



The OHAUS Explorer[®] Series has risen to the next level of ingenuity expanding on its modern features & design to offer unmatched functionality in a line of high-performance balances unlike any other on the market.

Standard 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. 3×3 filtering setup ensures fast and stable weighing results. 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 a 3 level adjustable angle display make Explorer the easiest to use, most advanced balance in its class today.
- **Ingenious Design**—The base and display separate for maximum flexibility in any work area. Draftshield models isolate the weighing chamber to enhance stability and speed results while offering maximum accessibility through the flip-top and expansive side doors. Hands-free entry is available with optional automated side doors.
- **Practical Features**—Explorer has four user-programmable touch free sensors to minimize cross contamination and wear and tear normally associated with repeatedly touching the balance. The Explorer EX...M Models have been designed and verified to meet or exceed the Class I and II accuracy requirements in accordance with EC Directives and EN45501.

Explorer[®] Analytical, Precision, and High Capacity Balances

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 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, humidity and accidental spills/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, 145 mm 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
- 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 touch screen input commands as well as the indication of the check weighing status







Ingenious DRAFTSHIELD

Explorer's draftshield provides ample access and visibility to the weighing chamber through the versatile top door and side sliding doors with automated option and antistatic coated glass. 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 model has a new function for automatically opening drafshield doors without touching the balance. It helps to eliminates sample residue transfer and contaminations.
- The unique top door has dual function which offer sliding and flip top opening mode.
- Side doors seamlessly glide on top-mounted bearings helping to prevent any potential bind up when balance is left uncleaned
- Gain access to the weighing chamber with the flexible top door which offers unobstructed access to the weighing chamber through its frameless, flip-top design which can also be opened by sliding the glass perpendicularly
- The expansive side entry (160 mm \times 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 four touchless sensors for hands-free operation of print, calibration, tare, automated draftshield doors and other selectable functions

Hands-free operation

with your free hand.

- -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

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











Explorer[®] Analytical, Precision, and High Capacity Balances

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



External Calibration Models Available

 Select precision models feature traditional external calibration in which external weights are used to calibrate the balance to ensure accuracy. User defined calibration weight values offer the greatest flexibility during the calibration process.

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 guides users through the weighing process
- User information menu allows users quickly view and learn more about the available balances features
- Up to 13 operating languages make Explorer's Intuitive User Setup truly universal

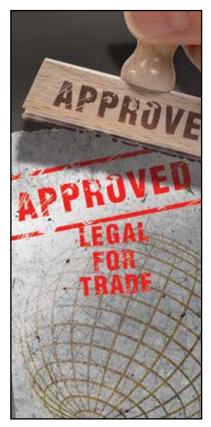
Practical APPROVALS

Explorer EX...M Models are designed and engineered to meet stringent OIML and NAWI Directive (Non Automatic Weighing Instruments) requirements for use in legal and prescribed applications such as in pharmaceutical laboratories, jewelry stores or QC laboratories. The Explorer EX...M Models have been designed and verified to meet or exceed the Class I and II accuracy requirements in accordance with EC Directives and EN45501.









Ingenious MODULAR DESIGN

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

- Display features:
 - -3 level adjustable angle display
 - -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 3 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 (sold separately)
- —Cable storage system

Adjustable rolling feet accessory

 Allows for simple and quick movement and relocation of the balance (High Capacity models only)



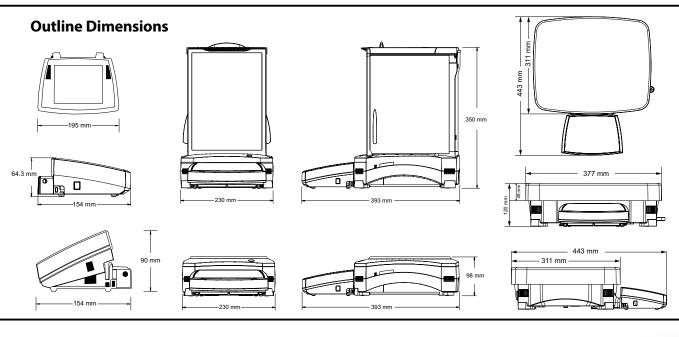




Shown with optional tower mount







Explorer[®] Application Software

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.



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

Pipette Adjustment*

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

Check pipette values by weight





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

Check Weighing



table.

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.



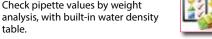
SOC

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

*Pipette Adjustment App not available on High Capacity models.









Explorer[®] High Capacity Balances

High Capacity Models

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

- 145 mm color VGA touch screen optimizes viewing and menu navigation
- Two sensors on display offer hands-free operation
- The display can be separated from the base up to 1.5 meters in order to fit operational needs in almost any workspace. A 3 meter cable is also available when additional flexibility is needed.

Superior protection in rugged or unstable environments

- With a die-cast metal base, 377×311 mm stainless steel pan and thick metal housing, Explorer High Capacity is built to withstand daily wear and tear
- 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, humidity and accidental spills/splashes. (High Capacity models only)

High Capacity Accessories for Added Efficiency

- Adjustable rolling feet provide assistance in easily moving the balance
- Rechargeable battery option provides 10 hours of operation away from a power source

Model	EX12001	EX24001	EX35001				
Type Approved	EX12001M	EX24001M	EX35001M				
Capacity (g)	12000	24000	35000				
Readability (g)	0.1	0.1	0.1				
Verification Interval, Approved Models	1	1	1				
Class, Approved Models	II	II	II				
Repeatability std (g)	±0.1	±0.1	±0.1				
Linearity (g)	±0.2	±0.2	±0.2				
Stabilization TIme	≤1	≤1	≤1				
Sensitivity Draft (PPM/°C)	3	3	3				
Typical Min-Weight (USP, K=3, U=0.1%)	210g	210g	210g				
Typical Min-Weight (GLP K=2, U=0.1%)	140g	140g	140g				
Weighing Applications	Weighing, Percent Weighing, Parts Counting, Check Weighing, Dynamic/Animal Weighing, Filling, Totalization, Formulation, Differential Weighing, Density Determination, Peak Hold, Ingredient Costing, SQC						
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, Approved Models	g, kg, ct						
Pan Size (in/cm)	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	145 mm (diagonal)						
Display Housing (W \times H \times D)	195 × 90 × 154 mm						
Base Housing (W \times H \times D)	377 × 120 × 443 mm						
Communication	Standard RS232, USB, Optional Ethernet, 2 nd RS232						
Operating Temperature Range	10°C to 30°C						
Operating Humidity Range	15% to 80% at 30°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.						
Net Weight	10 kg						
Shipping Weight	12.5 kg						
Shipping Dimensions	665 × 525 × 330 mm						



Shown with optional rolling feet and tower mount

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	_
Type Approved	EX124M/AD	EX224M EX224M/AD	EX324M EX324M/AD	_	EX423M	_	EX1103M	_	EX4202M	_	EX10202M	_	EX10201M
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				
Verification Interval*	— 1mg		—	0.01g	—	0.01g	—	0.1g	—	0.1g	—	0.1g	
Class*	—	I		—	Ш	—	I	—	II	—	I	—	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				
Typical Min-Weight (USP, K=3, U=0.1%)	0.24g	0.24g	0.24g	2.1g	2.1g	2.1g	2.1g	21g	21g	21g	21g	210g	210g
Typical Min-Weight (GLP K=2, U=0.1%)	0.16g	0.16g	0.16g	1.4g	1.4g	1.4g	1.4g	14g	14g	14g	14g	140g	140g
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, Approved Models	_	mg, g	g, ct	_	mg, g, ct	_	mg, g, ct	_	g, kg, ct	_	g, kg, ct	_	g, kg, ct
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												
Pan Size	Ø 90 mm Ø 130 mm 190 × 200 mm												
Calibration		All models feature external calibration. Models except for EX…/E feature AutoCal™ internal 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		145 mm (diagonal)											
Display Housing (W×H×D)	195 × 90 × 154 mm												
Base Housing (W×H×D)	230 × 350 × 393 mm 230 × 98 × 393 mm												
Communication	RS232, USB												
Temperature Range	10°C to 30°C												
Humidity Range	15% to 80% at 30°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											
Net Weight	6.9 kg 4.3 kg 5 kg												
Shipping Weight	9.6 kg			6.8	3 kg	7.4 kg							
Shipping Dimensions	55 × 38.5 × 55.1 cm 55 × 38.5 × 29.1 cm												
* FC Type Approved models													

* EC Type Approved models only

Compliance

• Metrology: EC, OIML, NTEP, Measurement Canada (Class I, 320000e; Class II, 42000e)

• Product Safety: IEC/EN 61010-1:2001; CAN/CSA-C22.2 No. 61010-1-04; UL Std. No. 61010-1 (2nd Edition)

• Electromagnetic Compatibility: EN61326-1:2006 (Class B); C-Tick; FCC, Part 15, Class A ; ICES-003

• Environment: RoHS; WEEE

Accessories

Tower Mount for Display 83021102	
Tower Kit**	
Display Extension Cable	
Density Determination Kit 80253384	
Draftshield Kit (0.01g, 0.1g, excluding	
High Capacity models) 83021084	
Security Device (Cable & Lock)	
Security Device (Laptop Lock) 80850043	
Interface Cable, USB (Type A to B) 83021085	
Second RS232 Kit 83021081	
RS232 Cable and Adapter to 80251992 Printer	

Ethernet Kit
External Rechargeable Battery Pack** 30041295
Foot Switch Kit
RS232 Cable, PC 25 Pin 80500524
RS232 Cable, PC 9 Pin 80500525
SF40A Impact Printer 30045641
Compact Thermal Printer 80251992
Paper for Dot Matrix Printer 12120714
Ink Ribbon for Dot Matrix Printer 12120798
Adjustable Rolling Feet**
OHAUS DAS Software 80253300
Auxiliary Display PAD7 80251396

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**High Capacity models only