

Premium-Level Semi-Micro/Analytical Balances

BH-T/BH Series



Superior Weighing, Without Compromise

AND
A&D Company, Ltd.

Discover Precision
www.aandd.jp

ABOUT A&D

Who We Are

At A&D Weighing, precision is our passion.

As part of A&D Company, Japan, we've spent over four decades shaping the future of measurement and control technology. Our mission is simple: to empower industries to measure what matters most with unmatched accuracy, reliability, and innovation.

From R&D labs to production floors, A&D solutions combine Japanese engineering excellence with global reach, delivering trusted performance and local support wherever you operate.

Our Heritage

Founded in 1977 by a team of visionary engineers, A&D was built on the fusion of Analog and Digital innovation. From our first electronic balances to today's advanced weighing modules, we've remained true to our roots: precision, reliability, and progress.

Today, A&D is a global network spanning Asia, Europe, and America. United by one purpose: to make precision accessible, scalable, and enduring.

Our Services

We do more than build instruments, we deliver complete weighing solutions.

From concept to calibration, our specialists provide:

- Expert integration into production systems
- On-site installation, service, and training
- Fast, reliable calibration and support

With A&D, you gain more than equipment, you gain a partner committed to your performance.

Touchscreen models: BH-225TE, BH-225DTE, BH-224TE, BH-324TE

Designed for users who demand both precision and usability, these models feature a 5-inch color touch screen with intuitive navigation, real-time graphical feedback, and advanced support tools. The screen responds to pressure, allowing operation even with thick gloves.



Reverse backlit LCD models: BH-225, BH-225D, BH-124, BH-224, BH-324

Designed for users who prioritize cost-efficiency and core functionality, these models offer reliable performance with a simplified interface and excellent display visibility. With models offering different levels of readability, the lineup supports not only high-precision tasks but also applications where moderate accuracy is sufficient.



Touchscreen models: BH-225TE, BH-225DTE, BH-224TE, BH-324TE



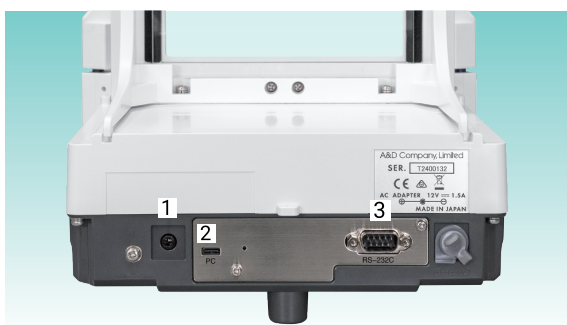
- Touch screen and user navigation
- Multiple languages
- Smart routine check (SRC)
- Formulation mode
- HPLC mode
- Daily/periodic balance check support
- Advanced user access control
- History information
- GLP custom output mode
- Label output mode

Reverse backlit LCD models: BH-225, BH-225D, BH-124, BH-224, BH-324



- Automatic opening/closing of the breeze break doors
- IR sensors
- Engineered design for quick and effortless balance cleaning
- Minimising the impact of drafts and convection flows
- Automatic self-sensitivity adjustment
- Quick on-site performance test
- Impact shock detection (ISD)
- External ioniser for instant static elimination (optional)
- Density measurement mode
- Minimum weight setting and alert

Communication interfaces and connectors



1) External key input (jack socket)

A separately-sold foot switch can be connected for operation of RE-ZERO, PRINT or the automatic breeze break doors.

2) USB (Type-C) for connection with a PC

Using internal settings, you can toggle between Quick USB (HID) mode, which allows direct transmission of weighing data to a PC application (e.g., a spreadsheet), and Virtual COM (CDC) mode for bi-directional communication. A 2-meter USB cable is supplied as standard.

3) RS-232C (D-Sub 9P)

4) Connector for AC adapter

5) Ethernet (TCP/IP)*11

6) USB (Type-A) for USB flash drives*11



Door handle

Simply connect the handle of the door you wish to open/close automatically to the sliding arm below using the latch on the arm.

Sliding arm (with latch)

The arm moves automatically when triggered by one of the IR sensors on the display unit (or an optional foot switch). The opening distance can be set to full, half, or a user-defined position.

IR sensors

The sensitivity of the IR sensors is adjustable to three levels. For the BH-T series, the IR sensors can also be used for contactless activation of the RE-ZERO or PRINT command, as an alternative to controlling the automatic door(s).

Touch screen and user navigation (for the BH-T series)

The touch screen enables intuitive operations while making it easy to enter numbers, change settings, etc. The resistive screen responds to pressure so it can be operated even when wearing thick gloves.

Physical keys

Four frequently used keys are provided as physical keys to allow quick access.



Glass panes and floor plate fully removed



Groove-free side door design



Cleaning brushes (large and small)

Specifications

Common

Internal weight* ⁱ	Approx. 200 g	
Sensitivity drift	±2 ppm/°C (10 to 30 °C/50 to 86 °F, when automatic self-sensitivity adjustment is OFF)	
Operating environment	5 to 40 °C (41 to 104 °F), 85 %RH or less (no condensation)	
Display refresh rate	5 times/sec or 10 times/sec	
Units of measure* ⁱⁱ	mg (milligram), g (gram), oz (ounce), ozt (troy ounce), ct (metric carat), mom (momme), dwt (pennyweight), gr (grain), pcs (counting mode), and % (percent mode)	
Percent mode	Minimum 100% reference mass	10.0 mg
	% readability	0.01%, 0.1%, 1% (depends on the reference mass stored)
Weighing pan size	Ø90 mm	
External dimensions	265 (W) × 442 (D) × 381 (H) mm	
Net weight	Approx. 8 kg	
Power supply / consumption	AC adapter / approx. 36 VA	

BH-T series

	BH-225TE	BH-225DTE	BH-224TE	BH-324TE
Capacity	220 g	51 g / 220 g* ⁱⁱⁱ	220 g	320 g
Readability	0.01 mg	0.01 mg / 0.1 mg* ⁱⁱⁱ	0.1 mg	
Repeatability (standard deviation)* ^{iv}	0.015 mg (for 50 g) 0.03 mg (for 200 g)	0.025 mg (for 50 g) 0.1 mg (for 200 g)	0.09 mg	0.1 mg
Minimum weight* ^v (typical)	17 mg		104 mg	
Linearity	±0.10 mg	±0.2 mg		
Stabilization time (typical when set to FAST)	Approx. 7 secs	Approx. 7 secs / 3 secs	Approx. 3 secs	
Display	5-inch WVGA, TFT LCD color touch screen (resistive type) with two IR sensors			
Display language* ^{vi}	English, French, German, Italian, Dutch, Spanish, Portuguese, Russian, Korean, Chinese, Japanese			
Counting mode	Minimum unit mass	0.1 mg		
	Number of samples	10 to 100 pieces		
Communication interface	RS-232C (D-Sub 9P), USB (Type-A), USB (Type-C), Ethernet (TCP/IP), External key input, Bluetooth® * ^{vii}			
Applicable weights for calibration test/sensitivity adjustment	Any weight between 10 and 200 g			
Standard accessories	AD-1683A external ionizer × 1, High-profile breeze break ring × 1* ^{viii} , Low-profile breeze break ring × 1, AD-1689 tweezers for calibration weight × 1* ^{viii} , Micro spatula × 1* ^{viii} , Large and small cleaning brushes × 1 each, Weigh boat (antistatic, 10 ml) × 10, USB cable (2 m) × 1			

BH series

	BH-225	BH-225D	BH-124	BH-224	BH-324
Capacity	220 g	51 g / 220 g* ⁱⁱⁱ	120 g	220 g	320 g
Readability	0.01 mg	0.01 mg / 0.1 mg* ⁱⁱⁱ	0.1 mg		
Repeatability (standard deviation)* ^{iv}	0.015 mg (for 50 g) 0.03 mg (for 200 g)	0.025 mg (for 50 g) 0.1 mg (for 200 g)	0.09 mg		0.1 mg
Minimum weight* ^v (typical)	17 mg		104 mg		
Linearity	±0.10 mg	±0.2 mg			
Stabilization time (typical when set to FAST)	Approx. 7 secs	Approx. 7 secs / 3 secs	Approx. 3 secs		
Display	Reverse backlit LCD (main characters: 11 segments, 17.8 mm height)				
Counting mode	Minimum unit mass	0.1 mg			
	Number of samples	5, 10, 25, 50 or 100 pieces			
Communication interface	RS-232C (D-Sub 9P), USB (Type-C), External key input				
Applicable weights for calibration test/sensitivity adjustment	200 g, 100 g, 50 g, 20 g, 10 g		100 g, 50 g, 20 g, 10 g	200 g, 100 g, 50 g, 20 g, 10 g	300 g, 200 g, 100 g, 50 g, 20 g, 10 g
Standard accessories	High-profile breeze break ring × 1* ^{viii} , Low-profile breeze break ring × 1, AD-1689 tweezers for calibration weight × 1* ^{viii} , Micro spatula × 1* ^{viii} , Large and small cleaning brushes × 1 each, Weigh boat (antistatic, 10 ml) × 10, USB cable (2 m) × 1				

*ⁱ The mass of the internal weight may change over time due to on-site environmental conditions and/or degradation with age.

*ⁱⁱ Either tael (Singapore/HK jewelry/Taiwan) or tola can be added upon request.

*ⁱⁱⁱ Smart range function: Automatically switches between the precision and standard ranges. Changes back to full precision range when the RE-ZERO (tare) operation is implemented.

*^{iv} Repeatability can worsen depending on the environmental conditions and operator skills.

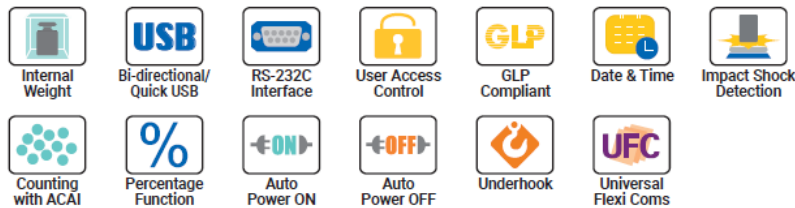
*^v Pursuant to the United States Pharmacopeia (USP), Chapter 41

*^{vi} Certain functions are only available in English and Japanese.

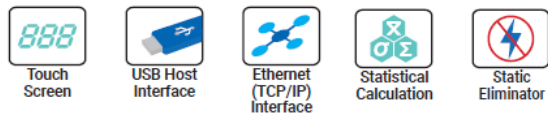
*^{vii} The Bluetooth® function is currently enabled for the US, Canada and Japan only.

*^{viii} For 0.01 mg models

For both series



For the BH-T series only



For the BH series only



Accessories

AD-1653	Density determination kit
AD-1671	Anti-vibration table for balances
AD-1672/AD-1672A	Tabletop breeze break (large)
AD-1683A	External ionizer Also provided as standard for the BH-T series
AD-1684A	Electrostatic field meter
AD-1687	Weighing environment logger
AD-1688	Weighing data logger
AD-8129TH	Compact printer
AX-BHT-31	Display cover for the BH-T series (5 pcs)
AX-BH-31	Display cover for the BH series (5 pcs)
AX-BH-PAN-01 AX-	Weighing pan (perforated)
BH-PAN-02 AX-BM-	Weighing pan (non-perforated)
NEEDLESET AX-	Discharge electrode units for the ionizer (a set of 4 pcs)
HOLDER-SET-B AX-	Sample cup holder set (antistatic)
IR-SWITCH	External IR switch Can be added to the ionizer if you prefer not to put a hand or sample close to the IR sensor of the ionizer.
AX-SW137-PRINT	Foot switch for PRINT (with connector)
AX-SW137-REZERO	Foot switch for RE-ZERO (with connector)



AD-1671
460 (W) × 400 (D) × 71 (H) mm



AD-1683A with AX-IR-SWITCH



Foot switches



Demonstration videos available!



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