

Radius VSM™

Patient-worn, Continuous Vital Signs Monitor (VSM)



POWERED BY TRUSTED MASIMO TECHNOLOGY

Acoustic Respiration Rate (RRa®)

- > Continuous Respiration Rate

Continuous Temperature

- > Derives continuous measurement of skin temperature

Masimo ECG

- > Low noise continuous 6 waveform monitoring available (I, II, III, aVR, aVL, and aVF)
- > Lethal arrhythmia detection
- > Pacemaker pulse detection
- > Lightweight, adhesive, pre-connected 3-electrode leadwire set
- > Respiration rate (impedance)

Patient Position and Activity

- > Continuous patient position turn monitoring and notifications
- > Patient posture and head-of-the-bed angle
- > Notifications of patient activity:
 - Upright (standing or sitting)
 - Walking
- > Fall detection

Masimo Noninvasive Blood Pressure (NIBP)

- > Measure on inflation
- > Automatic interval measurements
- > Designed to suppress noise
- > Worn on either arm
- > Disposable, single-patient-use cuffs

Radius VSM

- > Wearable vital signs device
- > Up to 10 hours of battery life
- > 2.6" touchscreen
- > Full waveforms, trends
- > Audible and visual alarms
- > 96 hours of parameter trend data storage
- > Withstands splashing water (IP24)
- > Wi-Fi connectivity to Patient SafetyNet™*
- > Bluetooth® connectivity to Root®

Measure-through Motion and Low Perfusion™† Pulse Oximetry

- > Masimo SET®
- > Oxygen Saturation (SpO₂)
- > Pulse Rate (PR)
- > Perfusion Index (Pi)
- > Pleth Variability Index (PVi®)
- > Respiration Rate from Pleth (RRp®)

Radius VSM: A Connected Solution



* The use of the trademark Patient SafetyNet is under license from University HealthSystem Consortium.

Radius VSM Device Specifications

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| Battery Life | Up to 10 hours [†] |
| Device Weight | 122g |
| Multifunctional Reusable Pod Weight | 20g |
| Wi-Fi | Supports IEEE 802.11 a/b/g/n wireless standard |
| Bluetooth | Supports version BLE 4.2 |

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|--------------------|---|
| Alarm | Supports Alarms (visual & audible) complies IEC 60601-1-8 |
| Ingress Protection | IP24 |
| Ruggedness | 1 meter drop (EN 60601, 3 rd edition; IEC 60601) |
| Standards | ANSI/AAMI EC 12:2000/2015, ANSI/AAMI EC 57:2012; IEC 60601-1:2005/2012, IEC 60601-1-2:2014, IEC 60601-1-6:2013, IEC 60601-1-8:2012, IEC 60601-1-11:2015, IEC 60601-2-27:2011 IEC 80601-2-30:2018, IEC 80601-2-49:2018, ISO 80601-2-56:2017 ISO 80601-2-61:2017, ISO 10993-1:2018, IEC 62304:2015 IEC 62366-1:2015 |

Patient Position and Activity Specifications

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| Incline Angle Measurement Range | -180° to 180° |
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Masimo SET[®] Specifications

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| Accuracy (ARMS [§]) | SpO ₂ : 2% (no motion), 3% (motion), 2% (low perfusion) PR: 3bpm (no motion), 5 bpm (motion) RRp: 3 rpm, ± 1 rpm mean error |
| Recommended Sensors | RD SET CS-1, 1 ft. RD SET CS-2, 2 ft. |
| Connector Type | RD connector |
| Supported Parameters | SpO ₂ , PR, Pi, PVi, RRp |

Masimo Noninvasive Blood Pressure (NIBP) Specifications

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| Blood Pressure Accuracy | Meets ANSI/AAMI SP10 and ISO 81060-2 (Mean difference of ≤ 5mmHg with a standard deviation of ≤ 8mmHg) |
| Diastolic Range | .40–130 mmHg |
| Systolic Range | .60–230 mmHg |
| Placement | Left or Right Upper Arm |
| Measurement Method | Oscillatory, Measure on inflation |
| Module Weight | .111g |

Continuous Temperature Specifications

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| Skin Temperature Accuracy | Within +/-0.54°F in the range of 77°F to 109.4°F |
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Acoustic Respiratory Rate Specifications

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| Accuracy (ARMS) | ≤ 1 rpm (no motion) |
| Measurement Range | 4-70 rpm (adults) |

Masimo ECG Specifications

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| ECG Heart Rate Accuracy | ≤ 2 bpm or ≤ 1% (whichever is greater) |
| Heart Rate Measurement Range | 15-300 bpm |
| Lead Configuration (after HR accuracy) | 6-waveform ECG (using 3 pre-connected lead wires) |
| Available Leads | I, II, III, aVR, aVL, aVF |
| Leads Analyzed | Single lead or multi-lead |
| Premature Ventricular Contractions (PVCs) Rate Display Range | 0-99 PVCs/minute |
| Rhythm/Rate Classification/Detection | Normal Sinus Rhythm, Bradycardia, Extreme Bradycardia, Tachycardia, Extreme Tachycardia, Atrial Fibrillation |
| Lethal Arrhythmia Detection | Asystole, Ventricular Tachycardia, Ventricular Fibrillation |

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| Pacer Detection | Detection Leads: I, II, and III (up to all three) |
| Beat Classification | Normal Ventricular Paced |
| ECG Waveform Display | Radius VSM Root Patient SafetyNet |
| Respiration Rate Accuracy | ≤ 1 rpm mean error |
| Respiration Rate Measurement Range | 4-120 rpm |

Ordering Information

Radius VSM Device and Modules

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| Radius VSM Device, 1/box | 9037 |
| Radius VSM Bedside Charger | 9040 |
| Radius VSM Multi-Functional Reusable Pod | 4888 |
| Radius VSM NIBP Module | 4889 |
| Radius VSM Root Charger | 4784 |

Ready-to-go Configuration Kit

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| Radius VSM Kit [¶] | 9036 |
| Kit Contents | 2 Radius VSM Devices 1 Multi-functional Reusable Pod 1 NIBP Module |

Sensors and Accessories

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| RD SET Adt CS-1, Adult Adhesive SpO ₂ Sensor, 20/box | 4615 |
| RD SET Neo CS-1, Neonatal/Adult Adhesive SpO ₂ Sensor, 20/box | 4886 |
| RD SET Adt CS-2 Adhesive Sensor (2-foot) | 4470 |
| RD SET NEO CS-2 Adhesive Sensor (2-foot) | 4473 |
| Radius VSM- ECG Electrode set, Adult 3-Leadwire, AAMI/AHA, 20/Box | 4842 |
| Radius VSM Disposable NIBP Cuff, Small Adult, 20/box | 4825 |
| Radius VSM Disposable NIBP Cuff, Adult, 20/box | 4826 |
| Radius VSM Disposable NIBP Cuff, Large Adult, 20/box | 4827 |
| Radius VSM RAS-45 Acoustic Respiration Sensor, Adult, 10/Box | 4828 |
| Radius VSM Disposable Arm Band, Large, 20/box | 301027 |
| Radius VSM Disposable Arm Band, Medium, 20/box | 301028 |
| Radius VSM Disposable Arm Band, Small, 20/box | 301029 |

[†] Masimo SET[®] Measure-through Motion technology includes SpO₂ and PR. [‡] The typical battery run time is 10 hours minimum with the following typical configuration: continuous Masimo SET[®], RRa, 6-Lead ECG measurements with body temperature and posture orientation, display is off, Wi-Fi is on, periodic (4 times/hour) NIBP measurement, and no alarm or pulse tone is active. [§] ARMS accuracy is a statistical calculation of the difference between device measurements and reference measurements. Approximately two-thirds of the device measurement fell within ± ARMS of the reference measurements in a controlled study. [¶] Kit does not include Root charger, sensors, cuffs, or accessories. Items must be ordered separately.

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.

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