

| Root[®]

Expandable, Versatile, and Customisable Patient Monitoring and Connectivity Hub



THE ROOT OF PATIENT CARE



Patient Monitoring and Connectivity Platform

Streamline clinician workflows with **Root**, a versatile, acuity-adaptable, patient monitoring and connectivity platform that integrates noninvasive technologies usually requiring multiple devices.

Masimo rainbow SET™ Pulse CO-Oximetry

Monitor multiple key physiologic parameters continuously and noninvasively on a single device by integrating Masimo's innovative, industry-leading Pulse CO-Oximetry platform into Root.

Measurement Expansion through Masimo Open Connect® (MOC-9®)

Customise Root to fit each patient case, care area, or workflow using MOC-9 ports to integrate additional advanced patient monitoring technologies.

Iris® Platform for Advanced Connectivity and Interoperability

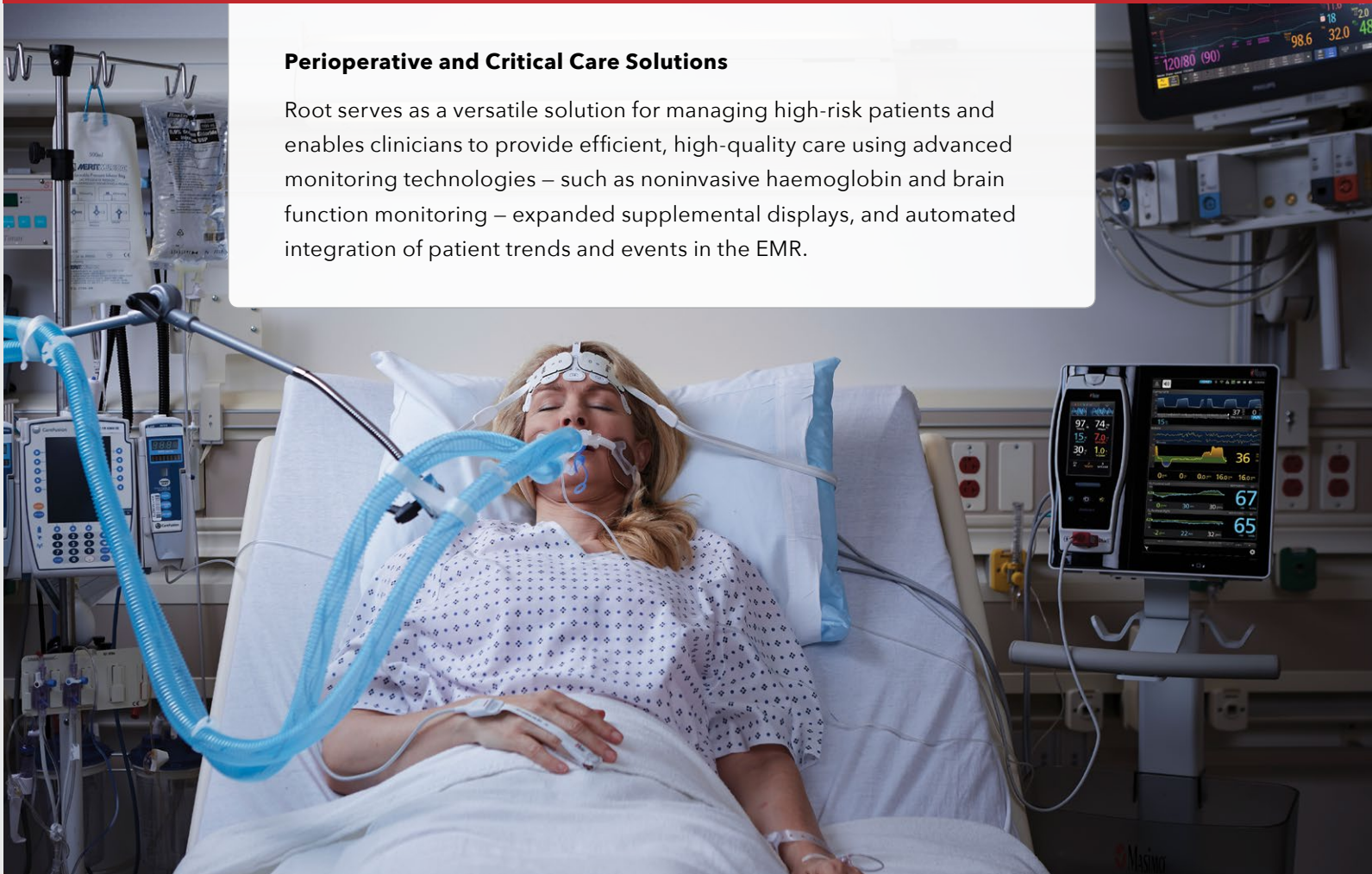
Integrate data from Root and third-party devices using Iris ports for automated charting in electronic medical records (EMR).



General Ward Solutions

Root facilitates patient-centric, streamlined clinician workflows through flexible monitoring solutions that allow clinicians to adapt care to best suit each patient. Advanced connectivity solutions enable continuous supplemental remote monitoring and automated electronic charting.

STREAMLINE AND AUTOMATE WORKFLOWS



Perioperative and Critical Care Solutions

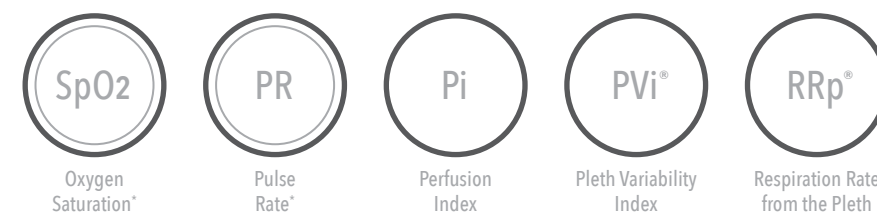
Root serves as a versatile solution for managing high-risk patients and enables clinicians to provide efficient, high-quality care using advanced monitoring technologies – such as noninvasive haemoglobin and brain function monitoring – expanded supplemental displays, and automated integration of patient trends and events in the EMR.

Leading Patient Monitoring Technology

When connected to a **Radical-7®** or **Radius-7® Pulse CO-Oximeter®**, Root provides continuous monitoring using industry-leading Masimo SET® Measure-through Motion™* pulse oximetry. In addition, the platform can be upgraded to provide Masimo rainbow SET technology, allowing clinicians to noninvasively monitor multiple additional physiologic parameters.



Pulse Oximetry



rainbow SET



Flexibility in Monitoring

Radical-7 easily undocks from Root to seamlessly transition to standalone bedside or mobile monitoring



Tetherless Continuous Monitoring

Easily transition patients to the **Radius-7** wearable monitor for tetherless postoperative monitoring

ORi and RRp have obtained CE marking. Not available in the U.S. or Canada.
*Masimo SET® Measure-through Motion technology includes SpO2 and PR.

Automating Clinician Workflows

Bedside Patient and Clinician Association via ADT

Quickly associate clinicians with spot-check sessions and patients with their data on Root using a drop-down list or barcode scanning, pulling from hospital Admit Discharge Transfer (ADT) systems for positive patient association.

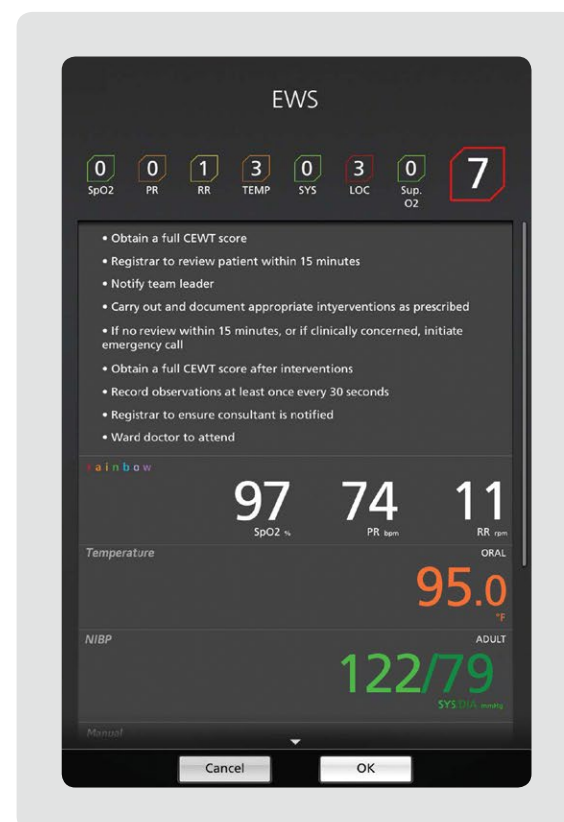


Immediate Electronic Charting at the Bedside

To simplify documentation workflows, Root serves as a single point for the documentation and validation of multiple sources of patient data, allowing clinicians to send Root-measured values, EWS, and up to 30 additional manually entered measurements directly to the EMR.

Automatic, Device-based Calculation

When initiated by a clinician, Root automatically calculates **Early Warning Scores (EWS)** using measured values from Root and clinician-input values. EWS on Root can be customised to support established hospital protocols and configured with up to 14 contributors. Root can house up to 14 different EWS configurations.



Flexible Measurement Expansion through Masimo Open Connect (MOC-9)

MOC-9 "plug-and-play" modules expand Root's monitoring capabilities with additional measurement technologies, allowing clinicians to connect the most applicable solutions for each individual patient.



SedLine® brain function monitoring utilises four simultaneous channels of EEG data to provide continuous information about the state of the brain under anaesthesia

- PSi
- EMG
- SEFL
- SEFR
- ARTF



O3® regional oximetry uses near-infrared spectroscopy (NIRS) to enable monitoring of tissue oxygen saturation (rSO2) in the brain

- rSO2
- Δbase
- AUC
- ΔSpO2



NomoLine® capnography provides sidestream CO2 and multi-gas monitoring with moisture removal technology

ISA™ CO2 Module

- EtCO2
- RR
- FiCO2

ISA AX+ Module

- EtCO2
- RR
- FiCO2
- N2O
- Agent ID

ISA OR+ Module

- EtCO2
- RR
- FiCO2
- N2O
- O2
- Agent ID



Measurement expansion allows other companies to expand the Root platform with their own measurements, while following Masimo's established development and validation process.

Iris Connectivity

Iris ports on Root provide built-in integration with numerous third-party devices, including anaesthesia machines, infusion pumps, ventilators, and beds. Further, the Iris connectivity platform automates electronic charting, improving clinician workflows through the reduction of manual data entry.



* Third-party devices with appropriate networking capabilities can communicate directly with Patient SafetyNet or Iris Gateway.

† The use of the trademark Patient SafetyNet is under license from University Health System Consortium.



Customisation Simplified

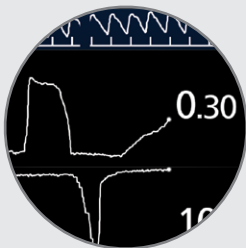
Root features an instantly interpretable, high-visibility display with intuitive multi-touch navigation for easy and adaptable use in hospital environments. Clinicians can customise the Root display to feature the most applicable data for the current patient or case.



Derive insights from plethysmographic, capnography, EEG, and acoustic respiration rate **waveforms**

Configure settings to easily switch between patient populations with up to eight custom **Profiles**

Customise the display to suit your clinical needs



Review up to 96 hours of parametric data in Trend View



View pertinent data at a glance in Analog view



Move parameters from the well to the larger, main display using the multi-touch screen

Customise the display to expand visibility of data from MOC-9 modules



rainbow® measurements can be displayed on a docked Radical-7, allowing pertinent data from MOC-9 modules to be more easily viewed on the main Root screen

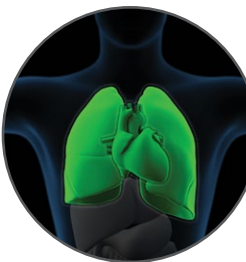


Dynamically resize and rearrange channel layout directly on the multi-touch screen by pressing at the top of any channel window

High-resolution, LCD, multi-touch display with multiple layout options to suit clinician workflow preferences

Session management allows clinicians to associate parametric data with specific patients and export session information without connecting to an EMR system

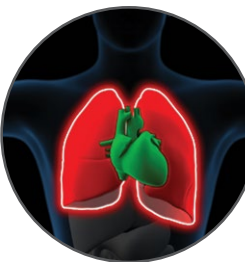
Alarm Status Visualiser provides a three-dimensional, anatomical image that associates device measurements with alarm status



No Alarm



Approaching Alarm



Alarm State



Advanced Parameters Provide Greater Visibility into a Patient's Physiologic Status

SpHb

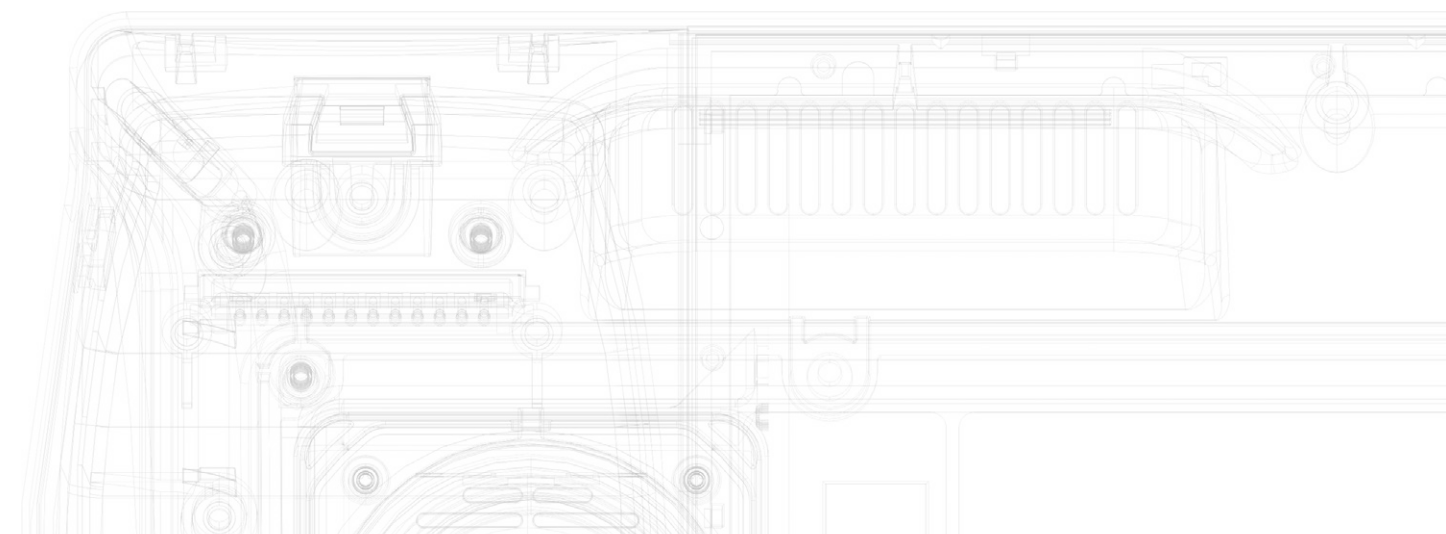
Noninvasive and Continuous Total Haemoglobin monitoring, **SpHb**, provides real-time visibility to changes, or lack of changes, in haemoglobin between invasive blood samples.

PVi

Pleth Variability Index, **PVi**, is a noninvasive dynamic parameter that helps clinicians monitor fluid responsiveness in mechanically ventilated patients.

ORi

Oxygen Reserve Index, **ORi**, is a trend index that extends oxygen monitoring to patients on supplemental oxygen. ORi alongside SpO₂ monitoring may provide expanded visibility when titrating oxygen in the moderate hyperoxic range and potential advanced warning of impending desaturation.





A More Complete Brain Monitoring Solution

Root with **Next Generation SedLine brain function monitoring** helps clinicians monitor the state of the brain under anaesthesia with bilateral data acquisition and processing of four leads of electroencephalogram (EEG) signals, enabling continuous assessment of both sides of the brain. Next Generation SedLine features an enhanced signal processed EEG index (PSi) with less susceptibility to EMG interference and improved performance in low power EEG cases, as well as an enhanced Multitaper Density Spectral Array (DSA).

Root with **O3 regional oximetry** uses near-infrared spectroscopy (NIRS) to enable monitoring of tissue oxygen saturation (rSO₂) in the brain, helping clinicians monitor cerebral oxygenation in situations in which pulse oximetry alone may not be fully indicative of the oxygen in the brain.

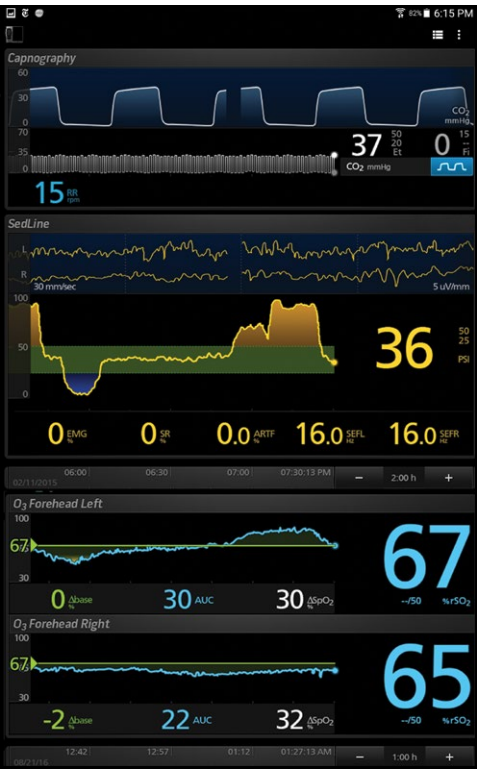
When used together on Root, SedLine and O3 provide a more complete picture of the brain on an instantly interpretable, integrated display.



Expanded Visibility of Patient Data

Kite® expands visibility by providing a supplemental display of patient data from Root with the ability to configure the layout differently from Root.

By allowing customisation of what can be displayed, Kite allows clinicians to focus on the most pertinent data for each stage of a patient's journey, empowering them to make more informed decisions.



Kite displays data from modules connected through MOC-9 ports to Root, such as SedLine, O3, and NomoLine



Kite displays visual alarms from the patient monitor, providing quick notification of changes in a patient's physiologic status





Remotely Manage Multiple Root Devices Throughout the Hospital

Iris Device Management System (DMS)

- > Intuitive dashboard provides at-a-glance device diagnostic information for multiple Masimo devices
- > Remotely push software upgrades, keeping all devices up to date easily and efficiently
- > Distribute patient profiles, policy files, and network settings to multiple devices in a single step, simplifying the management of device settings

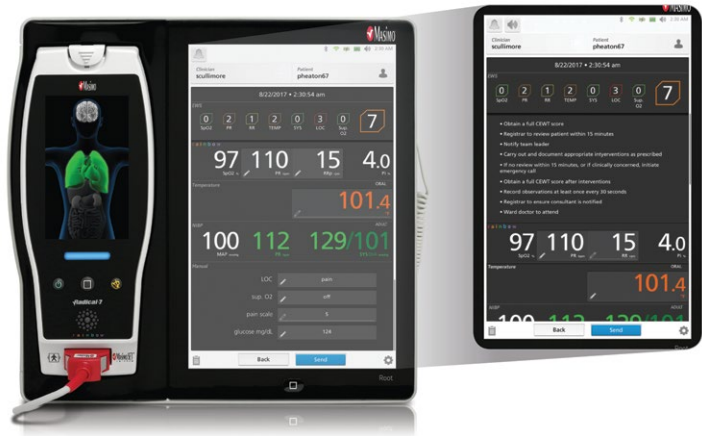




Seamless, Integrated Vital Signs Workflow

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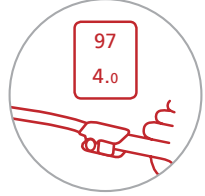
Vital Signs Check, an integrated device mode on Root, automates vital signs data collection and electronic charting, helping streamline workflows and optimise patient data management.



Vital Signs Workflow



1 ADT barcode scanning for patients and clinicians



2 Collect and review measurements



3 Send to EMR with Iris connectivity



Tetherless Postoperative Monitoring

Radius-7 is a small, lightweight, wearable Pulse CO-Oximeter designed to promote patient comfort and ambulation.

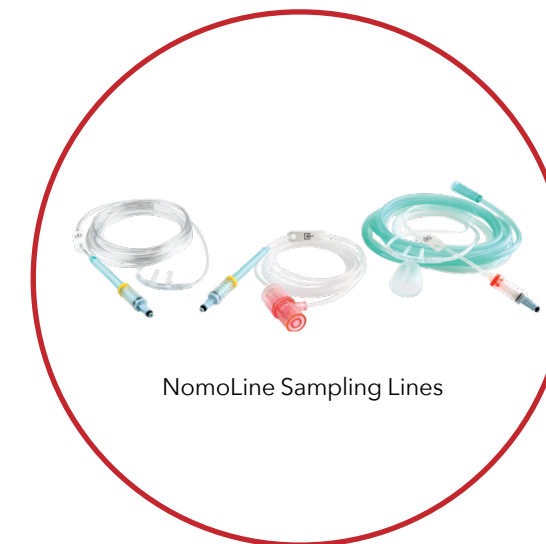
Radius-7 communicates via Bluetooth® to Root for continuous monitoring when in close proximity. In addition, Wi-Fi enables hospital-wide continuous monitoring and remote clinician alarm notification via Patient SafetyNet – even when the patient is not in close proximity to Root.





Expandable Ventilation and Respiration Monitoring Solutions

Root provides multiple options for monitoring a patient's respiratory status, offering clinicians the flexibility to choose the most applicable monitoring method for each patient.



NomoLine Sampling Lines

The **ISA Capnography** module can be connected to Root through MOC-9 for sidestream CO2 and gas monitoring with NomoLine sampling lines.



Respiratory Acoustic Sensor, RAS-45

Acoustic Respiration Rate (RRa) provides noninvasive and continuous monitoring of respiration rate, using an adhesive respiratory acoustic sensor (RAS) to detect the vibrations associated with respiration.

SpHb monitoring with Root is not intended to replace laboratory blood testing. Blood samples should be analysed by laboratory instruments prior to clinical decision making.
ORi and RRp have obtained CE Marking. Not available for sale in the US or Canada. Radius-7 with Wi-Fi is not licensed for sale in Canada.

For professional use. See instructions for use for full
prescribing information, including indications,
contraindications, warnings, and precautions.

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