

Root[®]

With Noninvasive Blood Pressure and Temperature Monitoring



Root offers multiple high-impact innovations for use across the continuum of care:

- > Integrates Masimo's breakthrough measurements from the Radical-7[®] handheld or Radius-7[®] patient-worn monitor
- > Instantly interpretable, high visibility display with intuitive, multi-touch navigation for easy and adaptable use in hospital environments
- > Flexible measurement expansion through Masimo Open Connect[™] (MOC-9[™])
 - > ISA[™] CO₂ capnography for sidestream monitoring featuring Nomoline[™] technology for cost-effective consumables
 - > Designed to enable third-party measurement expansion
- > Integrated noninvasive blood pressure and temperature monitoring
- > Automates the calculation of Early Warning Scores (EWS)
- > Root with Patient SafetyNet^{™*} version 5.0.0.0 or higher enables clinicians to document vital signs data, measured from supported devices or manually entered on Root, in a patient's Electronic Medical Record (EMR)

* The use of the trademark PATIENT SAFETYNET is under license from University Health System Consortium.



Customizable for a Variety of Healthcare Environments

- > Automated charting of patient data in hospital EMR system via Masimo Patient SafetyNet or Iris Gateway™
- > Communicates alerts and alarms wirelessly to Masimo Patient SafetyNet for hospital-wide remote clinician notification

Alarms

Audible and visual alarms on both Root and Radical-7 for quick identification of alarming parameters

Blood pressure accessories

Compatible with a wide variety of disposable and reusable cuffs engineered for reliability and patient comfort



Display

LCD color multi-touch display with several layout options to suit clinician workflow preferences

Parameter and waveform views

Customizable views support quick assessment of patient status and provide pertinent data at a glance

Noninvasive blood pressure and temperature

Spot-check and customizable interval measurement options

Early Warning Score

EWS calculation at the bedside

Root Specifications

MEASUREMENT ACCURACY

NIBP

Between 0 mmHg and 300 mmHg ±3 mmHg

Temperature

Between 80° F and 110° F (26.7° C and 43.3° C) ±0.2° F (0.11° C)

DISPLAY RANGES

NIBP (Adult, Pediatric, Neonatal)

Systolic 40-260 mmHg, 40-230 mmHg, 40-130 mmHg

Diastolic 20-200 mmHg, 20-160 mmHg, 20-100 mmHg

MAP 26-220 mmHg, 26-183 mmHg, 26-110 mmHg

Temperature

Temperature 80-110° F (26.7-43.3° C)

ELECTRICAL

Root

AC Power Requirements 100-240 VAC, 47-63 Hz

Power Consumption 180 VA (Max)

Fuses Each With2 Amp, Fast Acting, Metric, (5x20 mm), 250 V

Battery

Type 10.8 V Lithium Ion (Nominal)

Capacity 4 Hours⁵

Maximum Charging Time 4 Hours

ENVIRONMENTAL

Operating Temperature 50° F to 104° F (10° C to 40° C)

Transport/Storage Temperature -4° F to 122° F (-20° C to 50° C)

Operating Humidity 15% to 95%, Non-condensing

Storage Humidity 15% to 95%, Non-condensing

Operating Altitude 500 mbar to 1060 mbar

-1,000 ft to 18,000 ft
(-304 m to 5486 m)

PHYSICAL CHARACTERISTICS

Weight 7.42 lbs (3.37 kg)

Dimension 11 in x 10.5 in x 5.5 in (27.94 cm x 26.67 cm x 13.97 cm)

Display

Type Backlit Active Matrix TFT LCD

Resolution 1280 pixels x 800 pixels

Color 24-bit RGB

Size 10.1 in (25.65 cm) Diagonal

Touchscreen

Type Multi-Touch P-Cap

CONNECTIONS

Connector

Ethernet 10/100 MBps (1)

Nurse Call 1/4 -in Round Female (1)

MOC-9 Masimo Connector (3)

Iris RS-232/RJ-45 (4)

USB USB 2.0 (2)

NIBP Male Quick Connect (1)

Temperature MOLEX 52271-0690 (1)

Type (Number of Ports)

⁵This represents approximate run time at the lowest brightness, using a fully charged battery.

Caution: Federal (USA) law restricts this device to sale by or on the order of a physician. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.

Masimo U.S.
Tel: 1 877 4 Masimo
info-america@masimo.com

Masimo International
Tel: +41 32 720 1111
info-international@masimo.com

