ION BM SERIES

Microbalances Semi-Microbalances Analytical Balances









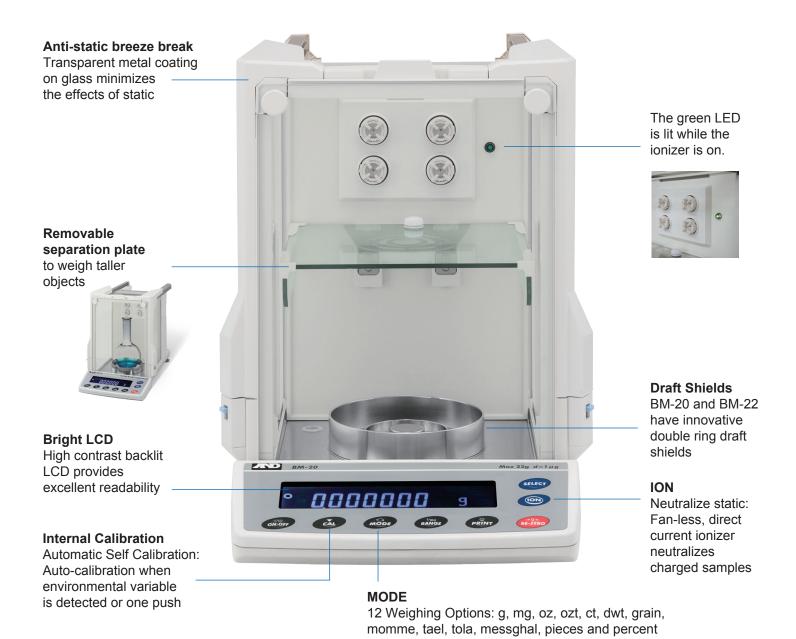
Our fan-less, integrated, direct current ionizer eliminates static and comes standard on all BM models. The automatic response adjustment function is powered by the embedded sensors to deliver fast and stable results to compensate for environmental variables:

- Temperature
- Humidity
- Vibration
- Atmosphere

Key Feature

- Built-in integrated fan-less ionizer to prevent static
- Enhanced performance due SHS weighing technology
- High sensitivity with six decimal place microgram, readability 0.001 mg (1µg)
- One-touch, full digital internal calibration with auto self-cal (ASC)
- Dual draft rings to reduce draft interferences

The Ion Series - Practical Weighing for Micrograms





Interlocking Doors

Work efficiently, open either door from the opposite side, or open both doors with one hand.

Features and Accessories

1.

Charged object appears heavier because static changes the value as it dissipates into the air or pan

2.

Due to static attraction, the charged object will cause the value to shift negative.

Static control

Removing static electricity is critical to accurate weighing. The built-in ionizer improves weighing accuracy by eliminating static. The fan-less direct current (DC) ionizer neutralizes static without the risk of compromising your sample— even fine powders.

This standard feature is easy to use, simply hold the sample in the upper neutralizing chamber for a few seconds before weighing.



Data Logger

- AD-1688 Data Logger stores up to 5000 weighing results with
 - Date
 - Time
 - Temperature
 - Humidity
 - · Atmospheric pressure
 - · WIN-Ct software
- GLP/GMP/GCP/ISO best practice compliance



ADAPTER EXT.SW RS-232C

Weighing Pans

- · Filter weighing pans, to minimize drafts
- · Holders for micro-centrifuge tubes
- 3 disposable aluminum pans: 8, 12 & 15 mm diameter

Standard Ports

RS-232 and USB ports are standard on all BM Series balances

Features and Accessories







Accessories

Product code	Description				
AD-1676	External draft enclosure				
AD-1653	Density determination kit				
BT-3135	Katsota Balance Table 24x35x32				
BT-3136	Katsota Tabletop Slab 20x15x3				
AD-1682	Rechargeable battery unit				
AD-1687	Weighing environment logger				
AD-1689	Long Rubber tipped Tweezers for calibration weight				
AD-1691	Weighing environment analyzer				
AX-BM-031	In-use covers (5 pcs)				
AX-BM-032	Microtube holder for the BM-5/5D/20/22*1				
AX-BM-033	Dust cover for storage				
AX-BM-034	Microtube holder for the BM-252/200/300/500				
AX-BM-035	Slide breeze break (for the BM-5/5D/20/22 only)				
AX-BM-NEEDLESET	Discharge electrode units for the ionizer (a set of 4 pcs)				

0	Option BM-14				
Product code	Description				
AX-HOLDER-SET	Sample cup holder set				
AX-ROUND-PAN-L	Round aluminum analytical pans (Ø15 mm, 0.8 ml, 100 pcs)				
AX-ROUND-PAN-M	Round aluminum analytical pans (Ø12 mm, 0.3 ml, 100 pcs)				
AX-ROUND-PAN-S	Round aluminum analytical pans (Ø8 mm, 0.05 ml, 100 pcs)				
AD-1192	Compact dot matrix printer				
AD-8121B	Multi functional Printer				
AD-8920A	Universal remote display				
AD-8922A	Remote controller				

Options

TB-648

Product code	Description				
BM-08	Ethernet interface with WinCT-Plus software*2				
BM-14	Pipette accessory testing kit*3				

AC Adapter (120V/220V)

- 1 BM-5/5D microtube holder is heavier than the standard weighing pan by approx. 2 g, leaving only approx. 3 g for weighing sample.
- 2 BM-08 and Quick USB (standard) cannot be used at the same time.

Standard functions

























Optional



³ Cannot be used with the BM-5/5D

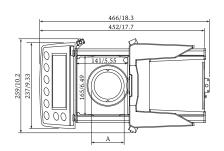
Specifications

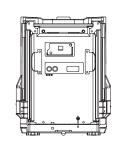
Model	BM-5	BM-5D	BM-20	BM-22	BM-252	BM-200	BM-300	BM-500		
Weighing capacity	5.2 g	2.1 / 5.2 g*1	22 g	5.1 g / 22 g*1	250 g	220 g	320 g	520 g		
Readability	0.001 mg	0.001/0.01 mg	0.001 mg	0.001 / 0.01 mg	0.01 mg		0.1 mg			
Repeatability (Standard Deviation)	0.0012 mg*2	0.01 / 0.04 mg*2	0.0025 mg*2	0.004*2 / 0.01 mg	0.03 mg (for 100 g)	0.1 mg				
Linearity	±0.010 mg	±0.010 / ±0.02 mg	±0.010 mg	±0.010 / ±0.02 mg	±0.010 mg	±0.2 mg	±0.3 mg	±0.5 mg		
Minimum weight (typical) *3	2.0 mg	5.0 mg	3.0 mg	5.0 mg	20 mg	120 mg				
Stabilization time (set to FAST)	~10 sec	~8 /10 sec	~10 sec	~8 /10 sec	~8 sec	~3.5 sec.				
Sensitivity drift (10 °C to 30 °C)	±2 ppm / °C (When automatic self calibration is not used)									
Operating temperature	5 °C to 40 °C (41 °F to 104 °F), 85% RH or less (non-condensation)									
Display refresh rate	5 times / sec or 10 times / sec									
Measurement Units (Display mode)	g, mg, oz, ozt, ct, momme, dwt, GN, tael'4, tola'4, messghal, pieces (counting mode), % (percent mode), Specific gravity									
Counting mode	Minimum unit mass = 0.1 mg / Number of samples = 10, 25, 50 or 100 pieces									
Percent mode	Minimum 100% ref. mass = 10.0 mg / Minimum 100% display = 0.01%, 0.1%, 1% (depends on the reference mass stored)									
Internal Memory		200 sets	weighing data	a / 100 sets with d	ate & time / 50	sets of calibrati	on data			
External Data Logger	Store up to 5,000 weighing results with date & time to AD-1688 (standard)									
Data Output	GLP / GMP / GCP / ISO compliant. Outputs: balance manufacturer, model, s/n, balance identification number, data, time of calibration, mass used, and space for signature.									
Standard interface	RS-232C, Quick USB, External key plug for optional foot switch (SW:128)									
Internal calibration	Motor-driven internal calibration									
External calibration masses (g)	5,	2, 1	20, 1	0, 5, 2, 1	200, 100, 50, 20, 10	200, 100, 50	300, 200, 100, 50	500, 300, 200, 100, 50		
Ionizer electrode pin life	~10,000 hours of continuous use. (User replaceable)									
Weighing pan diameter	25 mm (50 mm, 95 mm for weighing filter optional)				90 mm					
Power consumption	~30 VA (supplied by the AC adapter)									
External dimensions / Weight	690(W) × 860(D) × 630(H) mm 24kg (include AD-1676) 259 (W) x 466 (D) x 326 (H) mm / 10 kg									
Standard accessories	AD-1676 tabletop draft enclosure (BM5/5D only), Gold coated pans (Ø50 mm and Ø95 mm) for weighing filters, Aluminum pans 3 sizes - 10 each, AX-BM-032 microtube holder, AD-1688 weighing data logger, AD-1689 tweezers, AX-BM-033 dust storage cover				AD-1688 weighing data logger, AD-1689 tweezers × 1, AX-BM-033 dust storage cover					

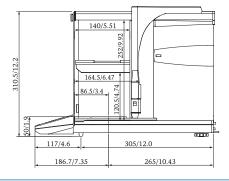
¹ Smart range function: The minimum weighing value switches to 0.01 mg automatically when the display value exceeds 5.1 g but returns to 0.001 mg by pressing the RE-ZERO (tare) key.

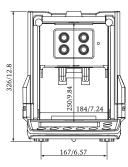
Dimensions (mm/inches)

Models with readability 0.001mg to 0.1mg











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Contact us to request a quote or for more information. Phone 513.777.1525 www.alphaliberty.com

² Repeatability using a 1gram weight within the weighing capacity 3 Pursuant to the United States Pharmacopoeia (USP), Chapter 41

⁴ Can be added upon request