer connection, Balance)
Power supply	Does not included AC/DC conversion adapter. (*2)
Dimensions / weight	115(W) × 255(D) × 180(H) mm / Approx. 3.5 kg (UCB-3000) 120(W) × 215(D) × 350(H) mm / Approx. 0.6 kg (H-3000-20 Buret Head)

*1: Hydrogen fluoride cannot be used.

*2: Please prepare the following AC adapter.

- 1) AC Inlet : IEC60320 C14
- 2) DC output rated voltage : DC24V
- 3) DC output capacity : 36W or more (less than 100W)
- 4) Rated input voltage : AC 90V-240V (for the voltage of the place of use)
- 5) AC input frequency : 45 ~ 66Hz
- 6) Polarity symbols : Center positive
- 7) DC plug shape : Inner diameter: 2.1mm, Outer diameter: 5.5mm, Length: 9.5mm
- 8) Certified standards : CE marking
- 9) AC CODE : Must be compatible with the adapter specifications to be connected

Operating Requirements for Equipment

- Temperature: 5–35 °C
- Humidity: 45–85% with no condensation
- Atmosphere: No presence of acid, alkali, organic solvent gas, or rare gas
- Other: No inordinately high amount of dust or particles.
No equipment nearby that generates strong lines of magnetic force.

Note: The color of the actual product may differ from what you see here due to printing-related issues.

Note: The appearance, specifications, and accessories may be changed without prior notice for the purpose of making improvements.

Caution regarding safety: Be sure to read the instructions before use, and use the equipment as intended.

Sales

 **Hitachi High-Tech Science Corporation**

www.hitachi-hightech.com/global/hhs/

Head Office

Toranomon Hills Business Tower,
1-17-1 Toranomon, Minato-ku, Tokyo 105-6409, Japan

Manufacturer

HIRANUMA Co., Ltd.

www.hiranuma.com/english/index.html

Head Office

1739 Motoyoshida, Mito, Ibaraki, 310-0836, Japan