



# 2015 Laboratory Products

High Performance Balances & Scales



Adventurer®



MB 45



Pioneer®

*Ingeniously Practical*

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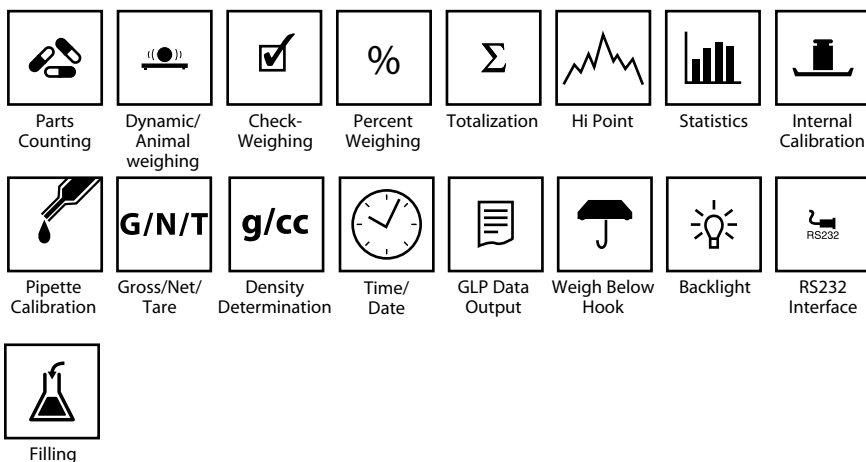
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# Analytical

## Discovery

The Professional's Choice for Analytical Applications

- Metal base and top housing, stainless steel pan and glass draftshield doors with sliding top door
- 2-Line Liquid Crystal Display (LCD ) with backlight
- SmarText Software guides users through application use and balance set up with advanced dual mass AutoCal™
- Repeatability and linearity performance that is 2x better than most semi-micro balances in its class



Model	DV114C	DV214C	DV314C	DV215CD
Capacity (g)	110	210	310	81* / 210
Readability (mg)	0.1			0.01* / 0.1
Repeatability (Std. Dev.) (mg)	0.1		0.2	0.02* / 0.1
Linearity (mg)	±0.2		±0.5	±0.08* / 0.2
Pan Size (in/cm)	Ø 3.5 / Ø 9			
Dimensions (W×H×D) (in/cm)	7.9 × 11.8 × 18 / 20 × 30 × 45.7			

\*DualRange™



Advanced dual mass AutoCal™



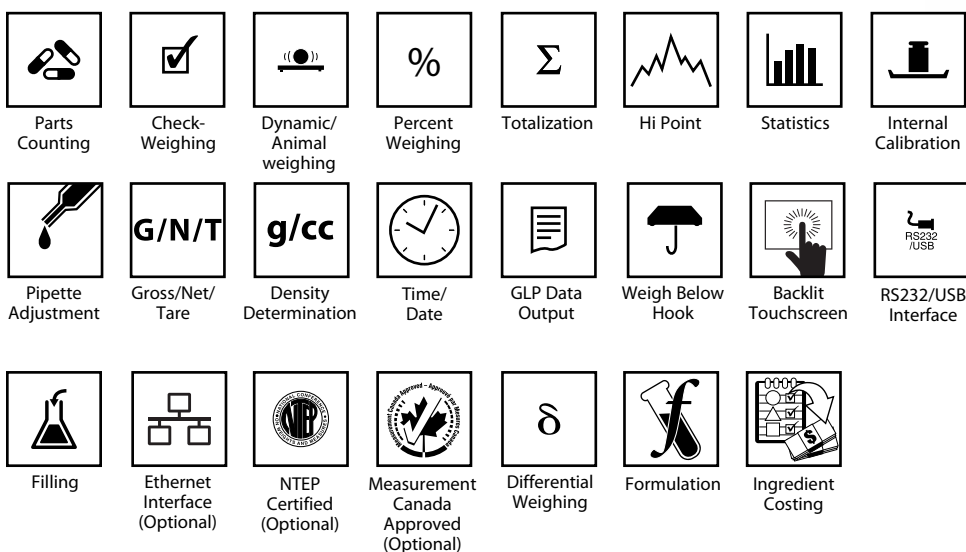
Discovery shown with optional density determination kit.

# Analytical

## Explorer®

### The Industry's Most Easy-to-Use Balance

- Metal base, ABS top housing, stainless steel pan and glass draftshield with flip-top/sliding top door and optional Auto-Door feature for side draftshield doors
- Full-color VGA graphic display (5.7 in /14.cm diagonal) with 4-wire resistive touch screen and modular design that can be separated from weighing base for increased flexibility
- SmarText™ 2.0 software with virtual QWERTY keyboard and numeric keypad to quickly input GLP/GMP data and other application data. Enhanced vibration filtering for better balance stability, as well as AutoCal™ automatic internal calibration to improve accuracy
- 4 programmable touchless sensors, icon-driven application software and weighing chamber light for increased efficiency



Resistive touch screen display quickly responds to operator's touch



Four touchless sensors provide hands-free operation of tare, print, calibration, and other selectable functions.

Model	EX124	EX224	EX324
Automatic Door	EX124/AD	EX224/AD	EX324/AD
Certified Models	EX124N/AD	EX224N EX224N/AD	EX324N EX324N/AD
Capacity (g)	120	220	320
Readability (mg)	0.1		
Certified Readability* (g)	0.001		
Class*	I		
Repeatability std (g)	±0.0001		
Linearity (g)	±0.0002		
PanSize (in/cm)	Ø 3.5 / Ø 90		
Display Housing (W×H×D) (in/cm)	7.7 × 3.5 × 6.0 / 19.5 × 9 × 15.4		
Base Housing (W×H×D) (in/cm)	9.1 × 13.8 × 15.5 / 23 × 35 × 39.3		

\*Certified models only.



New touchless autodoor feature increases efficiency and reduces workplace contamination.



High resolution, 5.7" color TFT display



QWERTY and numeric key pads to quickly input GLP and GMP data



Data transfer function helps to output data directly into leading software applications.



Shown with SF40A impact printers.  
See page 17 for details.



# Analytical

## Adventurer®

### The Most Complete Balance in Its Class

- Die-cast metal bottom housing, ABS top housing with full in-use cover, stainless steel pan and space saving draft shield with two glass panels reducing space required on the lab bench when doors are open
- Full-color WQVGA graphic LCD (4.3in/109mm) touchscreen with six mechanical quick keys
- Intuitive SmarText™ 2.0 software easily guides users through icon based application menus and allows for easy balance set up
- User selectable environmental settings, weighing capacity indicator, front USB host with second USB and RS232 in rear and QuadraStance™ design with four feet that provide weighing stability no matter what surface you are working on



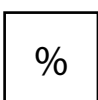
Parts Counting



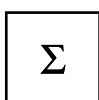
Dynamic/  
Animal  
weighing



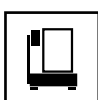
Check-weighing



Percent Weighing



Totalization



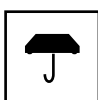
Display Hold



Time/  
Date



Backlit  
Touchscreen



Weigh  
Below  
Hook



Internal  
Calibration



RS232/USB



NTEP  
Certified  
(Optional)



Measurement  
Canada  
Approved  
(Optional)



GLP Data  
Output



Density  
Determination



Formulation

Model w/ InCal™	AX124	AX224	AX324
Model w/o InCal	AX124/E	AX224/E	—
Certified Model	—	AX224N	—
Capacity (g)	120	220	320
Readability (mg)	0.1		
Certified Readability* (g)	—	0.001	—
Class*	—	I	—
Linearity (mg)	± 0.2		
Pan Size (in/cm)	Ø 3.5 / Ø 9		
Dimensions (WxHxD) (in/cm)	13.93 × 13.39 × 9.05/35.4 × 34 × 23		

\*Certified models only.



From USB host port



Full-color touchscreen

# Analytical

**Pioneer®**

## The Best Balance For Basic Laboratory Weighing

- Metal base with ABS top housing, stainless steel pan and a glass draftshield with three sliding doors including top door that are easy to remove for cleaning or storage and a fixed integral weigh below hook
- Backlit Liquid Crystal Display (LCD )
- Includes user selectable span calibration points, stability indicator, Auto Tare, user selectable communications settings and printing options, up front level indicator, menu and calibration locks for improved compliance and custom weighing unit for improved versatility
- Selectable environmental settings and three filter modes in order to ensure accurate operation in a variety of settings



Parts  
Counting



Percent  
Weighing



Weigh  
Below  
Hook



Dynamic/  
Animal  
weighing



Density  
Determination



RS232  
Interface

Internal Calibration Models	PA84C	PA124C	PA224C
External Calibration Models	PA84	PA124	PA224
Capacity (g)	80	120	220
Readability (mg)	0.1	0.1	0.1
Linearity (mg)	± 0.2	± 0.2	± 0.3
Platform Size (in/cm)	Ø 3.54 / Ø 9		
Dimensions (W×H×D) (in/cm)	7.7 × 11.3 × 12.6 / 19.6 × 28.7 × 32		



Selectable environmental settings for working in practically any condition



Removable doors for easy access and cleaning



RS232 interface for data connectivity



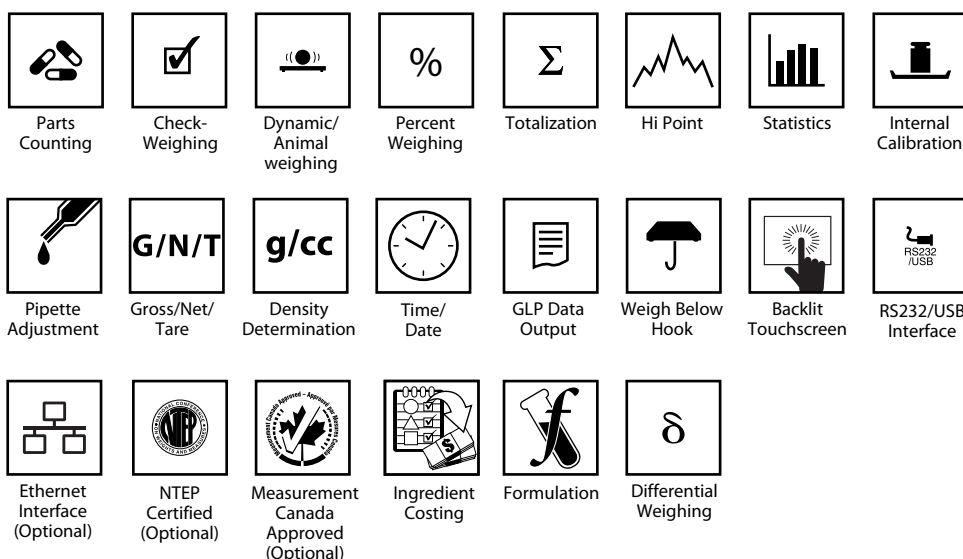
Built-in security bracket

# Precision

## Explorer®

### The Industry's Most Easy-to-Use Balance

- Metal base, ABS top housing, stainless steel pan and a glass draftshield with flip-top on 1mg models
- Full-color VGA graphic display (5.7 in /14.cm diagonal) with 4-wire resistive touch screen and modular design that can be separated from weighing base for increased flexibility
- SmarText™ 2.0 software with virtual QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data. Enhanced vibration filtering for better balance stability, with AutoCal™ automatic internal calibration to improve accuracy as well as external calibration for a more traditional approach
- 4 programmable touchless sensors and icon-driven application software for increased efficiency



Draftshield accessory available

Internal Calibration Model	EX223**	EX423**	EX623**	EX1103**	EX2202	EX4202	EX6202	EX10202	EX6201	EX10201
External Calibration Model	EX223/E	EX423/E	—	—	EX2202/E	EX4202/E	EX6202/E	—	EX6201/E	—
Certified Models	—	EX423N	—	EX1103N	—	EX4202N	—	EX10202N	—	EX10201N
Capacity (g)	220	420	620	1100	2200	4200	6200	10200	6200	10200
Readability (g)	0.001				0.01				0.1	
Certified Readability* (g)	—	0.01	—	0.01	—	0.1	—	0.1	—	0.1
Class*	—	II	—	I	—	II	—	I	—	I
Repeatability std (g)	±0.001				±0.01				±0.1	
Linearity (g)	±0.002				±0.02				±0.1	
PanSize (in/cm)	Ø5.1 / Ø 13				7.5 × 7.9 / 19 × 20					
Display Housing (W×H×D) (in/cm)	7.7 × 3.5 × 6.0 / 19.5 × 9 × 15.4									
Base Housing (W×H×D) (in/cm)	9.1 × 13.8 × 15.5 / 23 × 35 × 39.3				9.1 × 3.9 × 15.5 / 23 × 9.8 × 39.3					

\*Certified models only  
\*\*Includes draftshield





Adjustable viewing angle display



Resistive touch screen display quickly responds to operator's touch



Four touchless sensors provide hands-free operation of tare, print, calibration, and other selectable functions.



Tower mount accessory available



High resolution, 5.7" color TFT display



QWERTY and numeric key pads to quickly input GLP and GMP data

# Precision

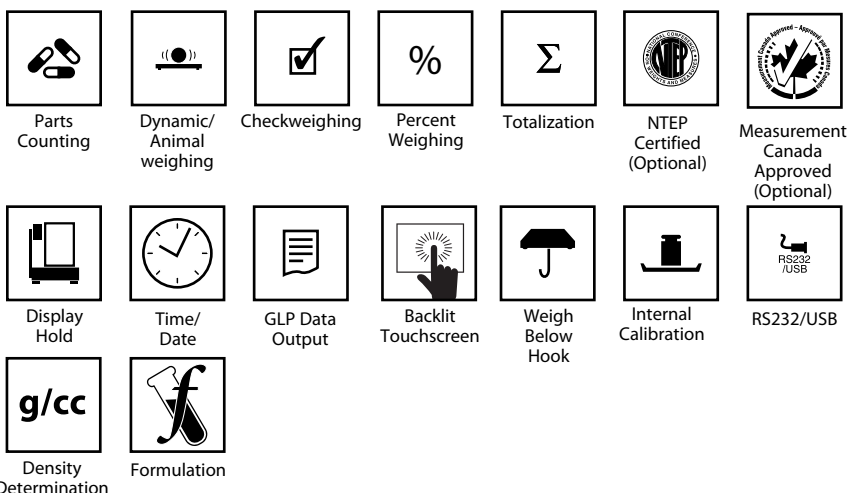
## Adventurer®

### The Most Complete Balance in Its Class

- Die-cast metal bottom housing, ABS top housing with full in-use cover, stainless steel pan and 1mg models included space saving draft shield with two glass panels reducing space required on the lab bench when doors are open
- Full-color WQVGA graphic LCD (4.3in/109mm) touchscreen with six mechanical quick keys
- Intuitive SmarText™ 2.0 software easily guides users through icon based application menus and allows for easy balance set up
- User selectable environmental settings, weighing capacity indicator, front USB host with second USB and RS232 in rear and QuadraStance™ design with four feet that provide weighing stability no matter what surface you are working on



1mg models include draftshield



From USB host port

Model w/ InCal™	AX223	AX423	AX523	AX622	AX1502	AX2202	AX4202	AX5202	AX4201	AX8201
Model w/o InCal	AX223/E	AX423/E	AX523/E	AX622/E	AX1502/E	AX2202/E	AX4202/E	—	AX4201/E	AX8201/E
Certified Models	AX223N/E	AX423N	AX523N/E	AX622N/E	AX1502N/E	AX2202N/E	AX4202N/E	—	—	AX8201N/E
		AX423N/E								
Capacity (g)	220	420	520	620	1500	2200	4200	5200	4200	8200
Readability (g)	0.001			0.01					0.1	
Certified Readability* (g)	0.01			0.1				—	—	1
Class*	II			II				—	—	II
Linearity	±0.002			±0.02					±0.2	
Pan Size w/InCal (in/cm)	Ø 5.1 / Ø 13			6.9 X 7.7 / 17.5 X 19.5						
Dimensions (W×H×D) (in/cm)	13.93 x 13.39 x 9.05 / 35.4 x 34 x 23			13.93 X 3.94 X 9.05 / 35.4 X 10 X 23						

\*Certified models only.

# Precision

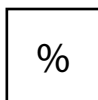
## Pioneer®

### The Best Balance For Basic Laboratory Weighing

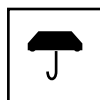
- Metal base with ABS top housing, stainless steel pan, glass draftshield with three sliding doors including top door with 1 mg models that are easy to remove for cleaning and a fixed integral weigh below hook
- Backlit Liquid Crystal Display (LCD )
- Includes user selectable span calibration points, stability indicator, Auto Tare, user selectable communications settings and printing options, up front level indicator, menu and calibration locks for improved compliance and custom weighing unit for improved versatility
- Selectable environmental settings and three filter modes in order to ensure accurate operation in a variety of settings



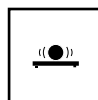
Parts  
Counting



Percent  
Weighing



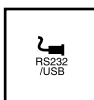
Weigh Below  
Hook



Dynamic/  
Animal  
weighing



Density  
Determination



RS232/USB  
Interface

Model w/ InCal™	PA163	PA323	PA523	PA1602	PA2202
Model w/o InCal	PA163C	PA323C	PA523C	PA1602C	PA2202C
Capacity (g)	160	320	520	1600	2200
Readability (g)	0.001			0.01	
Linearity	±0.002			±0.02	
Pan Size (in/cm)	Ø 4.72 / Ø 9			Ø 7.1 / Ø 18	
Dimensions w/InCal (WxHxD) (in/cm)	7.7 × 11.3 × 12.6 / 19.6 × 28.7 × 32			7.7 × 11.3 × 12.6 / 19.6 × 9.2 × 32	

Model w/ InCal™	PA3202	PA4202	PA2201	PA4201
Model w/o InCal	PA3202C	PA4202C	PA2201C	PA4201C
Capacity (g)	3200	4200	2200	4200
Readability (g)	0.01		0.1	
Linearity	±0.02		±0.1	
Pan Size (in/cm)	Ø 7.1 / Ø 18			
Dimensions w/InCal (W×H×D) (in/cm)	7.7 × 11.3 × 12.6 / 19.6 × 9.2 × 32			



1mg models  
include draftshield



Selectable environmental settings for working in practically any condition



Built-in security bracket






















RS232 interface for data connectivity

# High Capacity

## Explorer®

### The Industry's Most Easy-to-Use Balance

- Die-cast metal base with 2-D protection that 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 and splashes. Includes a large stainless steel pan built to withstand rugged every day use
- Full-color VGA graphic display (5.7 in / 14.cm diagonal) with 4-wire resistive touch screen and modular design that can be separated from weighing base for increased flexibility
- SmarText™ 2.0 software with virtual QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data. Enhanced vibration filtering for better balance stability, as well as AutoCal™ automatic internal calibration to improve accuracy
- 2 programmable touchless sensors, icon-driven application software for increased efficiency with Weigh-below hook included

						
Parts Counting	Dynamic/Animal weighing	Check-weighing	Percent Weighing	Differential Weighing	Filling	RS232/USB Interface
						
Gross/Net/Tare	Time/Date	GLP Data Output	Backlight	Weigh Below Hook	Internal Calibration	Totalization
						
Ingredient Costing	Formulation	SQC	Density Determination	Peak Hold		

Model w/ AutoCal	EX12001	EX24001	EX35001
Capacity (g)	12,000	24,000	35,000
Readability (g)	0.1		
Linearity (g)	±0.2		
Pan Size (in/cm)	14.8 × 12.2 / 37.7 × 31.1		
Dimensions (W×H×D) (in/cm)	14.84× 4.7 × 17.4 / 37.7 x 12 x 44.3		



Shown with optional tower mount and rolling feet

# Moisture Analysis

## MB Series

### Redefining Value in Moisture Analysis

- Halogen or IR heating elements—MB45/35/25 have a fast and even heating halogen lamp, while the MB23 uses a glass free IR heating system. Large 3.5in/90mm pan size for all models
- The MB45/35 utilizes a dot matrix graphic display for quick setup and use. The MB23/25 employ a bright backlit LCD display
- The MB45 features powerful software with an integrated database to store 50 drying procedures along with the ability to track statistical data. All products feature multiple shutoff criteria to save time and cost
- Flexible choices with capacities from 35g to 110g and readabilities of 0.01g to 0.001g. MB45 displays %moisture, %solids, time, weight, temperature, test ID or drying curve; MB35 displays % moisture, time, weight or temperature; MB25 and MB23 display % moisture, % solids, weight (g), temperature, or time



MB 45/ MB 35



Statistics



Moisture Analysis



Multi-language



Time/Date



GLP Data Output



Backlight



RS232 Interface



MB45 Dot Matrix display



Pan Handler

Model	MB45	MB35	MB25	MB23
Capacity (g)	45	35	110	110
Readability	0.01%/0.001g	0.02%/0.002g	0.05% / 0.005g	0.1% / 0.01g
Repeatability (g)	0.05 % (3g sample) 0.015 % (10g sample)	0.18 % (3g sample) 0.05 % (10g sample)	0.2% (3g sample) 0.05% (10g sample)	0.3% (3g sample) 0.2% (10g sample)
Pan Size (in/cm) Diameter	3.5/90 Sample Pan Handler included	3.5/90 Sample Pan Handler included	3.5/90 Sample Pan Handler included	3.5/90 Sample Pan Handler optional
Timer	1-120 Minutes in 10 second increments	1-120 Minutes in 30 second increments	1 - 99 minutes, 30-second increments to 60 minutes	
Heating Element	Halogen	Halogen	Halogen	IR
Temperature Range	50° to 200° C in 1° C increments		50° to 160° C in 5° C increments	
Dimensions (WxHxD) (in/cm)	7.5 x 6 x 14 / 19 x 15.2 x 35		6.5 x 5 x 11 / 17 x 13 x 28	
Displays	% Moisture, % Solids, Time, Weight, Statistics, Temperature, Test ID, Drying Curve	% Moisture, Time, Weight, Temperature	% moisture or % solids or weight (g), temperature, time	



MB25



MB23



MB25/23 Display



# Portable

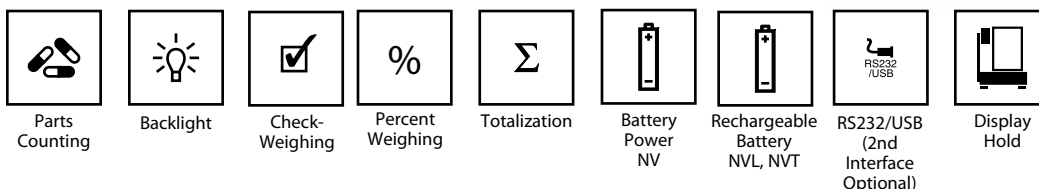
## Navigator®

The Only Scale in Its Class With Touchless Sensors!

- ABS housing with stainless steel pan
- Liquid Crystal Display (LCD) with backlight
- Accurate stabilization in less than one second to provide fast and accurate weighing results, improving operator efficiency, productivity and throughput
- The Navigator Series is designed with two touchless sensors that will free up your hands so you can focus on handling samples. Superior overload protection system allows the scale to withstand loads up to 400% of its rated capacity



Set up the two sensors independently to operate up to 36 combinations of functions without touching the keys.



Navigator	NV212	NV211	NV511	NV1101	NV2101	NV4101	NV5101	NV4000
Capacity (g)	210	210	510	1100	2100	4100	5100	4000
Readability (g)	0.01	0.1	0.1	0.1	0.1	0.2	0.5	1
Linearity (g)	±0.02	±0.2	±0.2	±0.2	±0.2	±0.4	±1	±0.2
Pan Size (W x D) (in/cm)	Ø 4.7 / Ø 12	5.4 × 7.5 / 13.8 × 19			5.4 × 7.5 / 13.8 × 19			
Scale Dimensions (W × D × H) (in/cm)	8 × 8.4 × 2.3 / 20.4 × 21.2 × 58							



Navigator

Navigator XL	NVL511/1	NVL1101/1	NVL2101/1	NVL5101/1	NVL10001/1	NVL20000/1
Capacity (g)	510	1100	2100	5100	10000	20000
Readability (g)	0.1	0.1	0.1	0.5	1	1
Linearity (g)	±0.2	±0.2	±0.2	±1	±2	±2
Pan Size (W x D) (in/cm)	7.6 x 8 / 19.4 x 20.3					
Scale Dimensions (W x D x H) (in/cm)	8 x 11.1 x 2.9 / 20.4 x 28.2 x 74					



Navigator XL

**Includes rechargeable battery!**

Navigator XT	NVT1601/1	NVT3201/1	NVT6401/1	NVT10001/1	NVT16000/1
Certified Models	NVT1600N/1	NVT3200N/1	NVT6400N/1	—	NVT16000N/1
Capacity (g)	1600	3200	6400	10000	16000
Readability (g)	0.1	0.2	0.5	0.5	1
Certified Readability* (g)	0.5	1	2	—	5
Class*	III				
Linearity (g)	±0.2	±0.4	±1	±1	±2
Pan Size (W x D) (in/cm)	6.9 x 9 / 23 x 17.4				
Scale Dimensions (W x D x H) (in/cm)	9.5 x 9.8 x 2.9 / 24 x 25 x 7				



Navigator XT

**Includes rechargeable battery!**

\*Certified models only



NTEP  
Certified  
(Optional)



Measurement  
Canada  
Approved  
(Optional)

# Portable

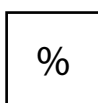
## Scout® Pro

### The Industries Best Portable Balance

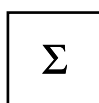
- Compact design with ABS housing and stainless steel pan
- Liquid Crystal Display (LCD)
- Software lockswitch, stability indicator, overload and underload indicators, low battery indicator and auto shut-off
- Span calibration mass included in 200g, 400g and 600g models



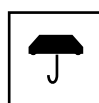
Parts  
Counting



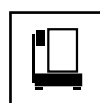
Percent  
Weighing



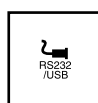
Totalization



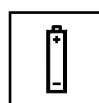
Weigh  
Below Hook



Display  
Hold



RS232/ USB  
Interface  
(Optional)



Battery  
Power



Transportation lock



Internal RS232 or USB port with integrated cable.



Mechanical and software overload protection

Model	SP202US	SP402US	SP602US	SP401US	SP601US	SP2001US	SP4001US	SP6001US	SP6000US
Capacity (g)	200	400	600	400	600	2000	4000	6000	6000
Readability (g)	0.01			0.1					1
Linearity (g)	±0.01		±0.02	±0.1				±0.02	±1
Pan Size (in/cm)	Ø 4.7 / Ø 12				6.5 × 5.5 / 16.5 × 14.2				
Dimensions (W×H×D) (in/cm)	7.56 × 2.13 × 8.27 / 19.2 × 5.4 × 21								



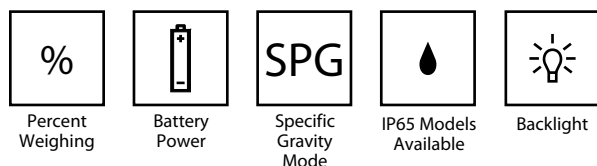
Integrated security bracket accommodates accessory security device.

# Portable

## Valor® 3000 Xtreme

Stainless Steel Design in a High Performance, Easy-to-Use, Portable Scale

- Rugged cast aluminum housing with stainless steel pan; stainless steel housing and stainless steel pan for easy clean up
- Liquid Crystal Display (LCD) with white LED backlight
- SmarText™ user interface guides users through application use and scale setup with 10x capacity rated overload protection
- IP65 models available, NSF Certified, USDA-AMS Accepted and supports HACCP-Certified systems



### WASHDOWN

### WASHDOWN

Model	V31XH202	V31XH402	V31XW301	V31X501	V31XH2	V31X3	V31XH4	V31XW3	V31XW6	V31X6
Capacity (g)	200	400	300	500	2000	3000	4000	3000	6000	6000
Readability (g)	0.01	0.01	0.1	0.1	0.1	1	0.1	0.5	1	1
Linearity (g)	±0.01		±0.2	±0.1		±1	±0.1	±1	±2	±1
Platform Size (in/cm)	Ø 4.7 / Ø 12		5.8 × 6.2 / 14.6 × 15.8	Ø 4.7 / Ø 12	5.8 × 6.2 / 14.6 × 15.8					
Dimensions (W×H×D) (in/cm)	8.5 × 7.3 × 3 / 21.8 × 18.6 × 7.7									



Sandwich Pan



Ice Cream Cone Holder



French Fries/Taco Holder



Carrying Case

# Portable

## Compact

### The Economical Portable Scale

- ABS housing with a large weighing platform that can adequately handle large samples including oversized letters. In addition, the standard stainless steel platform is removable for easy cleaning
- Liquid Crystal Display (LCD)
- Low battery indicator, auto shut-off feature, mechanical and software overload protection, external push button calibration
- AC Adapter (included) or 3 AA batteries (included). Includes superior RF protection for use in production areas

Model	CS200	CS2000	CS5000
Capacity × Readability (g)	200 × 0.1	2000 × 1	5000 × 1
Linearity (g)	±0.1	±1	±1
Pan Size (in/cm)	5.75 × 5.25 / 14.6 × 13.3		
Dimensions (W×H×D) (in/cm)	7.6 × 1.5 × 5.3 / 19.3 × 3.9 × 13.5		



**STAINLESS STEEL PAN AND  
AC POWER PACK INCLUDED!  
A \$40 VALUE!**

## Hand-Held

### Convenient, Compact Weighing in the Palm of Your Hand

- ABS housing, with ABS protective cover and ABS pan small enough to fit in your pocket
- Liquid Crystal Display (LCD)
- Low battery indicator, overload and underload indicators, external push button calibration, button activated luminescent display on HH120 and HH320
- 3 AAA batteries (included) with energy-saving auto shut-off feature to conserve energy

Model	HH120D	HH120	HH320
Capacity × Readability (g)	0-60 × 0.1 60-120 × 0.2	120 × 0.1	320 × 0.1
Linearity (g)	0-60 : ±0.1 60-120 : ±0.2	±0.1	±0.2
Pan Size (in/cm)	3.25 × 3.0 / 8.3 × 7.6		
Dimensions (W×H×D) (in/cm)	5.35 × 3.25 × 0.8 / 13.6 × 8.3 × 2.0		



Small enough to carry in your lab coat pocket!

## CL Series

### Simple Weighing At an Affordable Price

- Low profile and storage is made easy with a stackable design.
- Liquid Crystal Display (LCD)
- Integrated load cell lock protects the weighing cell from damage during storage or transportation
- Includes superior RF protection for use in production areas. Approvals for electrical and emissions include CE listed and FCC Class B Part 15 operation

Model	CL201	CL2000	CL5000	CL5000F
Capacity × Readability (g)	200 × 0.1	2000 × 1	5000 × 1	5000 × 1
Linearity (g)	±0.1	±1	±1	±1
Pan Size (in/cm)	Ø 4.75 / Ø 12			
Dimensions (W×H×D) (in/cm)	5.5 × 1.6 × 7.9 / 14 × 4 × 20			



**CL5000F  
comes with  
carrying case**



# Mechanical

## Triple Beam®

### The Standard for Over 75 Years

- All metal base and beam design with stainless steel pan for improved longevity
- Easy-to-read deep notched and tiered beams
- Positive poise positioning for repeatable results, self-aligning beam design, magnetic damping to minimize oscillation and speed weighing
- Four weighing platforms to choose from



Model	Triple Beam						Dial-O-Gram®		
Model	710-00	710-T0	720-S0	730-00	750-S0	760-00	1610-00	1650-00	1650-W0
Capacity (g)	610						610		2610
Readability (g)	0.1						0.1		
Calibrations:	Front Beam Middle Beam Rear Beam Dial	10g × 0.1g 500g × 100g 100g × 10g —					225g tare 500g × 100g 100g × 10g 10g × 0.1g		
Stainless Steel Pan Size (in/cm) Platform Diameter × Depth	6 × 0.8 / 15.2 × 1.9		—				6 × 0.8 / 15.2 × 1.9	—	
Stainless Steel Scoop L × W × D (in/cm)	—		12 × 6 × 2.75 / 30.5 × 15.2 × 7	—					
Animal Container Diameter × Height (in/cm)	—			9 × 6 / 22.9 × 15.2	—				
Stainless Steel Plate Platform Diameter (in/cm)	—				6 / 15.2		—	6 / 15.2	
Tare Range (g)	—	225	—			225	225		

## Triple Beam Pro®

### Best In Class Triple Beam Balance!

- All metal base and beam design with stainless steel pan for improved longevity
- Easy-to-read deep notched and tiered beams
- Positive poise positioning for repeatable results, spring loaded zero adjust compensator, magnetic damping which minimizes oscillation and speeds up weighing
- Ergonomically designed easy grip carrying handle.
- Includes rod & clamp assembly for below balance weighing necessary for specific gravity determinations and weight set with integrated storage in the balance



Model	TP2611
Capacity	2610g (when using the attachment weight set-included)
Readability	0.1g
Calibrations: Front Beam Middle Beam Rear Beam	10g × 0.1g 500g × 100g 100g × 10g
Stainless Steel Plate Platform Dia.	5.8" × 5.8"
Tare Range	—

## Harvard Trip®

### Two Pan Design - Ideal for Comparative Weighing

- Stainless steel plate
- Easy-to-read deep notched and tiered beams
- 2000g capacity with optional weight set. Built-in sliding masses for easy weighing, magnetic damping to minimize oscillation and speed up weighing, self-aligning beam design and floating agate bearings, counterbalancing knob for quick zeroing, hardened steel edges



Model	1450-SD	1550-SD	1560-SD
Capacity (g)	2000		
Readability (g)	0.1		
Calibrations (g): Top Beam Bottom Beam	10 × 0.1	10 × 0.1 200 × 10	
Stainless Steel Plate (in/cm)	Ø 6 / Ø 15.2		
Tare Range	—	—	225g



# Printer

## SF40A

### OHAUS Value in a Full-Featured, Portable Printer

- Small compact design for improved workplace efficiency; Printer dimensions - 5.5 x 8.1 x 2.9in/140 x 205 x 75mm
- RS232C Connectivity
- Prints 40 characters per line, approximately 1.2 lines per second. Uses standard paper roll (2.26- 2.36in/57.55 – 60mm)
- Ambient operating temperature of 32-104°F/0-40°C



Model	SF40A
Application Modes	Totalization, Statistics (Statistics printout includes number of samples, average value, standard deviation, minimum, maximum, min-max differential, and total sample weight sum)
Power Requirements	AC adapter Input: 100 – 240 VAC, 50 - 60 Hz AC adapter output: 12 VDC, 2.5 A
Interface	32 °F – 104 °F / 0 °C – 40 °C
Net Weight	1.6 lb / 0.7 kg (Paper roll included)
Shipping Weight	1.8 lb. / 0.8 kg

Full functionality with Discovery, Adventurer®, Explorer®, Navigator®, MB Series Moisture Analyzers, Trooper®, Ranger®, Valor® 7000, Defender® bench and floor scales and "T" Series indicators. Statistics and Totalization not supported on other OHAUS products with RS232.

# Application Selector

## Cross Reference Chart

	Analytical & Precision						Portable				
	Discovery	Explorer®	Explorer® Hi-Capacity	Adventurer®	Pioneer®	MB Series	Navigator®	Scout® Pro	Compact	Hand-Held	CL
General Weighing	•	•	•	•	•	•	•	•	•	•	•
Parts Counting	•	•	•	•	•		•	•			
Percent Weighing	•	•	•	•	•		•	•			
Checkweighing	•	•	•	•			•				
Below Balance	•	•	•	•	•			•			
Dynamic Weighing	•	•	•	•	•						
Filling		•	•								
Totalization	•	•		•			•	•			
Gross/Net/Tare	•	•	•								
Statistics	•	•	•			•					
Formulation		•	•	•							
Differential Weighing		•	•								
Display Hold		•	•	•			•	•			
Density Determination	•	•	•	•	•						
Pipette Calibration	•	•									
GLP/GMP	•	•	•	•		•	•				
High Point	•	•	•								
Moisture Determination						•					
SQC		•	•								
NTEP Certified/ Measurement Canada Approved		Optional		Optional			Optional				



## OHAUS Corporation

Headquartered in Parsippany, NJ, OHAUS Corporation manufactures an extensive line of high-precision electronic and mechanical balances and scales that meet the weighing needs of virtually every industry. We are a global leader in the laboratory, industrial, and education channels as well as a host of specialty markets, including the food preparation, pharmacy and jewelry industries. An ISO 9001:2008 manufacturer, OHAUS products are precise, reliable and affordable, and are backed by industry-leading customer support. For additional information, contact OHAUS Corporation at 1.973.377.9000, or visit [www.ohaus.com](http://www.ohaus.com).



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# Ingeniously Practical