



The **Masimo Radical 7** is a non-invasive plus oximeter monitor. The Machine can monitor arterial oxygen saturation (SpO₂), Pulse rate, and perfusion index. Along with measuring hemoglobin (SpHb) carboxyhemoglobin (SpCO), Total oxygen content (SpOC), methemoglobin (spMET), pleth variability index (PVI), and oxygen reserve index (ORI). The Radical-7 can be used as a standard stand-alone monitor but can also come with the ability to be a handheld monitor. The Pulse oximeter features a touch screen LCD display. This dip can show both numeric value and waveforms for plethysmographic and respiratory.

Features

- Masimo SET clinically proven to satisfy all sensitivity and specificity requirements for pulse oximeter technology.
- Rainbow technology uses 7+ wavelengths of light to continuously and noninvasively measure SpCO, SpMet, and SpHb.
- Respiration rate on the Rad7 can be determined by the RRA or plethysmographic waveform (RRp).
- FastStat tracks rapid changes in arterial O₂.
- Multi-gesture touchscreen interface.
- Automatic screen rotation.



Specifications

Dimensions

Handheld

Height: 8.9" (22.6 cm)
Width: 3.5" (8.9 cm)
Depth: 2.1" (5.3 cm)
Weight: 1.2 lbs (0.54 kg)

Standalone

Height: 3.5" (8.9 cm)
Width: 10.5" (26.7 cm)
Depth: 7.7" (19.6 cm)
Weight: 3.8 lbs (1.73 kg)

Display

Display Update Rate: 1 second
Response Time: < 20 second delay
Type: Backlit Active Matrix TFT LCD
Pixels: 480 dots x 272 dots
Dot Pitch: 0.25 mm

Measurement Ranges

SpO2 (Oxygen Saturation): 0% to 100%
SpMet (Methemoglobin): 0% to 99.9%
SpCO (Carboxyhemoglobin): 0% to 99%
SpHb (Hemoglobin): 0 g/dL to 25.0 g/dL
SpOC (Oxygen Content): 0 ml of O₂/dL to 35 ml of O₂/dL of blood
PR (Pulse Rate): 25 bpm to 240 bpm
PI (Perfusion Index): 0.02% to 20%
PVI (Pleth Variability Index): 0% to 100%
RRa (Respiration Rate): 0 breaths per minute to 70 breaths per minute

Resolution

%SpO2: 1%
%SpCO: 1%
%SpMet: 0.1%
SpHb g/dL: 0.1 g/dL
Pulse Rate: 1 beats per minute
Respiration Rate: 1 breath per minute

Battery

Type: Lithium ion
Capacity: 4 hours
Time: 3 hours

