

Technical Specifications for OxSim OX-1

Physical Dimensions	
Size	2.5" x 2.5" x 1.25" (excluding finger)
Weight	5 ounces (excluding battery)
SpO ₂ Connection	Optical
Power	
Battery Power	1 AA battery (any chemistry)
Battery Life (Alkaline)	8 to 10 hours of simulation time (typical, depending on the oximeters under test) 60 days in sleep mode (unit sleeps after 10 min. with no probe connection)
AC operation	Included 6V DC supply operates over 100-240 VAC, 50-60 Hz
Simulation Accuracy	
Saturation Error	Error in the displayed saturation value should be less than or equal to the specified error of the sensor which is typically +/- 2%, but which can be +/-3% or more for some disposable sensors.
Heart Rate Error	Less than 1bpm
Modes of Operation	
85%	
Saturation	85%
Pulse Rate	80 bpm
Perfusion Index	2.0
95%	
Saturation	95%
Pulse Rate	40 bpm
Perfusion Index	2.0
98%	
Saturation	98%
Pulse Rate	80 bpm
Perfusion Index	2.0
140 BPM	
Saturation	98%
Pulse Rate	140 bpm
Perfusion Index	2.0
Low Perfusion	
Saturation	99%
Pulse Rate	80 bpm
Perfusion Index	0.2
Sensor Type Selection	
#1 Nell/Mas	Used for: All Nellcor Masimo HP/Philips (blue extension cable) HP/Philips (tan soft sensor) GE/Marquette Dräger/Siemens Datascop Datex-Ohmeda (SpO ₂ SW version dated 1990-2001) Protocol Spacelabs Nihon Kohden Nonin Colin Welch Allyn
#2 HP/Ohm	Used for: HP cocoa brown soft sensor, older Ohmeda and older Novamatrix
#3	Datex Ohmeda (SpO ₂ SW version dated 2001-2005)