## Engineered for Accuracy, Designed for Demanding Applications

The new Explorer Plus (EXP Series) offers a premium weighing performance, compliance support and data traceability. The advanced features take the EXP to the next level by optimizing the user experience. This flagship balance is crafted to meet the most demanding requirements of modern scientific research.

## Unique Features:

- **Intelligent User Experience**

  Seamless setup with motorized leveling, anti-pinch auto-doors, touchless sensors, ionizer and draftshield light. A 7-inch glass touchscreen, chemical protection and 2 customizable status lights.

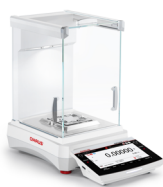- **Supports Compliance for Data Traceability**

  Ensure compliance with 4-level user system, password protection, and 100k internal system log. The time synchronization NTP function confirms data traceability to meet pharmaceutical regulations.

- **Effortless System Integration**

  Advanced communication capabilities with straightforward integration to Laboratory Information Management Systems (LIMS), and hassle-free data transfer with driverless HID for easy data input.

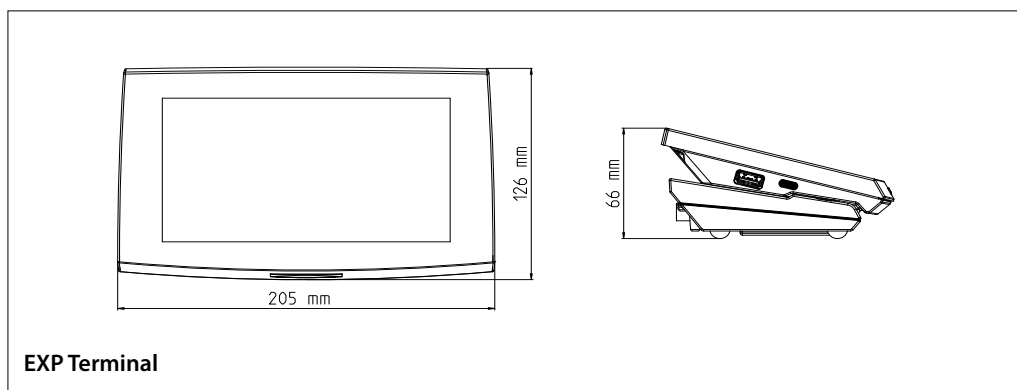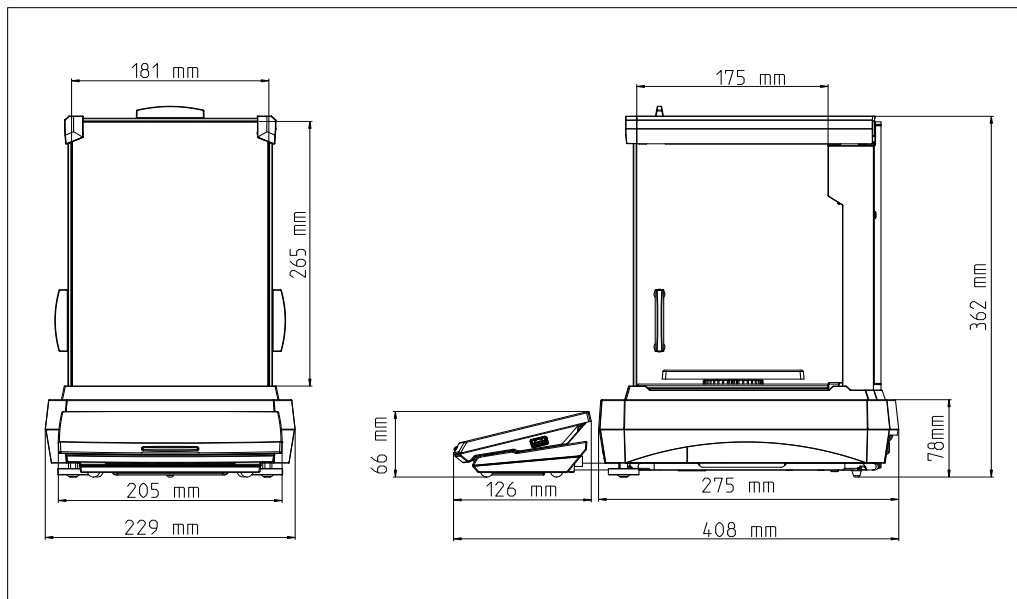# EXPLORER PLUS™ *Semi-Micro Balances*

## Specifications

| Model | EXP125D/AD | EXP125/AD | EXP225D/AD | EXP225/AD |
|---|---|---|---|---|
| Capacity | 82 g / 120 g | 120 g | 120 g / 220 g | 220 g |
| Readability d, Fine Range | 0.01 mg | 0.01 mg | 0.01 mg | 0.01 mg |
| Readability d, Full Range | 0.1 mg | 0.01 mg | 0.1 mg | 0.01 mg |
| Repeatability (sd.), ≤5% of Full Load Typical | 0.01 mg | 0.01 mg | 0.01 mg | 0.01 mg |
| Repeatability (sd.), 5% of Full Load to Fine Range Max | 0.02 mg | 0.02 mg | 0.02 mg | 0.02 mg |
| Repeatability (sd. ), Fine Range Max to Full Range | 0.1 mg | 0.02 mg | 0.1 mg | 0.02 mg |
| Linearity Deviation Typical | 0.06 mg | 0.06 mg | 0.06 mg | 0.06 mg |
| Linearity Deviation | 0.2 mg | 0.1 mg | 0.2 mg | 0.1 mg |
| Span Calibration Points | 25g, 50g, 75g, 100g | | 50g, 100g, 150g, 200g | |
| Weighing Units | g, mg, ct, N, oz, ozt, Grain, dwt, mo, msg, tcl, tola, baht, Custom 1, Custom 2 | | | |
| Applications | Basic Weighing, Parts Counting, Check Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Totalization, Formulation, Differential, Density Determination, Peak Hold, Pipette Adjustment, SQC, Fill Weight Variation, Flow Rate Control | | | |
| Stabilization Time (typical) | 0.1 mg: ≤2 seconds, 0.01 mg: ≤ 5 seconds | | | |
| Sensitivity Temperature Drift (ppm/°C) | 0.8 | | | |
| Min-Weight (typical) (K=2, U=1%) | 2 mg | | | |
| Min-Weight (typical) (USP, K=2, U=0.10%) | 20 mg | | | |
| Min-Weight (optimal) (USP, K=2, U=0.10%, SRP≤0.41d) | 8.2 mg | | | |
| Terminal Display | 7-inch TFT 16.7M Color Touch Screen with Glass Overlay, Detachable Terminal | | | |
| Display Resolution | 800 x 480 Pixels | | | |
| Communication | USB Host (Type A) x 2, USB Device (Type B) x 1, USB Device (Type C) x 1 Ethernet (RJ45) x 1, RS232 x 1; Optional Wi-Fi, Bluetooth Dongle | | | |
| Leveling System | Motorized Leveling System with Digital Leveling Bubble | | | |
| Power Supply | AC Adapter Input: 100-240 VAC 0.5A 50-60 Hz AC Adapter Output: 12 VDC 1.5A | | | |
| Weighing Pan Size | Aero Pan 80mm x 80mm | | | |
| Built-in Ionizer | Standard | | | |
| Environmental Sensor (Load Cell) | Temperature Sensor, Relative Humidity Sensor (RH), Air Pressure Sensor | | | |
| Touchless Sensor | 2 Touchless Sensors on the terminal | | | |
| Draftshield with anti-static coating | Standard | | | |
| Automatic Draftshield Door Function | Standard, Open Range: 1/2 open and fully open | | | |
| Draftshield & Terminal Status Lights | Standard, 7-color Selectable | | | |
| Sample Spotlight | Standard, White | | | |
| Terminal Housing Dimensions (W x D x H) | 205mm x 126mm x 66mm | | | |
| Base Housing Dimensions (W x D x H) | 229mm x 275mm x 78mm | | | |
| Assembled Dimensions (W x D x H) | 229mm x 408mm x 372mm | | | |
| Shipping Dimensions (W x D x H) | 415mm x 630mm x 561mm | | | |
| Net Weight | 7.8 kg | | | |
| Shipping Weight | 12.0 kg | | | |

# EXPLORER PLUS™ *Semi-Micro Balances*

## Outline Dimensions

181 mm
265 mm
205 mm
229 mm

175 mm
362 mm
66 mm
78mm
126 mm
275 mm
408 mm

126 mm
66 mm
205 mm

**EXP Terminal**

## Approvals

• **Product Safety:** IEC/EN 61010-1; CAN/CSA C22.2 61010-1; UL 61010-1

• **Electromagnetic Compatibility:** IEC/EN 61326-1 Class B, Basic Environments; FCC Part 15 Class A;Canada ICES-003 Class A

# EXPLORER PLUS™ *Semi-Micro Balances*

## Accessories

| Item No. | 30944360 |
|---|---|
| Accessory Name | Bluetooth Printer, Impact, SF40A/BT |

| Item No. | 30064203 |
|---|---|
| Accessory Name | Printer, Impact, SF40A |

| Item No. | 31059238 |
|---|---|
| Accessory Name | Fingerprint scanner FIN-100A |

| Item No. | 31059239 |
|---|---|
| Accessory Name | BT dongle and Wi-Fi dongle LM842 |

| Item No. | 30130302 |
|---|---|
| Accessory Name | Static Ionizer, ION-100A |

| Item No. | 31059237 |
|---|---|
| Accessory Name | Weighing Kit |

| Item No. | 80253384 |
|---|---|
| Accessory Name | Density Kit, Solids |

| Item No. | 83034024 |
|---|---|
| Accessory Name | Sinker, Glass, Liquid, Density Kit |

| Item No. | 30252145 |
|---|---|
| Accessory Name | Pipette Evaporation Trap |

| Item No. | 30078078 |
|---|---|
| Accessory Name | Terminal Extension Cable, RS422, 9 m |

| Item No. | 12120799 |
|---|---|
| Accessory Name | SF40A Paper roll (57,5mm 2pcs) |

| Item No. | 30529322 |
|---|---|
| Accessory Name | SF40A Ink Ribbon Cassette |