

MASIMO Rad-5®



A fully-featured hand-held pulse oximeter with the accuracy and reliability of Masimo SET®, perfect for both continuous monitoring and spot-check applications

- > Masimo SET® technology is scientifically and clinically proven to provide accurate pulse oximetry measurements during motion and low perfusion
- > Lightweight, convenient handheld device with a long battery life—over 30 hours on 4 AA batteries
- > User configurable power up default settings
- > Up to 72 hours of trending memory
- > Perfusion Index (PI) indicates arterial pulse signal strength and may be used as a diagnostic tool during low perfusion
- > Signal I.Q.® (SIQ) bar for signal identification and quality indication during motion and low signal to noise situations
- > FastSat® tracks rapid changes in arterial O₂ with unmatched fidelity
- > SmarTone™ beeps in sync with pulse, even under patient motion conditions
- > Sensitivity options: APOD®, Normal, and MAX™
- > Audible and visual alarms for High/Low Saturation, Pulse Rate, Sensor Off & Low Battery
- > Optional protective boot cover with built in table-top stand



Masimo Rad-5



Features

FastSat tracks rapid changes in arterial O₂ with unmatched fidelity.

The Alarm Status Indicator flashes when an alarm condition is present.

Signal I.Q. (SIQ) bar is used for signal identification and quality indication during motion and low signal to noise situations. The LED rises and falls with the pulse, its height indicating signal quality. When Signal IQ is very low, and the SpO₂ and pulse rate values may be suspect, the LED turns red (left graphic).

Perfusion Index (PI) indicates arterial pulse signal strength. The LED bar is highest and green when the quality of the perfused site is best (left graphic); when PI is poor the LED bar is low and turns red (right graphic).



Protective boots are available in your choice of seven different colors.

Performance

MEASUREMENT RANGE	
SpO ₂	1 – 100%
Pulse Rate	25 – 240 (bpm)
Perfusion	0.02% – 20%
SATURATION ACCURACY*	
Saturation	70% – 100%
No Motion	
Adult/Pediatrics	± 2 digits
Neonates	± 3 digits
Motion	
Adult/Pediatrics	± 3 digits
Neonates	± 3 digits
Low Perfusion	
Adult/Pediatrics	± 2 digits
Neonates	± 3 digits
PULSE RATE ACCURACY*	
Pulse Rate	25 – 240 bpm
No Motion	
Adults/Pediatrics/Neonates	± 3 digits
Motion	
Adults/Pediatrics/Neonates	± 5 digits
Low Perfusion	
Adults/Pediatrics/Neonates	± 3 digits
RESOLUTION	
Saturation (%SpO ₂)	1%
Pulse Rate (bpm)	1 bpm
ELECTRICAL BATTERIES	
Type	4 AA Alkaline
Capacity	over 30 hours
ENVIRONMENTAL	
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	40°F to 158°F (-40°C to 70°C)
Operating Humidity	5% to 95%, non-condensing
Operating Altitude	500 mbar to 1060 mbar pressure -1,000 ft to 18,000 ft (-304 m to 5,486 m)

Physical Characteristics

DIMENSIONS	
Handheld	6.2" x 3.0" x 1.4" (15.8 cm x 7.6 cm x 3.6 cm)
WEIGHT	
Handheld	130 oz (0.32 kg)
TRENDING	
Provides up to 72 hours of trending at 2 second resolution.	
Output to PC running Masimo TrendCom™ Utility	
MODES	
Averaging mode	2, 4, 8, 10, 12, 14 or 16 seconds
Sensitivity	APOD, Normal and Maximum
ALARMS	
Audible and visual alarms for high and low saturation and pulse rate (SpO ₂ range 1% – 100%, pulse rate range 25 – 240 bpm)	
Sensor condition, system failure and low battery alarms	
High Priority	799 Hz tone, 5 pulse burst, pulse spacing: 0.250s, 0.250s, 0.500s, 0.250s, repeat time: 10s
Low Priority	432 Hz tone, 3 pulses, repeat time: 5s
Alarm Volume	High Priority: 75 dB (max), Low Priority: 75 dB (max)
DISPLAY/INDICATORS	
Data Display	% SpO ₂ , pulse rate, perfusion index, FastSat, alarm status, alarm silenced status, Signal IQ/pleth bar, battery status, MAX
Type	LED
COMPLIANCE	
EMC Classification	IEC 60601-1-2, Class B
Equipment Classification	IEC 60601-1-1 / UL 60601-1
Type of Protection	Internally powered (on battery power)
Degree of Protection-Patient Cable	Type BF-Applied Part
Rad-5 Mode of Operation	Continuous

*Accuracy is specified for adult human hemoglobin measure at the fingertip. Although animal hemoglobin has similar optical characteristics, the other types of hemoglobin may affect accuracy.

