

Rad-97™ Pulse CO-Oximeter®

Featuring Masimo SET® Measure-through Motion® and Low Perfusion™
Pulse Oximetry with Upgradeable rainbow SET™ Technology



Oxygen Saturation†



Pulse Rate†



Perfusion Index



Pleth Variability Index



Total Hemoglobin



Carboxyhemoglobin



Methemoglobin

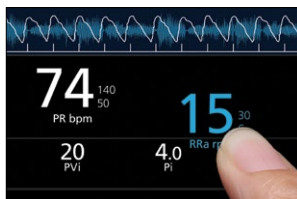


Oxygen Content

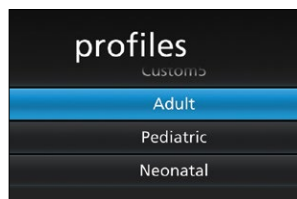


Acoustic Respiration Rate

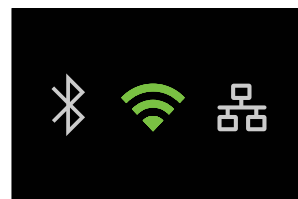
Highly customizable, allowing clinicians to tailor the monitor to best suit their patient monitoring needs



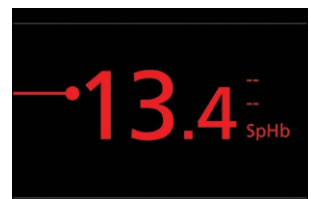
Customizable display allows for quick assessment of patient status and provides pertinent data at a glance



Configurable patient profile settings for a variety of patient populations



Connectivity solutions for electronic charting to EMRs and optional two-way audio/visual communication†



Upgradeable rainbow SET technology allows for continuous monitoring of multiple additional parameters



Features

- **Optional two-way camera** supports video conferencing
- **Bright high-resolution, LCD color display**
- **Ambient light sensor** automatically adjusts screen brightness, optimizing visibility
- **Redesigned connector** with a slim profile design provides tactile feedback upon proper connection
- **Profile icon** changes and home button illuminates in corresponding colors to provide visual indications of the current Profile setting



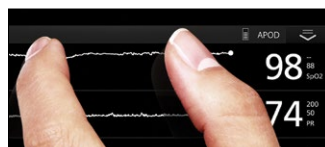
Automatic Display Rotation

ADULT

PEDIATRIC

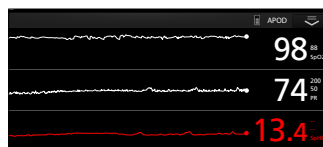
NEONATAL

- **System status light** provides visual indications of alarms and system messages
- **Rechargeable Li-ion battery**, with approximately four hours of power[†]
- **Communication Options**
 - WiFi (802.11abg)
 - Bluetooth® LE
 - Nurse Call Interface
 - Ethernet
 - USB Port
- **AC power connector** (110V/220V, 47-63 Hz) provides a more secure hold between power cable and device
- **Swivel foot** provides additional support when in vertical orientation



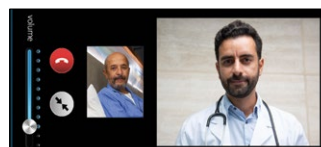
Multi-touch Screen

Adjust the range of trend time displayed and quickly navigate the user interface with intuitive finger gestures



Trend Data

Trend 96 hours of parametric data to analyze patient status over time



Optional Integrated Camera

Observe and communicate with patients remotely from Patient SafetyNet™ view stations



Alarms

Audible and visual alarms for quick identification of alarming parameter

Rad-97 Specifications

PHYSICAL CHARACTERISTICS	
Weight	Approx. 2.0 lbs (<0.91 kg)
Dimensions	22.9 cm x 16.5 cm x 10.2 cm (Approx. 9" x 6.5" x 4")
ENVIRONMENTAL	
Operating Temperature	32-104° F (0-40° C)
Atmospheric Pressure	540-1,060 mBar
ORDERING INFORMATION	
	Part Number
Rad-97	9738
Rad-97 with Camera	9796

COMPLIANCE	
Safety Standard(s)	ANSI/AAMI ES 60601-1, CAN/CSA C22.2 No. 60601-1, IEC/EN 60601-1, 3rd Ed.
Pulse Oximeter Standard(s)	ISO 80601-2-61
Alarm Standard(s)	IEC 60601-1-8
EMC Standard(s)	EN 60601-1-2, Class B
Type of Protection	Class I (AC power) / Class II (Internally Powered)
Degree of Protection	Type BF, Defib Proof-Applied Part
Mode of Operation (per IEC 60601-1)	Continuous Operation
Enclosure Degree of Protection	IP22

[†] Masimo SET® Measure-through Motion technology includes SpO2 and PR. [†] Electronic charting is enabled by Patient SafetyNet or Iris Gateway™ and audio/visual communication requires Patient SafetyNet. The use of the trademark PATIENT SAFETYNET is under license from University HealthSystem Consortium. [†] This represents approximate runtime at the lowest indicator brightness and wireless functionality powered off 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.

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Rad-97™

Pulse CO-Oximeter® with Noninvasive Blood Pressure



Pulse Oximetry



Oxygen Saturation*



Pulse Rate*



Perfusion Index



Pleth Variability Index

Blood Pressure



Noninvasive Blood Pressure

rainbow SET™



Total Hemoglobin



Carboxyhemoglobin



Methemoglobin



Oxygen Content

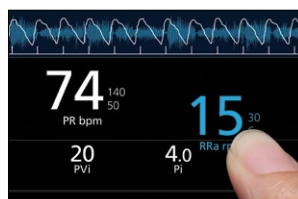


Acoustic Respiration Rate

Featuring rainbow SET Pulse CO-Oximetry



Integrated noninvasive blood pressure (NIBP) monitoring in a standalone device



Customizable display allows for quick assessment of patient status and provides pertinent data at a glance



Connectivity solutions for electronic charting to EMRs and optional two-way audio/visual communication†



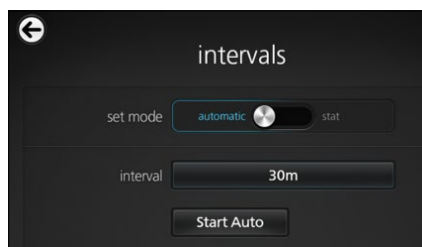
Upgradeable rainbow SET technology allows for continuous monitoring of multiple additional parameters



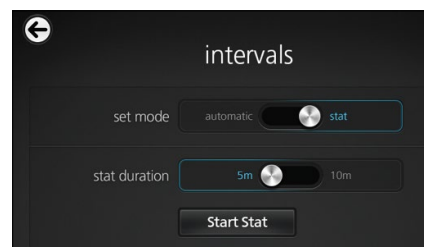
Noninvasive Blood Pressure Monitoring



Spot-check blood pressure measurements can be taken at any time

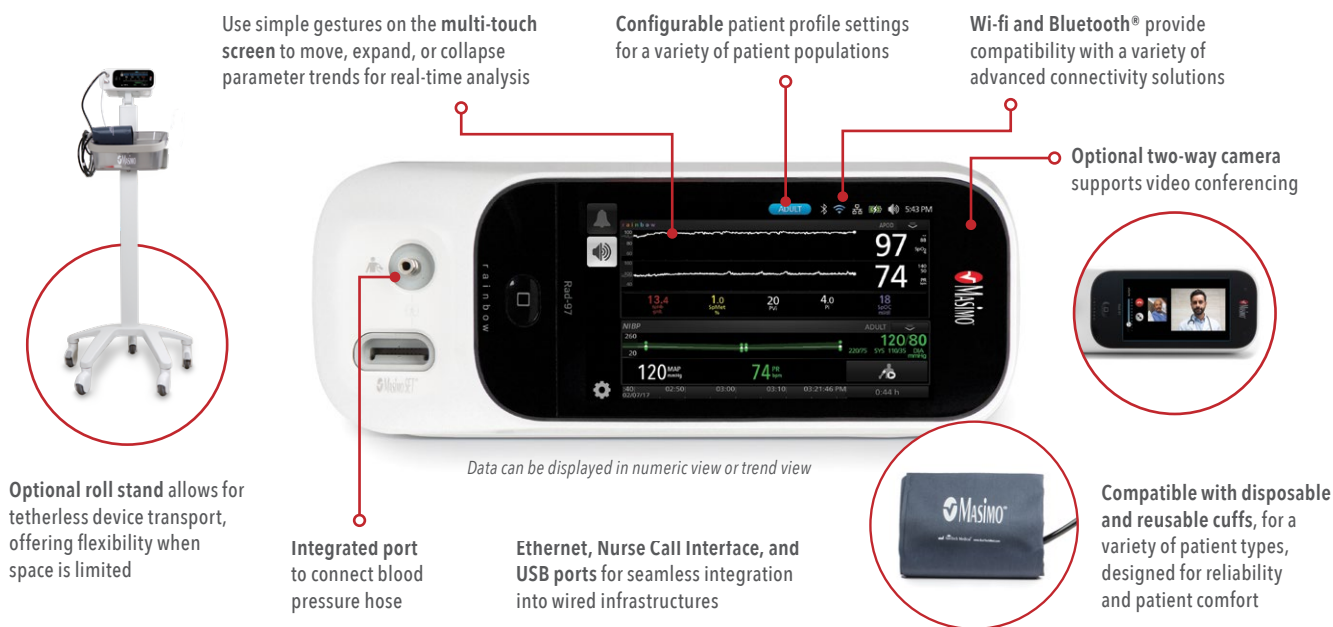


Automatic Interval Mode routinely takes blood pressure measurements once every desired interval, eliminating the need to do so manually



Stat Interval Mode continuously measures blood pressure for a desired duration of 5 or 10 minutes

Features



Rad-97 with NIBP Specifications

MEASUREMENT ACCURACY	COMPLIANCE
NIBP Between 0 mmHg and 300 mmHg ±3 mmHg	Safety Standard(s) ANSI/AAMI ES 60601-1, CAN/CSA C22.2 No. 60601-1, IEC/EN 60601-1, 3rd Ed.
DISPLAY RANGES	Pulse Oximeter Standard(s) ISO 80601-2-61
NIBP (Adult, Pediatric, Neonatal)	Alarm Standard(s) IEC 60601-1-8
Systolic 40-260 mmHg, 40-230 mmHg, 40-130 mmHg	EMC Standard(s) EN 60601-1-2, Class B
Diastolic 20-200 mmHg, 20-160 mmHg, 20-100 mmHg	Type of Protection Class I (AC power) / Class II (Internally Powered)
MAP 26-220 mmHg, 26-183 mmHg, 26-110 mmHg	Degree of Protection Type BF, Defib Proof-Applied Part
PHYSICAL CHARACTERISTICS	Mode of Operation (per IEC 60601-1) Continuous Operation
Weight Approx. 2.3 lbs (<1.05 kg)	Enclosure Degree of Protection IP22
Dimensions 22.9 cm x 16.5 cm x 10.2 cm (Approx. 9" x 6.5" x 4")	ORDERING INFORMATION
ENVIRONMENTAL	
Operating Temperature 32-104° F (0-40° C)	Part Number
Atmospheric Pressure 540-1,060 mBar	Rad-97 NIBP 9797
	Rad-97 NIBP with Camera 9798
	Mounts, carts, cuffs, and other optional accessories sold separately.

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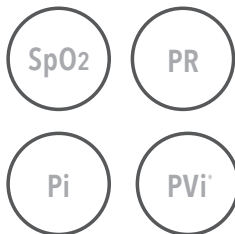


Rad-97™

Pulse CO-Oximeter® with NomoLine™ Capnography



Masimo SET® Measurements



Upgradeable rainbow SET™ Measurements



Capnography Measurements



Continuous SpO2, EtCO2, and respiration rate monitoring in a compact, standalone device provides a more complete picture of a patient's respiratory status



Upgradeable rainbow SET technology allows clinicians to continuously monitor additional parameters and customize patient monitoring to best suit clinical needs



Integrated capnography and acoustic respiration rate (RRa) offer clinicians the flexibility of choosing the most appropriate respiration monitoring method for each patient



Connectivity solutions facilitate electronic charting of patient data in the EMR, automated by Patient SafetyNet™* or Iris Gateway™



Patient SafetyNet enables continuous monitoring of multiple patients from a central view station, as well as mobile clinician notification



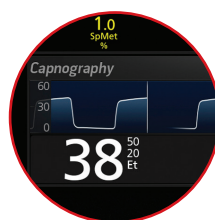
Features



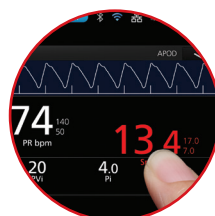
Use simple gestures on the multi-touch screen to move, expand, or collapse parameter trends for real-time analysis

> Ethernet, Nurse Call Interface, and USB ports enable seamless integration into wired infrastructures

Integrated port for direct connection of NomoLine sampling lines



Real-time EtCO₂ waveform provides an easily interpretable display of capnography measurements



Customizable display allows for quick assessment of patient status and provides pertinent data at a glance



Light Emitting Gas Inlet (LEGI) indicator illuminates in different colors to provide visual indicators of capnography module status

Data can be displayed in numeric view or trend view

NomoLine No-Moisture Sampling Lines

- > Multi-use adapters and sampling lines offer cost-effective, convenient sidestream capnography and gas measurements
- > Patented design allows water in the sampling line to evaporate into the surrounding air



Rad-97 with NomoLine Capnography Specifications

NOMOLINE CAPNOGRAPHY MEASUREMENTS

Range

FICO₂ 0–25 vol% / 0–32.5 kPa / 0–244 mmHg
EtCO₂ 0–25 vol% / 0–32.5 kPa / 0–244 mmHg
RR 0 to 150 bpm

Accuracy

EtCO₂/FICO₂, Standard Conditions**

0–15 vol% ± (0.2 vol% + 2% of reading)
15–25 vol% Unspecified
EtCO₂/FICO₂, All Conditions ± (0.3 kPa + 4% of reading)
RR ± 1 bpm

NOMOLINE SAMPLING LINES

Water Handling Sampling lines with proprietary water removal tubing
Sampling Flow Rate 50 ± 10 ml/min***

ORDERING INFORMATION

Rad-97 with NomoLine Capnography **Part Number** 9799

PHYSICAL CHARACTERISTICS

Weight 2.18 lbs (0.99 kg)
Dimensions 9" x 4" x 6.5" (22.9 cm x 10.2 cm x 16.5 cm)

ENVIRONMENTAL

Operating Temperature 32–95° F (0–35° C)
Atmospheric Pressure 540–1,060 mBar

COMPLIANCE

Safety Standard(s) ANSI/AAMI ES 60601-1, CAN/CSA C22.2 No. 60601-1, IEC/EN 60601-1, 3rd Ed., ISO 80601-2-55 (Capnography)
Pulse Oximeter Standard(s) ISO 80601-2-61
Alarm Standard(s) IEC 60601-1-8
EMC Standard(s) EN 60601-1-2, Class B
Type of Protection Class I (AC power) / Class II (Internally Powered)
Degree of Protection Type BF, Defib Proof-Applied Part
Mode of Operation (per IEC 60601-1) Continuous Operation
Enclosure Degree of Protection IP21

* The use of the trademark PATIENT SAFETYNET is under license from the University Health System Consortium. **Valid for dry single gasses at 22 ± 5 °C and 1013 ± 40 hPa. *** Volumetric flow rate of air corrected to standardized conditions of temperature and pressure.

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