The all-new OHAUS

EXPLORER®

Intelligent.
Intuitive.
Ingeniously Practical.

OHAUS

*Introducing the most intelligent and intuitive balance
ever to come from the mind of OHAUS. The all-new Explorer®*

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 repetitive results
- Superior vibration filtering
  - Provides balance stability in unstable environments

Intuitive SOFTWARE

SmarText™ 2.0 is OHAUS' easy-to-use graphical software featuring 14 applications, QWERTY and 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
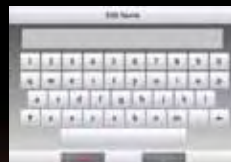
*The all-new Explorer® Series of Analytical and Precision balances —
a product so extraordinary, it's like nothing you've seen before!*

Ingenious DRAFTSHIELD

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

- Frameless, flip-top design provides unob-structed access to the weighing chamber
- The expansive side entry 160mm x 240mm 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 that 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

*Completely re-imagined from the ground up,
the OHAUS Explorer® rises to a whole new level.*

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
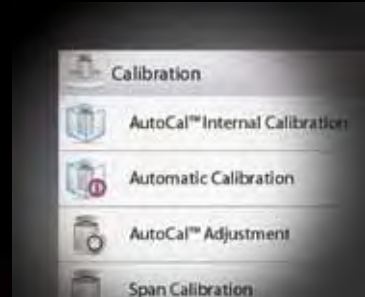
Intuitive USER SETUP

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 to 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 applications use guides users through the weighing process
• User information menu allows users to quickly view and learn more about the available balances features
• Up to 11 operating languages make Explorer's Intuitive User Setup truly universal
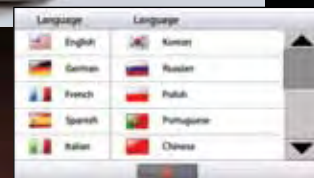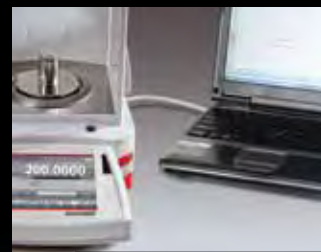
The Explorer® is a revolutionary shift in the way users interact and operate a weighing instrument, all based on our ingeniously practical design philosophy.

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 adjustable thumbwheels provides 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 or OIML 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 be installed in every operating pharmacy.

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.

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.

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.

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, touch screen												
Display Size	145 mm (diagonal)												
Display Housing Dimensions (W x H x D)	195 x 90 x 154 mm												
Base Housing Dimensions (W x H x D)	230 x 350 x 393 mm							230 x 98 x 393 mm					
Communication	RS232, USB												
Operating Temperature Range	10°C to 30°C												
Operating Humidity Range	15% to 80% at 31°C decreasing linearly to 50% at 40°C, non-condensing												
Storage Conditions	-10°C to 60°C at 10% to 90% relative humidity, non-condensing												
Pan Size	Ø 90 mm			Ø 130 mm				190 x 200 mm					
Net Weight	6.9 kg							4.3 kg		5 kg			
Shipping Weight	9.6 kg							6.8 kg		7.4 kg			
Shipping Dimensions	55 x 38.5 x 55.1 cm							55 x 38.5 x 29.1 cm					

OIML Approved Models

| Model	EX224M	EX324M	EX423M	EX1103M	EX4202M	EX10202M	EX10201M
Capacity (g)	220	320	420	1100	4200	10200	10200
Readability (g)	0.0001		0.001		0.01		0.1
Verification Interval (e)	1mg		0.01g		0.1g		
Class	I		II	I	II		I
Repeatability std (g)	±0.0001		±0.001		±0.01		±0.1
Linearity (g)	±0.0002			±0.002	±0.02		±0.2
Stabilization Time (sec)	≤2	≤3	≤1.5		≤1		
Weighing Applications	Weighing, Check Weighing, Dynamic/Animal Weighing, Totalization Other applications pending approval						
Weighing Units	mg, g, ct				mg, g, kg, ct		
Calibration	AutoCal™ on 1.5 temperature change, 11 hours, user setup						
Pan Size (mm)	Ø 90		Ø 130		190 x 200		
Net Weight	6.9kg				4.3kg	5kg	
Shipping Weight	9.6kg				6.8kg	7.5kg	

Accessories

	Part 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	80850043
Printers, Thermal and Impact	Contact OHAUS
Interface Cables, Printers	Contact OHAUS
Interface Cable, PC 25 pin	80500524
Interface Cable, PC 9 pin	80500525
Interface Cable, USB (Type A to B)	83021085
Second RS232 Kit	83021081
Ethernet Kit	83021082
Foot Switch Kit	83021086
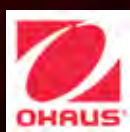
The all-new OHAUS EXPLORER®

Intelligent. Intuitive. Ingeniously Practical.

www.OHAUSEXPLORER.com

Flagship Balances from OHAUS

The OHAUS Explorer Series of analytical balances combine modern features and design elements to offer unmatched functionality in a line of high-performance balances unlike any other on the market. These smart and intuitive balances and all of their intelligent features simplify even the most complex laboratory measurements.

Unique Features Include:

- Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

- Features such as four-level user management with password protection, and un-editable system log plus a high level of configurability make Explorer balances well suited for regulated applications.

- A detachable terminal with a large color touchscreen, programmable IR sensors, automatic doors, and a frameless draftshield make Explorer analytical balances easy and convenient to use.

EXPLORER® *Analytical, Precision, High Capacity*

Intelligent PERFORMANCE

With stabilization times up to 50% faster and superior shock protection, Explorer delivers fast, accurate, and reliable results.

- **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

- **Superior Shock, Spill and Splash Resistance**
  —2-D Protection guards balance against disruptions in service due to shock or sudden movements. IP54 base enclosure protects the weighing base from damage by debris and accidental spills and splashes.*

*High Capacity Models Only

Intuitive SOFTWARE

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

- **Color VGA display with icons for simple menu navigation**
  —High resolution, 5.7" (145mm) diagonal color 640 × 480 pixel 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**

- **Virtual QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data , direct scan of the sample ID to the input field with an optional barcode reader.**

- **Password protected User Manager with administrator capability**

- **Library function to store and recall customized applications including 10 recipes for Formulation application.**

- **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 touch screen input commands as well as the indication of the check weighing status**

*13 application modes on Explorer High Capacity models
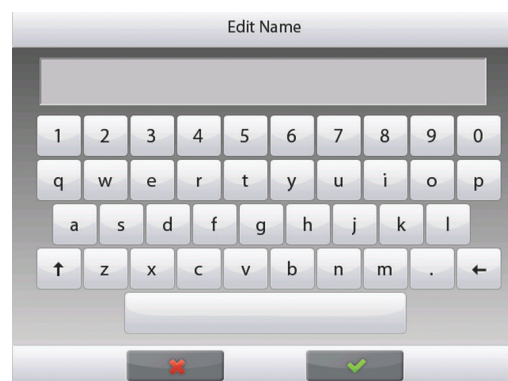
Ingenious DRAFTSHIELD

Explorer's draftshield provides ample access and visibility to the weighing chamber through the versatile top door and side sliding doors. Select models feature motorized side doors that open and close automatically with use of the touchless sensors on the base and display.

- **The automatic draftshield door models have a new function for automatically opening draftshield doors without touching the balance. It helps to eliminate sample residue transfer and contaminations.**

- **Side doors seamlessly glide on top-mounted bearings**

- **The versatile top door offers two entry options; access the weighing chamber by flipping the top door or sliding the glass panel open.**

- **The expansive side entry 6.3" × 9.4" (160 mm × 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**

- **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**
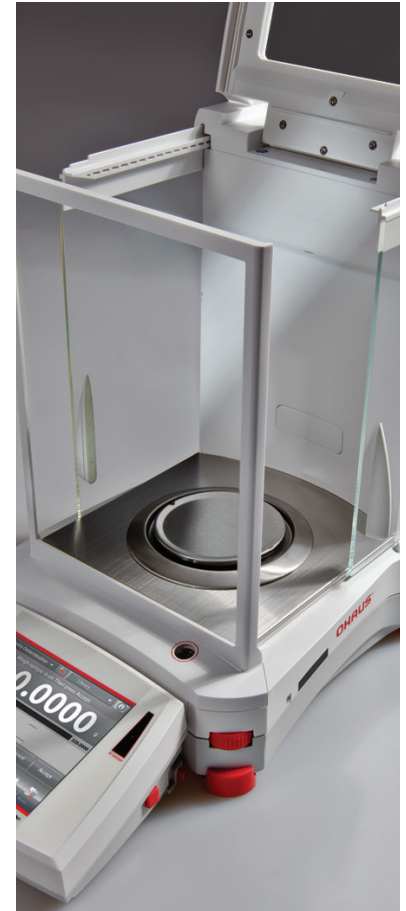
Practical TOUCHLESS SENSORS

Explorer features up to four touchless sensors for hands-free operation of zero, print, calibration, tare, automated draftshield doors 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**

- **The sensors can be set up to provide automated operation of the draftshield side doors and can be programmed to automatically open the opposite side door in order to support efficient and logical sample placement with your free hand.**

*Analytical and precision models only.
 Automatic Draftshield door operation only offered on Analytical models

EXPLORER® *Analytical, Precision, High Capacity*

Intelligent CALIBRATION

AutoCal™ ensures performance and assists with routine maintenance by automatically calibrating the balance daily.

- **Self-calibrates the system when it senses a temperature change sufficient enough to affect weighing accuracy, or every 3-11 hours, depending on the user configuration**

- **Performs routine calibration and reduces the need for external masses**

- **External Calibration Models Available**—
  All models feature traditional external calibration in which external weights (user's choice of calibration weight values) are required to calibrate the balance to ensure accuracy

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 14 operating languages make Explorer's Intuitive User Setup truly universal**
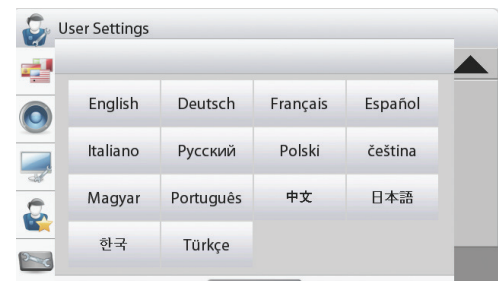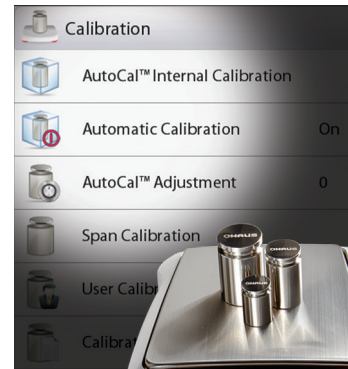
Dimensions
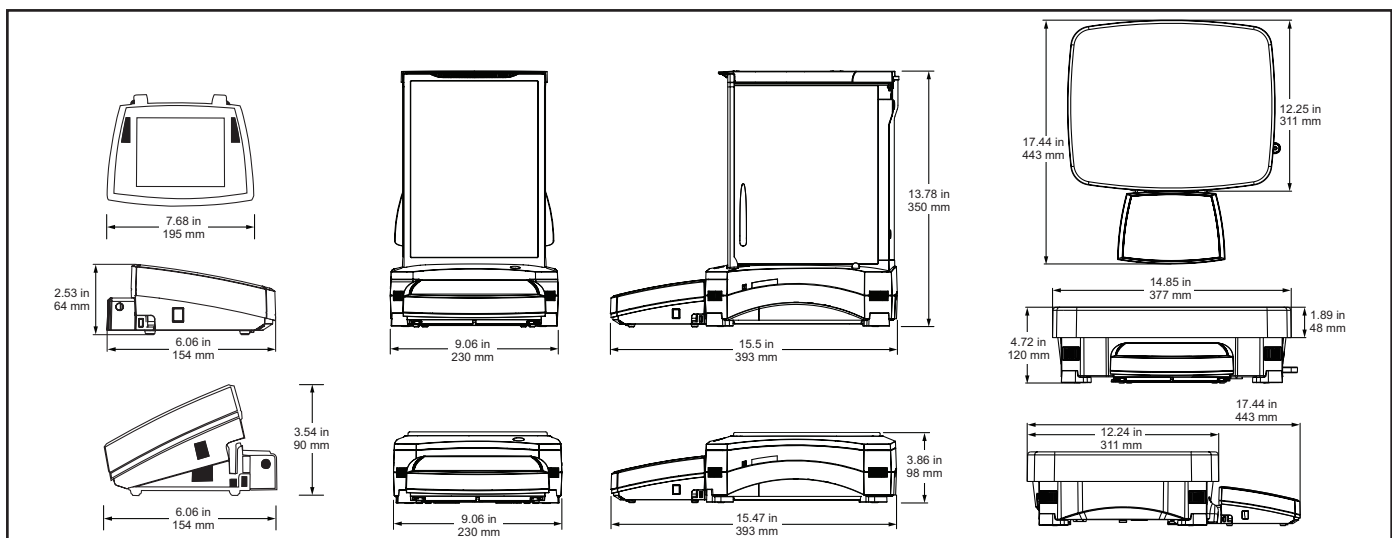
Ingenious MODULAR DESIGN

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

- **Display features:**
  - —3 position, angular adjustment to optimize viewing
 - —Easy access communication ports include standard USB and RS232 and an optional third port for 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 27 feet (9 meters)
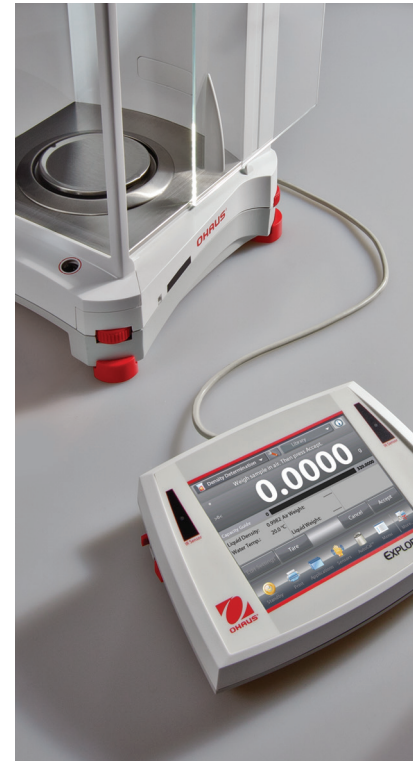
- **Base features**
  - —Quadrastance™ design with four adjustable thumbwheels provides superior stability
  - —Robust die-cast metal bottom housing
  - —Accessory tower mount ready for modular installation
  - —Cable storage system underneath base keeps excess cables manageable

- **Adjustable rolling feet accessory allows for simple and quick movement and relocation of the balance****

*Tower mount sold separately
**High capacity models only

Practical APPROVALS

Explorer EX…N series of balances meet or exceed the Class I or II accuracy requirements in accordance with NIST Handbook 44 and Canada's Weights and Measures Regulations. Certificate of Conformance Number 12-012 was issued under the National Type Evaluation Program (NTEP) of the National Conference on Weights and Measures. Notice of Approval AM-5847 was issued by Measurement Canada, an Agency of Industry Canada.

Other Standard Features & Equipment:

Menu lock switch, security bracket, integral weigh below hook for below balance weighing applications, removable stainless steel weighing pan, stability indicator, overload and underload indicators, auto standby.

EXPLORER® *Application Software*

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

Battery life indicator when powered by optional battery pack (for High Capacity models only)

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)

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...

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!

Standard Apps

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

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

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

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

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

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

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

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

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

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

Pipette Adjustment
Check pipette values by weight analysis, with built-in water density table. (Non High Capacity Models)

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

Fill Weight Variation
Check whether the individual pill weight is in the tolerance of the average of total pill weight.

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

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

EXPLORER® *High Capacity*

The Explorer series includes three high-capacity precision models with capacities up to 35 kg. Explorer high-capacity balances offer the same intuitive features, such as AutoCal™ and a 1 second stabilization time, with additional functions and attributes to support higher capacity weighing applications.

Modular Design
- **5.7" (145mm) diagonal color VGA touch screen optimizes viewing and menu navigation**
- **Two touchless sensors on display offer hands-free operation**
- **The display can be separated from the base up to 5 feet (1.5 meters) in order to fit operational needs in almost any workspace. A 27 foot (9 meter) cable is also available when additional flexibility is needed.**

Superior protection in rugged or unstable environments
- **With a die-cast metal base and a 14.8" × 12.2" (377 × 311mm) stainless steel pan, the Explorer High Capacity is built to withstand rugged, every day use.**
- **2-D Protection prevents shock and damage associated with movement and forces applied to the balance**
- **IP54 base enclosure protects the weighing base from damage by debris and accidental spills and splashes. (High Capacity models only)**

High Capacity Accessories for Added Efficiency
- **Adjustable rolling feet option provides assistance to easily moving the balance**
- **Rechargeable battery option provides 10 hours of operation away from a power source**
- **Weigh-below hook included and can be used for density determination**

Shown with optional tower mount and rolling feet

Model	EX12001	EX24001	EX35001
Certified Models	**EX12001N**	**EX24001N**	**EX35001N**
Capacity (g)	12000	24000	35000
Readability (g)	0.1	0.1	0.1
Verification Interval* e (g)	1g	1g	1g
Class*	II	II	II
Repeatability std (g)	±0.1	±0.1	±0.1
Linearity (g)	±0.2	±0.2	±0.2
Stabilization Time (sec)	≤1	≤1	≤1
Sensitivity Draft (PPM/°C)	3	3	3
Weighing Applications	Weighing, Percent Weighing, Parts Counting, Check Weighing, Dynamic/Animal Weighing, Filling,Totalization, Formulation, Differential Weighing, Density Determination, Peak Hold, Ingredient Costing, SQC, Fill Weight Variation		
Weighing Units	g, kg, ct, gn, lb, oz , ozt, N, dwt, hkt, sgt, twt, mom, tical, msg, tola, Custom Unit 1, Custom Unit 2, Custom Unit 3		
Weighing Units, Certified Models	g, kg, oz, lb, ct, ozt, grain, dwt		
Pan Size	14.84 × 12.24 in / 377 × 311 mm		
Calibration	AutoCal™ internal calibration		
Tare Range	To capacity by subtraction		
Power Requirement	Power Input 100-240 VAC, 0.5-0.25A, 47-63 Hz, Power Output: 24 VDC, 0.63 A, 15W		
Display Type	Full-color VGA graphic display, 4-wire resistive touch screen		
Display Size	5.7 in / 145 mm (diagonal)		
Display Housing (W × H × D)	7.68 × 3.54 × 6.06 in / 195 × 90 × 154 mm		
Base Housing (W × H × D)	14.84 × 4.72 × 17.44 in / 377 × 120 × 443 mm		
Communication	Standard RS232, USB, Optional Ethernet		
Operating Temperature Range	50°F to 86°F / 10°C to 30°C		
Operating Humidity Range	80% max up to 86°F/30°C, decreasing linearly to 50% at 104°F/40°C, non-condensing		
Storage Conditions	14°F/-10°C to 140°F/60°C at 10% to 90% relative humidity, non-condensing		
Net Weight	22 lbs / 10 kg		
Shipping Weight	25.8 lbs / 12.5 kg		
Shipping Dimensions	26.18 × 20.67 × 13.00 in / 665 × 525 × 330 mm		

*Certified models only

EXPLORER® *Analytical and Precision Balances*

Model	EX124	EX224	EX324	EX223	EX423	EX623	EX1103	EX2202	EX4202	EX6202	EX10202	EX6201	EX10201
Automatic Door	EX124/AD	EX224/AD	EX324/AD	—	—	—	—	—	—	—	—	—	—
External Calibration	—	—	—	EX223/E	EX423/E	—	—	EX2202/E	EX4202/E	EX6202/E	—	EX6201/E	—
Certified Models	EX124N/AD	EX224N EX224N/AD	EX324N EX324N/AD	EX223N EX223N/E	EX423N EX423N/E	—	EX1103N	EX2202N/E	EX4202N EX4202N/E	EX6202N EX6202N/E	EX10202N	EX6201N EX6201N/E	EX10201N
Capacity (g)	120	220	320	220	420	620	1100	2200	4200	6200	10200	6200	10200
Readability d (g)	0.0001			0.001				0.01				0.1	
Verification Interval* e (g)	0.001			0.01		—	0.01	0.1					
Class*	I			II		—	I	II			I	II	I
Repeatability std (g)	±0.0001			±0.001				±0.01				±0.1	
Linearity (g)	±0.0002			±0.002				±0.02				±0.2	
Stabilization Time (sec)	≤2		≤3	≤1.5				≤1					
Sensitivity Drift (ppm/°C)	1.5			3								5	3
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, Custom Unit 1, Custom Unit 2, Custom Unit 3												
Weighing Units, Certified Models	mg, g, oz, lb, ct, ozt, grain, dwt					—	mg, g, oz, lb, ct, ozt, grain, dwt	g, kg, oz, lb, ct, ozt, grain, dwt					
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, Fill Weight Variation												
Pan Size	Ø 3.54 in / 90 mm			Ø 5.12 in / 130 mm			7.48 × 7.87 in / 190 × 200 mm	7.48 × 7.87 in / 190 × 200 mm					
Calibration	All models feature external calibration. Models feature AutoCal™ internal calibration, except for EX.../E models												
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 (W×H×D)	7.68 × 3.54 × 6.06 in / 195 × 90 × 154 mm												
Base Housing (W×H×D)	9.06 × 13.78 × 15.47 in / 230 × 350 × 393 mm							9.06 × 3.86 × 15.47 in / 230 × 98 × 393 mm					
Communication	RS232, USB and optional ethernet												
Temperature Range	50°F to 86°F / 10°C to 30°C												
Humidity Range	80% max up to 86°F/30°C decreasing linearly to 50% at 104°F/40°C, non-condensing												
Storage Conditions	140°F/60°C at 10% to 90% relative humidity, non-condensing												
Net Weight	15 lbs / 6.9 kg							10 lbs / 4.3 kg				11 lbs / 5 kg	
Shipping Weight	21 lbs / 9.6 kg							15 lbs / 6.8 kg				16 lbs / 7.4 kg	
Shipping Dimensions	21.65 × 15.16 × 21.69 in / 55 × 38.5 × 55.1 cm							21.65 × 15.16 × 11.45 in / 55 × 38.5 × 29.1 cm					

For specifications related to the Unites States Pharmacopoeia (USP) minimum weight standard visit www.Ohaus.com/USPMinWeight

Compliance
• **Metrology:** NIST Handbook 44 (NTEP CC 12-012), Measurement Canada Weights and Measures Regulations (AM-5847) (Class I, nmax 320000; Class II, nmax 42000; certified models only)
• **Product Safety:** IEC/EN 61010-1:2010; CAN/CSA-C22.2 No. 61010-1-12; UL Std. No. 61010-1 (3rd Edition)
• **Electromagnetic Compatibility:** IEC 61326-1; EN 61326-1:2006 (Class B); C-Tick; FCC Part 15 (Class A); ICES-003 (Class A)
• **Environment:** RoHS; WEEE

Accessories
Density Determination Kit. 80253384
Sinker glass for Density Determination Kit 83034024
Full-featured Impact Printer SF40A 30064202
SF40A Paper roll (57,5mm 2pcs) 12120799
SF40A Ink ribbon cassette 12120798
ION-100A – Ionizer 30130302
RS232 Cable, PC 9 Pin 00410024
Cable, USB A to Mini USB, 1.8m Black 28120263
Cable, USB-RS232 Converter 30268619
Ethernet Kit. 83021082
Tower Mount for Display (non High Capacity models) . .
. 83021102
Tower Mount for Display** 30078082

Display Extension Cable (9 Meter / 27 Feet) . . .30078078
Display Extension Cable (2 Meter / 6.56 Feet). .83021083
Draftshield Kit (0.01g, 0.1g) (non High Capacity models) 83021084
Security Device (Cable & Lock). 80850000
Security Device (Laptop Lock) 80850043
Foot Switch Kit. 83021086
Rolling Feet Kit**. 30041470
Rechargeable Battery Pack** 30041295
Auxiliary Display 30472064
Terminal in-use cover 83033633
Dust cover 30093334

*Certified models only **High Capacity models only*

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The management system governing the manufacture of this product is ISO 9001:2015 certified.

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