

# Analytical Balances

## Explorer® Semi-Micro Balances Built for Sophisticated, Professional Weighing

- Geared for high performance with up to 0.01 mg readability and capacities up to 220 g. The AutoCal™ Internal Calibration system ensures accuracy of results in applications that require high precision.
- Equipped with a color touchscreen display that enhances the user experience. In addition, touchless sensors, automatic draftshield doors (on select models) and ionizer ensure the integrity of results.
- SmarText™ 2.0 software, intuitive icon-based navigation, 99 item library, 10 user profiles and below minimum sample weight indication all combine to provide an easy yet efficient weighing experience.



- Application** Weighing, Percent Weighing, Parts Counting, Checkweighing, Dynamic/Animal Weighing, Filling, Totalization, Formulation, Differential Weighing, Density Determination, Peak Hold, Pipette Adjustment, SQC
- Display** Full-color VGA graphic display (5.7 in. diagonal), 4-wire resistive touchscreen. QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data
- Operation** AC Adapter (Included)
- Communication** RS232, USB Host, USB Device, optional Ethernet (accessory sold separately) . GLP/GMP data output with real-time clock.
- Construction** Metal base, ABS top housing, stainless steel pan, anti-static glass draftshield with flip-top door, replaceable in-use cover, automatic door as option models
- Design Features** AutoCal™ fully automatic internal calibration system included on all models, fast stabilization time, four touchless sensors, built-in ionizer with automatic door models, 14 operating languages, save to USB function, menu lock switch, security bracket, integral weigh below hook for below balance weighing applications, removable stainless steel weighing platform, stability indicator, overload and underload indicators, auto standby.



Model	Auto Door	Capacity	Readability	Pan Size	Item No.
EX125D		51 g; 120 g	0.01 mg; 0.1 mg	Ø 3.14 in / Ø 80 mm	30139510
EX125		120 g	0.01 mg		30139511
EX225D		120 g; 220 g	0.01 mg; 0.1 mg		30139512
EX225D/AD	•				30139513
EX225/AD	•	220 g	0.01 mg		30139514

Accessories	Item No.
Printer, Impact, SF40A, AM	30064203
Static Ionizer, ION-100A, AM	30130302
USB Extension Cable, EX	30217067
Pipette Adjustment Kit, EX Semi-Micro	30252145
Dust Cover, Balance with Draft Shield	30093334
Auxiliary Display, AD7-RS	30472064
Paper Roll, (1), CBM910	80251932
Ink Ribbon, CBM910	80251933
Cable, RS232,CBM910-AV DV EX MB PA TxxP	80252571
Density Kit, Solids	80253384

Accessories	Item No.
Cable, 25 Pin-9 Pin, PC-TxxP	80500524
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525
Anti-Theft Device, MB AX EX	80850043
Ethernet Kit, EX EX-HiCap	83021082
Cable, RS422, Extension, EX EX-HiCap	83021083
Cable, USB, Type A-B	83021085



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## Explorer® Analytical

### Intelligent Performance No Matter How Difficult the Task

- A large color touchscreen gives access to the advanced application modes and icon-driven application software features such as user manager, library, and minimum weight indication.
- Explorer features fast stabilization times, optimized linearity and repeatability specifications, enhanced vibration filtering as well as AutoCal™ calibration to ensure accuracy.
- The draftshield provides easy entry to the weighing chamber through the flip or sliding top door and the top-mounted side doors which can be automatically controlled on /AD models.



**Application** Weighing, Parts Counting, Percent Weighing, Checkweighing, Animal/Dynamic Weighing, Filling, Totalization/Statistics, Formulation, Differential Weighing, Density Determination, Peak Hold, Ingredient Costing, Pipette Adjustment, SQC

**Display** 5.7" (145 mm) Full-color VGA graphic touchscreen display with user-controlled brightness

**Operation** AC adapter (included)

**Communication** RS232, USB Host, USB Device, optional Ethernet (accessory sold separately) . GLP/GMP data output with real-time clock.

**Construction** Modular design, metal base, ABS top housing, stainless steel pan, glass draftshield with top mounted side doors and flip/sliding top door, illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, four touchless sensors, in-use cover

**Design Features** Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, auto standby, 14 operating languages

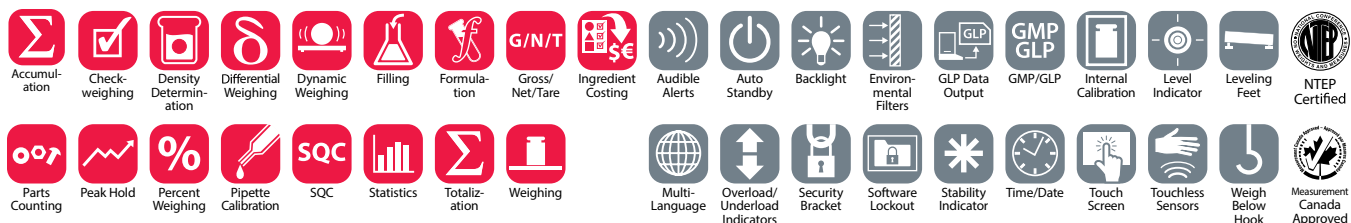


Model	Auto Door	Capacity	Readability	Certified Readability	Pan Size	Item No.
EX124		120 g	0.1 mg	—	Ø 3.5 in / Ø 90 mm	83021331
EX124/AD	•					30061976
EX224		220 g				83021332
EX224/AD	•					30061977
EX324		320 g				83021335
EX324/AD	•		30061978			

Approved Model	Auto Door	Capacity	Readability	Certified Readability	Pan Size	Item No.
EX224N		220 g	0.1 mg	1 mg	Ø 3.5 in / Ø 90 mm	83021334
EX224N/AD	•					30061998
EX324N		320 g				83021337
EX324N/AD	•					30061999

Accessories	Item No.
Cable, RS9 M/F, 1.5 m	12122603
Printer, Impact, SF40A, AM	30064203
Cable, RS422, 9m, EX EX-HiCap	30078078
Dust Cover, Balance with Draft Shield	30093334
Auxiliary Display, AD7-RS	30472064
Printer, Thermal, STP-103, US	80251992
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571
Cable, ST103-AV DV EX MB PA TxxP	80252581
Density Kit, Solids	80253384
Cable, 25 Pin-9 Pin, PC-TxxP	80500524
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525

Accessories	Item No.
Adapter, 25 Pin-9 Pin, SF42 SRP275	80500572
Anti-Theft Device, MB AX EX	80850043
Software, Winwedge	80850080
Ethernet Kit, EX EX-HiCap	83021082
Cable, RS422, Extension, EX EX-HiCap	83021083
Cable, USB, Type A-B	83021085
Foot Switch Kit, EX EX-HiCap	83021086
In-Use-Cover, Terminal, EX	83033633



# Analytical Balances

## Adventurer® Analytical

Ready For Your Lab, Wherever That May Be

- Fast stabilization and reliable operation are enhanced by the AutoCal™ option to ensure solid weighing performance and accurate, repeatable results for standard laboratory applications.
- The wide viewing angle color touchscreen provides access to all of Adventurer's applications, while dual USB ports with GLP/GMP tracking capabilities assist in the monitoring and reporting of data.
- The two piece, top-mounted draftshield doors reduce the footprint of the doors in the rear of the balance when open, and open wide on both sides in order to provide ample room to place samples.



**Application** Weighing, Parts Counting, Percent Weighing, Checkweighing, Animal/Dynamic Weighing, Totalization/Statistics, Formulation, Density Determination, Display Hold

**Display** 4.3" (109 mm) Full-color VGA graphic touchscreen with user-controlled brightness

**Operation** AC adapter (included)

**Communication** RS232, USB Host, USB Device (included). GLP/GMP data output with real-time clock.

**Construction** Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door, illuminated up-front level indicator, integral weigh below hook, security bracket, calibration lock, full housing in-use cover

**Design Features** Selectable environmental filters, auto tare, user selectable span calibration points, software lockout and reset menu, user selectable communication settings and data print options, user definable project and user IDs, 9 operating languages



Model	AutoCal™	Capacity	Readability	Certified Readability	Pan Size	Item No.
AX124	•	120 g	0.1 mg	—	Ø 3.5 in / Ø 90 mm	30100600
AX124/E						30100601
AX224	•	220 g				30100602
AX224/E						30100603
AX324	•	320 g				30100604

Approved Model	AutoCal™	Capacity	Readability	Certified Readability	Pan Size	Item No.
AX224N	•	220 g	0.1 mg	1 mg	Ø 3.5 in / Ø 90 mm	30100630

Accessories	Item No.
Ink Ribbon, SF40A SF42A	12120798
Paper Roll, Set (2), 57.5mm, SF40A	12120799
Cable, RS9 M/F, 1.5 m	12122603
Printer, Impact, SF40A, AM	30064203
Dust Cover, Balance with Draft Shield	30093334
SP In-Use-Cover wo DS AX	30111777
SP In-Use-Cover DS AX	30111792
Auxiliary Display, AD7-RS	30472064

Accessories	Item No.
Paper Roll, (1), Thermal, STP103	80251931
Printer, Thermal, STP-103, US	80251992
Cable, ST103-AV DV EX MB PA TxxP	80252581
Density Kit, Solids	80253384
Cable, 25 Pin-9 Pin, PC-TxxP	80500524
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525
Anti-Theft Device, MB AX EX	80850043
Cable, USB, Type A-B	83021085

Accumulation

Checkweighing

Density Determination

Display Hold

Dynamic Weighing

Formulation

Gross/Net/Tare

Backlight

Environmental Filters

GLP Data Output

GMP/GLP

Internal Calibration

Level Indicator

Leveling Feet

Multi-Language

NTEP Certified

Parts Counting

Percent Weighing

Statistics

Totalization

Weighing

Overload/Underload Indicators

Security Bracket

Software Lockout

Stability Indicator

Time/Date

Touch Screen

Weigh Below Hook

Measurement Canada Approved

# Analytical Balances

## Pioneer® Analytical

### Combining Economy and High Performance for Essential Weighing

- The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.
- Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.
- The PX features a second line display for additional information or guidance, a static removal bar for convenient grounding, and USB and RS232 connectivity for easy communication.



- Application** Basic Weighing, Parts Counting, Percent Weighing, Animal Weighing, Density Determination
- Display** Backlit Liquid Crystal Display (LCD); Second line display for additional information or guidance (dot matrix)
- Operation** AC adapter (included)
- Communication** RS232 and USB device (included); GLP/GMP data output with real-time clock
- Construction** Metal base, plastic top housing, removable stainless steel pan, glass draftshield, integrated weigh-below hook, security bracket, calibration lock and in-use cover
- Design Features** User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, userselectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages



Model	InCal	Draftshield	Capacity (g)	Readability (g)	Certified Readability	Pan Size	Item No
PX84/E		•	82 g	0.1 mg	-	3.54 in / 90 mm	30429845
PX84	•						30429837
PX124/E			120 g				30429846
PX124	•						30429838
PX224/E			220 g				30429847
PX224	•						30430053

Accessories	Item No.
Ink Ribbon, SF40A SF42A	12120798
Paper Roll, Set (2), 57.5mm, SF40A	12120799
Cable, RS9 M/F, 1.5 m	12122603
Printer, Impact, SF40A, AM	30064203
Dust Cover, Balance with Draft Shield	30093334
Auxiliary Display, AD7-RS	30472064
Paper Roll, (1), Thermal, STP103	80251931
Printer, Thermal, STP-103, US	80251992
Sinker Glass for Density Determination	83034024
Cable, USB, Type A-B	83021085
Anti-Theft Device	80850043
Static Ionizer, ION-100A, AM	30130302

Accessories	Item No.
Cable, RS232, CBM910-AV DV EX MB PA TxxP	80252571
Cable, ST103-AV DV EX MB PA TxxP	80252581
Density Kit, Solids	80253384
Cable, 25 Pin-9 Pin, PC-TxxP	80500524
Cable, RS232, IBM 9P, AV DV MB Ranger	80500525
Adapter, 25 Pin-9 Pin, SF42 SRP275	80500572
Software, Winwedge	80850080
In-Use-Cover, PX	30372546



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