OHAUS

Completely re-imagined from the ground up, the OHAUS Explorer® rises to a whole new level – a product so extraordinary, it's like nothing you've seen before!

The OHAUS Explorer features SmarText™ 2.0, our user-friendly application-based graphical software platform in concert with a redesigned antistatic draftshield, enhanced weighing performance, and a flexible modular display that detaches from the weighing base. Ingeniously striking a balance between cutting-edge technology and functional design, the Explorer delivers accurate performance, that will improve your efficiency in the lab.

Features Include:

- **Intelligent Performance** – All Explorers have newly optimized linearity and repeatability specifications and enhanced vibration filtering for better balance stability. All models also come standard with AutoCal™ automatic internal calibration. These combined enhancements improve accuracy, efficiency, and throughput.

- **Intuitive Operation** – A large color touch-screen display, icon-driven application software that features 14 unique application modes, and an adjustable angle display make Explorer the easiest to use, most advanced balance in its class today.

- **Ingenious Design** – The base and terminal separate for maximum flexibility in any work area. The design also isolates the weighing chamber to enhance stability and speed results. Draftshield models feature an oversized chamber with a new quick remove design, enhanced with a unique anti static system.

- **Practical Features** – Explorer has four user-programmable touch free sensors to minimize cross contamination and button wear. All Explorers meet or exceed the Class I and II accuracy requirements in accordance with the National Institute of Standards and Technology (NIST) Handbook 44 (approval pending).

Intelligent PERFORMANCE

Explorer delivers accurate results within seconds, improving operator efficiency, productivity and throughput, with a stabilization time up to 50% faster.

- **Fast stabilization time**
  - Improves operational efficiency
  - Increases throughput
  - Improves productivity
- **Optimized linearity and repeatability specifications**
  - Provides accurate and repeatable results
- **Optimized vibration filtering**
  - Provides balance stability in unstable environments

Intuitive SOFTWARE

SmarText™ 2.0 is OHAUS' easy-to-use graphical software featuring 14 applications, QWERTY / numeric keypads, and below-minimum weight indication.

- **Color VGA display with icons for simple menu navigation**
  - High resolution, 5.7 in (145 mm) color TFT display reproduces highly readable operating software
  - Resistive touch screen display quickly responds to operator's touch or stylus
- **14 built-in applications with customization capabilities to meet the varying needs in laboratory and industrial settings**
- **Minimum Weight capability with visual warning feature**
- **QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data**
- **User Manager with administrator capability**
- **Library function to store and recall customized applications**
- **Alternate RS232 command feature adapts the balance to existing data acquisition software**
- **External input for zero, tare or print operations via the external foot switch accessory**
- **Audible and visual feedback for button presses as well as the indication of the check weighing status**

Ingenious DRAFTSHIELD

Explorer's draftshield provides ample access and visibility to the weighing chamber and features antistatic coated glass.

- **Frameless, flip-top design provides unobstructed access to the weighing chamber**
- **The expansive side entry 6.3 x 9.4 in (160 mm x 240 mm) allows you to freely place and remove large weigh boats or other large vessels in the weighing chamber**
- **Antistatic coated glass helps dissipate static charges in the weighing chamber which could adversely affect the weighing results**
- **Side doors seamlessly glide on top-mounted bearings helping to prevent any potential bind up when balance is left uncleaned**
- **Easy to install and remove glass panels and a stainless steel bottom make Explorer extremely easy to clean**
- **A draftshield chamber light is available when the balance is used in low lighting environments**

Practical TOUCHLESS SENSORS

Explorer features four touchless sensors for hands-free operation of print, calibration, tare, and other selectable functions

- **Hands-free operation**
  - Improves weighing efficiency
  - Eliminates sample residue transfer
  - Minimizes contamination
- **Two sensors on the base and two on the display can be set up individually to allow for remote operations**
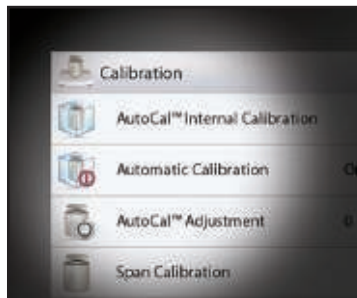
Intelligent CALIBRATION

AutoCal™ ensures performance and assists with routine maintenance by automatically calibrating the balance daily.
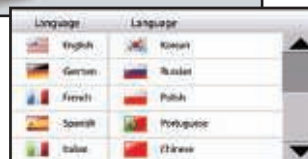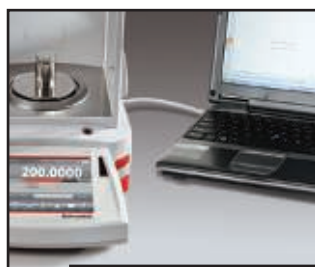
- Fully-automatic internal calibration system
- No need for external masses
- Eliminates cost to maintain external weights
- Self-calibrates the system when it senses a temperature change sufficient enough to affect weighing accuracy, or every 11 hours
- AutoCal feature can be disabled for traditional external calibration

Intuitive USER SETUP

Explorer is the industry's most easy-to-use balance, featuring leveling assistance and instructional messaging for quick out-of-the-box setup and use.

- Easy to view illuminated level indicator placed at the front of the balance
- Adjustable thumbwheels are easy to turn to level the balance
- Level assist screen helps users quickly identify which thumbwheels need to be adjusted to level the balance
- Data Transfer Function helps to output data directly into Microsoft Excel
- Instructional messaging during application use guides users through the weighing process
- User information menu allows users quickly view and learn more about the available balances features
- Up to 11 operating languages make Explorer's Intuitive User Setup truly universal

Ingenious MODULAR DESIGN

Explorer's modular design features a color touch display that can be separated from the weighing base

- **Display features:**
  - Angular adjustment to optimize viewing
  - Easy access communication ports including standard USB and RS232 and an optional third port of either RS232 or Ethernet
  - Left and right side cable exit feature for customized installation capability
  - Tower and wall mount ready for modular installation
  - In-use cover for protection against rugged use
  - Extension cable accessory extends remote use up to 10 feet
- **Base features:**
  - Quadrastance™ design with four low resistance adjustable thumbwheels make the balance easy to level and provide superior stability
  - Robust die-cast metal bottom housing
  - Accessory tower mount ready for modular installation
  - Cable storage system

Practical APPROVALS*

Explorer is designed and engineered to meet stringent NTEP requirements for use in legal applications such as pharmacies, jewelry stores and retail outlets

The Explorer has been designed to meet or exceed the Class I and II accuracy requirements in accordance with the National Institute of Standards and Technology (NIST) Handbook 44.

In addition to being designed to meet or exceed the Class I and II accuracy requirements for a prescription balance, the Explorer will also be approved for Counting for Prescription Filling. Explorer will make it easy to comply with the regulations requiring that an approved balance to be installed in every operating pharmacy.

*Approval pending

Applications

The OHAUS Explorer's advanced applications simplify even the most complex laboratory measurements. Whether it's determining the difference between initial and residual weights or calculating the density of solids and liquids, Explorer eliminates the need for time consuming manual calculations and data logging. The high resolution display and innovative user interface make balance setup and application use effortless.

Displays your current application. One-touch drop down menu shows additional application choices

Touch to change your application settings

Quickly store and recall your library data of regularly used items

Need help? Just tap the Info button for built-in assistance

Easy-to-follow text prompts tell you what to do next

Large weigh results can be viewed at any angle

Press the weighing unit to change the unit of measure (activate in Weighing Units menu)

Results area shows pertinent application information (varies by application)

Fill and capacity bar indicators assure you are always in range. (indicators vary by application)

Soft keys are application specific

Seven quick keys make balance operation a breeze!

Press Menu to choose applications, change user settings, balance setup and much more!

Screen display text:
- Filling | Library
- Step 1 of 3: Add 100.00 grams of Item1. Press Accept.
- 80.67 g
- Fill Status 0 80.7% 110
- Diff. (wt.): -19.33 g Target: 100.00 g
- Diff. (%): -19.3 %
- Edit Settings | Tare | Statistics 1 | Accumulate
- Standby | Print | Applications | Sensors | AutoCal™ | Menu | More...

Standard Apps Include:

Weighing
Determine the weight of items in the selected unit of measure. Minimum Weight feature is also available.

Percent Weighing
Measure the weight of a sample displayed as a percentage of a pre-established Reference Weight.

Dynamic Weighing
Weigh an unstable load. Balance takes an average of weights over a time period.

Totalization
Measure cumulative weight of multiple items. Cumulative total may exceed Balance capacity.

Differential Weighing
Store sample weights and calculate the difference between initial weights and final weights.

Peak Hold
Capture and store highest weight in a series. Both stable and unstable weights are captured.

Parts Counting
Count samples of uniform weight. Choose Standard Counting, Check Counting, or Fill Counting.

Pipette Adjustment
Check pipette values by weight analysis, with built-in water density table.

Check Weighing
Compare the weight of a sample against target limits. Choose from Standard, Nominal-weight, or Nominal-Percent.

Filling
Fill a container to a target weight. Progress bar displays filling status.

Formulation
For compounding and recipe making. The number of components can be from two to 99.

Density Determination
Determine density of solids more dense than water, solids less dense than water, liquids, or porous material.

Ingredient Costing
Determine cost of formula or recipe based on known cost/quantity of components or ingredients.

SQC
Monitor and/or control processes to eliminate under and over filling.

Other Standard Features & Equipment

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, powered by an ENERGY STAR® qualified adapter for a better environment.
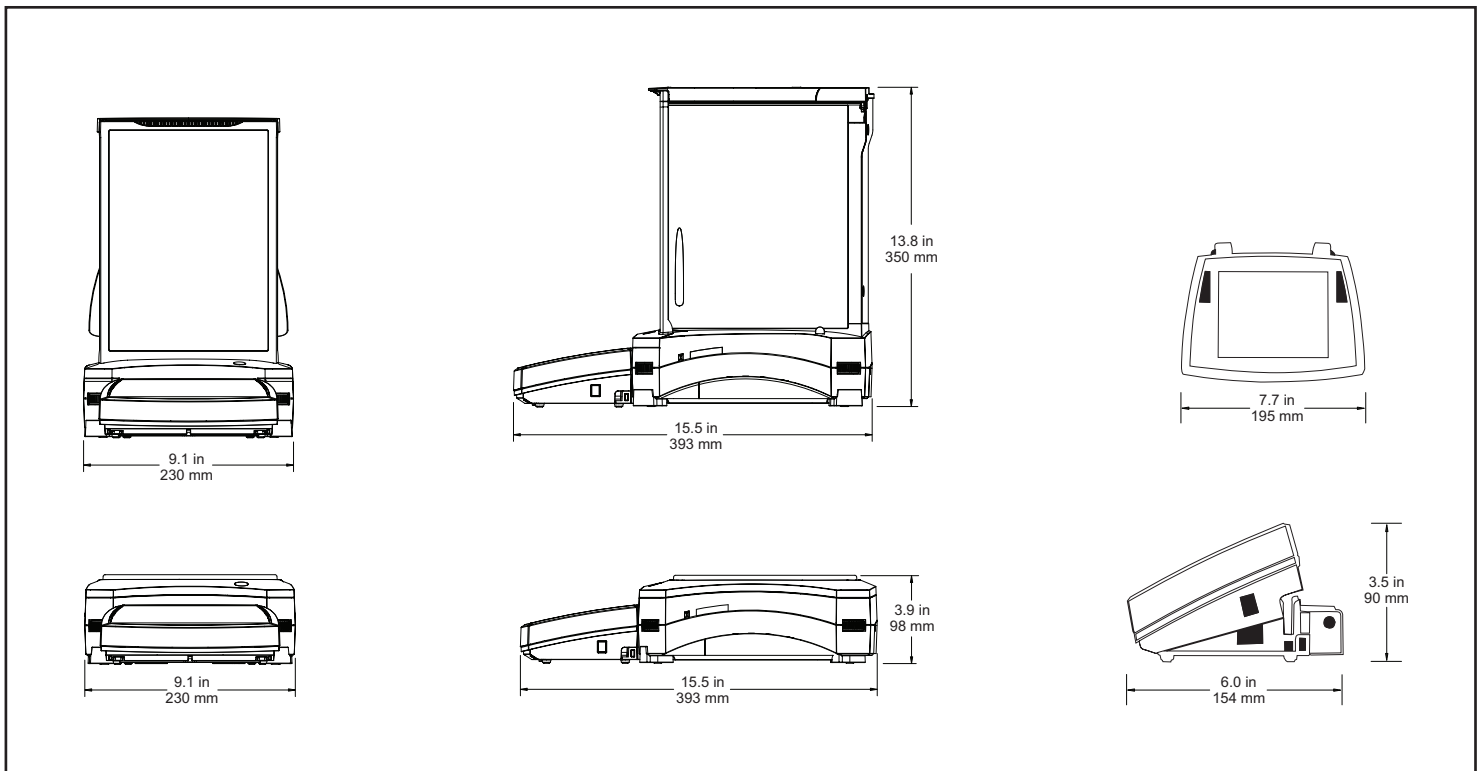
Accessories

	OHAUS Number
Tower Mount for Display	83021102
Display Extension Cable	83021083
Density Determination Kit	80253384
Draftshield Kit (0.01g and 0.1g balances)	83021084
Security Device	76288-01
Interface Cable, USB (Type A to B)	83021085
Second RS232 Kit	83021081
Ethernet Kit	83021082
Foot Switch Kit	83021086
Compact Thermal Printer	80251992
Compact Dot Matrix Impact Printer	80252042
RS232 Cable & Adapter to 80252042 Printer	80252571
RS232 Cable & Adapter to 80251992 Printer	80252581
RS232 Cable, PC 25 Pin	80500524
RS232 Cable, PC 9 Pin	80500525

Optional Tower Mount

Outline Dimensions

9.1 in
230 mm

13.8 in
350 mm

15.5 in
393 mm

7.7 in
195 mm

9.1 in
230 mm

3.9 in
98 mm

15.5 in
393 mm

3.5 in
90 mm

6.0 in
154 mm

Explorer® *Analytical and Precision Balances*

Specifications

Model	EX124	EX224	EX324	EX223	EX423	EX623	EX1103	EX2202	EX4202	EX6202	EX10202	EX6201	EX10201
Capacity (g)	120	220	320	220	420	620	1100	2200	4200	6200	10200	6200	10200
Readability (g)	0.0001			0.001				0.01				0.1	
Repeatability std (g)	±0.0001			±0.001				±0.01				±0.1	
Linearity (g)	±0.0002			±0.002				±0.02				±0.1	
Stabilization Time (sec)	≤2		≤3	≤1.5				≤1					
Weighing Applications	Weighing, Percent Weighing, Parts Counting, Check Weighing, Dynamic/Animal Weighing, Filling, Totalization, Formulation, Differential Weighing, Density Determination, Peak Hold, Ingredient Costing, Pipette Adjustment, SQC												
Weighing Units	Gram, Milligram, Kilogram, Carat, Ounce, Ounce Troy, Pound, Pennyweight, Grain, Newton, Momme, Mesghal, Hong Kong Tael, Singapore Tael, Taiwan Tael, Tical, Tola, Baht, 3 Custom Units												
Calibration	AutoCal™ on Δ1.5°C temperature change, 11 hours, and external calibration												
Tare Range	To capacity by subtraction												
Power Requirements	AC Adapter Input: 100-240 VAC 0.6A 50-60 Hz												
Display Type	Full-color VGA graphic display, 4-wire resistive touch screen												
Display Size	5.7 in / 145 mm (diagonal)												
Display Housing Dimensions (W x H x D)	7.7 x 3.5 x 6.0 in / 195 x 90 x 154 mm												
Base Housing Dimensions (W x H x D)	9.1 x 13.8 x 15.5 in / 230 x 350 x 393 mm							9.1 x 3.9 x 15.5 in / 230 x 98 x 393 mm					
Communication	RS232, USB												
Operating Temperature Range	50°F (10°C) to 86°F (30°C)												
Operating Humidity Range	15% to 80% at 87.8°F (31°C) decreasing linearly to 50% at 40°C, non-condensing												
Storage Conditions	-14°F (-10°C) to 140°F (60°C) at 10% to 90% relative humidity, non-condensing												
Pan Size	Ø 3.5 in / 90 mm			Ø 5.1 in / 130 mm				7.5 x 7.9 in / 190 x 200 mm					
Net Weight	15.2 lb / 6.9 kg							9.5 lb / 4.3 kg				11 lb / 5 kg	
Shipping Weight	21.1 lb / 9.6 kg							15 lb / 6.8 kg				16.3 lb / 7.4 kg	
Shipping Dimensions	21 x 15 x 21 in / 55 x 38.5 x 55.1 cm							21 x 15 x 12 in / 55 x 38.5 x 29.1 cm					

Compliance

- This product conforms to the EMC Directive 2004/108/EC, the Low Voltage Directive 2006/95/EC and the Non-automatic Weighing Instruments Directive 2009/23/EC. The complete Declaration of Conformity is available online at www.ohaus.com.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.
- **Quality:** All OHAUS Explorer® balances are manufactured under an ISO 9001:2008 Registered Quality Management System. Our rugged construction and stringent quality control have been hallmarks of all OHAUS products for over a century.