# Rad-8

### Compact design. Unmatched clinical performance.

- > Featuring Masimo SET® pulse oximetry, proven accurate during motion and low perfusion in more than 100 independent and objective studies
- > The accuracy of Masimo SET pulse oximetry has been shown to reduce false alarms by 95% without missing true clinical events
- > Simple, easy to use interface for quick setup and alarm management with one touch programming
- > Large LED color display is easy to read at a distance
- > Compact, lightweight design is ideal for acute and alternate care settings including long term care facilities, homecare and sleep labs







# Masimo Rad-8

#### **FEATURES**

- Sleep Mode easily configures system to perform bedside studies
- > 2 second averaging in sleep mode
- Home Mode allows for safe and accurate monitoring and trending at home
- RadNet® and RadLink® interface capability for multi-patient remote monitoring
- Perfusion Index (PI) indicates arterial pulse signal strength and may be used as a diagnostic tool during low perfusion<sup>3</sup>
- Low Signal IQ® (SIQ) indicator highlights conditions of low signal quality
- FastSat™ tracks rapid changes in arterial O<sub>2</sub> with high fidelity unlike any other pulse oximeter
- > APOD™ (Adaptive Probe Off Detection) offers the best probe off detection of Masimo's three sensitivity modes - APOD, Normal and MAX sensitivity
- > Adjustable averaging 2 to 16 seconds

- Nurse call interface
- > Up to 7 hours of internal battery life when fully charged
- > 72 hours of trending memory
- Available in horizontal and vertical configurations
- Compatible with Philips Vuelink device interface module

Signal I.Q.® (SIQ) bar is a signal quality indicator, most useful during motion and low perfusion situations. The LED rises and falls with the pulse, its height indicating signal

quality.

When Signal IQ is low, the display turns red, identifying suspect  ${\rm SpO}_2$  and Pulse Rate values.



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

Perfusion Index (PI) indicates arterial pulse signal strength. Pl may be used as a diagnostic tool during low perfusion for the accurate prediction of illness severity. The PI display is green when perfusion index is greater than or equal to 0.5 (left graphic) while the PI display is red when perfusion index is less than 0.5 (right graphic).





One touch alarm limits access



Rad-8 Back Panel: Serial output to compatible devices and nurse call interface.

#### PERFORMANCE & ORDERING INFORMATION:

PERFORMANCE MEASUREMENT RANGE	
SpO <sub>2</sub> Pulse Rate Perfusion Index.	25 – 240 (bpm)
SATURATION ACCURACY Saturation	60% to 80%
No Motion <sup>2</sup> Adults, Infants, Pediatrics	
No Motion Adults, Pediatrics Neonate	
Motion <sup>4</sup> Adults, Pediatrics	
Low Perfusion <sup>5</sup> Adults, Pediatrics Neonate	
PULSE RATE ACCURACY Pulse Rate	25 – 240 bpm
No Motion Adults, Pediatrics, Neonate	
Motion Adults, Pediatrics, Neonate	±5 digits
Low Perfusion Adults, Pediatrics, Neonate	±3 digits
RESOLUTION Saturation (%SpO <sub>2</sub> )	
ELECTRICAL AC Power requirements 11 Power consumption.	00-240 VAC, 47-63 Hz 20 VA Max

ALIERIES	
landheld	
vne	

Туре	
Capacity	
Charging time	8 hours
ENVIRONMENTAL	
Operating Temperature	11°F to 104°F (5°C to 40°C)
Storage Temperature	°F to 158°F (-40°C to 70°C)

Operating Temperature	41°F to 104°F (5°C to 40°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
	-1000 ft to 18,000 ft (-304 m to 5,486 m)
PHYSICAL CHARACTERISTICS	

DIMENSIONS	. 8.2" x 6.0" x 3.0" (20.8 cm x 15.2 cm x 7.6 cm)
WEIGHT	2.1 lbs=.908 kg=32oz
MODES Averaging mode <sup>7</sup>	

## Averaging mode' 2, 4, 8,10, 12, 14 or 16 seconds Sensitivity APOD, Normal and Max<sup>8</sup>

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Data display	% SpO <sub>2</sub> , alarm status, alarm silenced status
	AC power, Signal IQ/pleth bar, perfusion index bar
	battery status, no sensor, sensor of
Type	LEC

COMPLIANCE	
Safety Standard for Medical Equipment	. IEC 60601-1 2 <sup>nd</sup> Edition
	UL 60601-1

			UL 60601-1
		CAN/CSA C22	2.2 No. 601-1
			JIS 0601-1

¹ Hay WW, Rodden DJ, Collins SM, Melera DL, Hale KA, Fashaw LM, Reliability of conventional and new oximetry in neonatal patients. *Journal of Perinatology*. 2002; 22:360-366. | ² The arterial oxygen saturation accuracy during no motion on lya pplies to LNOP® 'Blue SpO<sub>2</sub> adhesive sensors | ³De Felice et al. The pulses oximeter perfusion index as a predictor for high illness severity in neonates. *Eu J Pediatr* 2002; 161:561-562. | ⁴ Continuous rubbing and tapping motions at 2 to 4 Hz at an amplitude of 1 to 2 cm and continuous random frequency motion between 1 to 4 Hz at an amplitude of 2 to 3 cm. | ⁵ Pulse Amplitude > 0.02% and % Transmission > 5%. | ⁵ When using a new, fully charged battery. | ² With FastSat the averaging time is dependent on the input signal. For the 2 and 4 second settings the averaging time may range from 2-4 and 4-6 seconds, respectively. | ⁵ Maximum Sensitivity mode disables APOD, but maximizes measuring ability.

