

Premium-Level Semi-Micro/Analytical Balances

# BH-T/BH Series



*Superior Weighing, Without Compromise*

**AND**  
A&D Company, Ltd.

Discover Precision

[www.andprecision.com](http://www.andprecision.com)

## Touchscreen models

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

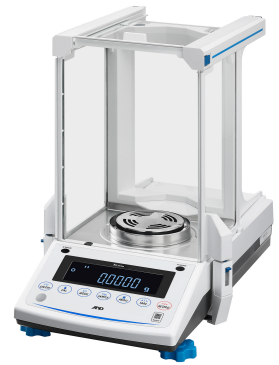
- Touch screen and user navigation
- External ioniser for instant static elimination
- Automatic breeze break doors
- IR sensors (configurable)
- Multiple languages
- Smart routine check (SRC)
- Formulation mode
- HPLC mode
- Advanced user access control and history information
- GLP custom output mode



## Reverse backlit LCD models

Designed for users who prioritize cost-efficiency and core functionality, these models offer reliable performance with a simplified interface. With models offering different levels of readability, the lineup supports high-precision tasks and applications.

- Automatic breeze break doors with IR sensor control
- Engineered design for quick and effortless balance cleaning
- Automatic self-sensitivity adjustment
- Quick on-site performance test
- Impact shock detection (ISD)
- Density measurement mode
- Minimum weight setting and alert
- Data memory function



## 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 Bluetooth®\*11\*12

### ⑥ Ethernet (TCP/IP)\*11

### ⑦ USB (Type-A) for USB flash drives\*11

\*11 For the BH-T series only

\*12 The Bluetooth® function is currently enabled for the US, Canada and Japan only.

# Engineered design for quick and effortless balance cleaning



Glass panes and floor plate fully removed



Groove-free side door design



Cleaning brushes (large and small)

## Specifications

BH-T series	BH-225TE	BH-225DTE	BH-224TE	BH-324TE
Capacity	220 g	51 g / 220 g <sup>*iii</sup>	220 g	320 g
Readability	0.01 mg	0.01 mg / 0.1 mg <sup>*iii</sup>	0.1 mg	
Repeatability (standard deviation) <sup>*iv</sup>	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 <sup>*v</sup> (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 <sup>*vi</sup>	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 <sup>®</sup> <sup>*vii</sup>			
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 <sup>*viii</sup> , Low-profile breeze break ring × 1, AD-1689 tweezers for calibration weight × 1 <sup>*viii</sup> , Micro spatula × 1 <sup>*viii</sup> , 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 <sup>*iii</sup>	120 g	220 g	320 g
Readability	0.01 mg	0.01 mg / 0.1 mg <sup>*iii</sup>	0.1 mg		
Repeatability (standard deviation) <sup>*iv</sup>	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 <sup>*v</sup> (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 <sup>*viii</sup> , Low-profile breeze break ring × 1, AD-1689 tweezers for calibration weight × 1 <sup>*viii</sup> , Micro spatula × 1 <sup>*viii</sup> , Large and small cleaning brushes × 1 each, Weigh boat (antistatic, 10 ml) × 10, USB cable (2 m) × 1				

## Common

Internal weight* <sup>i</sup>	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* <sup>ii</sup>	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	

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

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

\*<sup>iii</sup> 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.

\*<sup>iv</sup> Repeatability can worsen depending on the environmental conditions and operator skills.

\*<sup>v</sup> Pursuant to the United States Pharmacopeia (USP), Chapter 41

\*<sup>vi</sup> Certain functions are only available in English and Japanese.

\*<sup>vii</sup> The Bluetooth® function is currently enabled for the US, Canada and Japan only.

\*<sup>viii</sup> For 0.01 mg models

### For both series



Internal Weight



Bi-directional/Quick USB



RS-232C Interface



User Access Control



GLP Compliant



Date & Time



Impact Shock Detection



Counting with ACAI



Percentage Function



Auto Power ON



Auto Power OFF



Underhook



Universal Flexi Coms

### For the BH-T series only



Touch Screen



USB Host Interface



Ethernet (TCP/IP) Interface



Statistical Calculation



Static Eliminator

### For the BH series only



Reverse Backlit LCD



Data Memory Function



*Demonstration videos available!*



## Discover Precision

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