Rad-87™
可升级的 rainbow® 技术，用于易于使用的多功能床旁监测仪

选择适合您的临床环境的无创测量 —
血氧饱和度、脉搏率和血流灌注指数，以及总血红蛋白、动脉血氧总含量、Pleth 变异性指数、碳氧血红蛋白、高铁血红蛋白和呼吸频率
Masimo Rad-87

- Equipped with Masimo SET® Pulse Oximetry, already over 100 independent objective research studies.
- With upgradable Masimo rainbow® SET technology platform, you can add total blood hemoglobin (SpHb®) and total arterial blood oxygen content (SpOC™) measurements through software upgradeable to the system.
- Through additional upgrades, you can continuously and non-invasively measure carbon monoxide hemoglobin (SpCO®), methemoglobin (SpMet®), Pleth variability index (PVI®), and respiratory frequency (RRa™).
- Simple, user-friendly design, one touch to activate multiple functions.
- High-contrast display for easy reading, eliminating many common ambiguities of bedside monitors.
- One platform, multiple measurements can be upgraded for all rainbow measurements.
- Can be used bedside or through Masimo Patient SafetyNet remote monitoring and clinical doctor notification system to modify alarms and notifications.
- With predictive index of blood flow (PI) indicating strength of arterial pulse signal and patient risk.
- Compatible with Phillips Vuelink™ device interface module.
- Adaptive Threshold Alarm™ (self-adjusting threshold alarm) option aims to reduce false alarms by dynamically adjusting alarm thresholds based on patient baseline and fixed threshold values.
- Signal IQ® can be used for continuous and low signal-to-noise ratio conditions.
- Supports 802.11a/b/g.

Features:
- Rad-87 has integrated 802.11 wireless device that can communicate wirelessly with Masimo Patient SafetyNet* (a remote monitoring and clinical doctor notification system that helps you ensure the safety of patients in common care areas).
- Immediate access, view, or modify bedside alarm settings.
- Use touch buttons to select APOD®, normal or maximum sensitivity, and immediately validate settings.

Custom configuration options:
- Clear display:
  - System state indicator: even if the clinician cannot see the parameter display screen, it will provide relevant alarm and data collection notification.
- Wireless connection indicator: used as part of Patient SafetyNet to validate network connection.
- Device status indicator: through color-coded confirmation that the device is in the correct area and configured correctly.
- LCD top display: confirms whether the clinical environment has changed, and can be used as part of Patient SafetyNet to display patient information.
- Additional SpO2 and pulse rate not available in the main display, but can be accessed by pressing the corresponding buttons.

Rad-87 has integrated 802.11 wireless, ability to work with Masimo Patient SafetyNet*. The use of Masimo Patient SafetyNet is subject to the approval of University HealthSystem Consortium (University HealthSystem Consortium).
性能

测量范围

![图像](image)

血氧饱和度精度 (SpO₂)

- 成人/婴儿/新生儿
- 60% - 100%
- ±3%

饱和度精度 (SpMet)

- 成人/婴儿/新生儿
- ±2%

脉搏率精度

- 成人/婴儿/新生儿
- ±3 bpm

电池

- 尺寸: 20.8 厘米 x 15.2 厘米 x 7.8 厘米
- 重量: 2.1 磅 (0.908 千克)
- 电池类型: 可充电锂离子电池
- 续航时间: 15 小时

物理特性

- 尺寸: 8.2 英寸 x 6.0 英寸 x 3.0 英寸
- 重量: 15 VA
- 寿命: 4 – 70 次
- 保护等级: JIS T 6001-1
- 操作模式: 连续、平均间隔、平均
- 温度范围: -30°C 至 50°C
- 湿度范围: 5% – 95%
- 操作温度: 5°C 到 40°C (14°F 到 104°F)
- 存储温度: -40°C 到 70°C (14°F 到 158°F)
- 防溅等级: IPX6
- 防护等级: APOD

输出接口

- 数据输出: 模拟/数字输出、输出接口、串行、无线
- 无线装置: Philips Vuelink
- 键盘: 键盘操作按钮、显示键盘
- 显示语言: 多语言
- 电池电源: 电池供电
- 电池类型: 可充电锂离子电池
- 电池寿命: 15 小时

环境

- 操作温度: 5°C 到 40°C (14°F 到 104°F)
- 存储温度: -40°C 到 70°C (14°F 到 158°F)
- 操作湿度: 5% - 95%
- 操作高度: 海拔高度
- 存储压力: 1013 mbar (304 m至 5,486 m)

测试

- 功能测试: 性能测试
- 测试结果: 2% – 15% 电池
- 测试频率: 每个测试周期

Shah N 等人，《Journal of Clinical Anesthesia》2012 年，引用中。