

Specifications SimSlim Model SL-8

Physical Dimensions									
Size	7"x 1.25" x 0.8" (17cm X 3.2cm X 2.0cm)								
Weight	4 oz (0.1kg)								
ECG/Resp Connection	10 ECG snaps with 4mm and 1/8" banana plug grooves								
IBP Connection	4 X 6 pin Mini-DIN								
YSI Temp Connection	2 X 3.5mm mini stereo jack								
C.O. Connection	Standard 3 pin catheter connection								
Power									
Power Supply	3.6 VDC. 0.030mA max. Internal Lithium Thionyl Chloride battery								
Battery Life	Up to 10 year continuous usage battery life, depending on usage								
Environmental									
Operating	Temperature: 10°C to 35°C (50°F to 95°F), Relative Humidity: 10 to 80% non-condensing, Altitude: 3,000m (9,843ft)								
Storage	-20°C to +60°C (-4°F to +140°F)								
User Interface									
Single Button Operation	Double Click = Change Mode								
	Single Click = Show Mode/Zero IBP/Advance Waveform								
	Hold (2s) = Start C.O.								
Operating Modes									
MODE	ECG	HR	RR	IBP1	IBP2	IBP3	IBP4	C.O.	
ADULT	NSR	60	30	120/80	30/10	125/15	8/2	OFF	
NEO	NSR	140	70	60/30	20/10	60/5	4/1	3 l/m	
HR STEPS	NSR	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	5 l/m	
ARR MODE 1	VARIOUS	VARIOUS	OFF	100mmHg	100mmHg	100mmHg	100mmHg	7 l/m	
ARR MODE 2	VARIOUS	VARIOUS	OFF	200mmHg	200mmHg	200mmHg	200mmHg	OFF	
HR Steps		30, 60, 90, 120, 160, 200, 240 (BPM)							
Respiration Steps		15, 30, 45, 60, 80, 100, 120 (RPM)							
IBP Steps		0, 25, 50, 100, 150, 200, 250 (mmHg)							
ARR MODE 1		NSR with PVCs, VTACH, VFIB, ASYSTOLE							
ARR MODE 2		BIGEMINY, PACER, TRIGEMINY, ST+, 2 nd DEGREE BLOCK, SQUARE WAVE							
ECG Simulation									
Heart Rate Accuracy	± 0.5% of Reading								
Isolated	Yes								
R Wave Size	1mV (lead II) ±10% on NSR mode only								
R Wave Width	35 ms								
Wave Shape	QRS wave								
Connection	10 Snaps, plus 4mm and 1/8" banana plug grooves								
Rates	60, 140, 30, 60, 90, 120, 160, 200, 240 (BPM)								
Pacer Simulation									
Isolated	Yes								
Synchronized with ECG	Yes								
Pacer Size	0.4 to 2 mV								
Pacer Width	1.6 ms								
Respiration Simulation									
Respiration Rate Accuracy	± 0.5% of Reading								
Isolated	Yes								
Synchronized with NIBP	Yes								
Size	1 Ohm								
Rates	30, 70, 15, 30, 45, 60, 80, 100, 120 (RPM)								

Invasive Blood Pressure Simulation	
Isolated	Yes
Synchronized with NIBP	Yes
Excitation Voltage	DC range = 2.5 to 5.7V AC range = 5 to 11.4Vp-p
Pressure Range	0-250 mmHg
Static Pressure Accuracy	± 1 mmHg
Dynamic Pressure Accuracy	± 2mmHg
Simulation Rates	Dynamic = 120/80, 30/10, 125/15, 8/2, 60/30, 20/10, 60/5, 4/0 Static = 100, 200. Step = 0,25,50,100,150,200, 250
Wiring	+ Excitation = pin 1, - Excitation = pin 4, + Sig = pin 3, -Sig = pin 6
Temperature Simulation	
YSI 400 Simulation Values	25, 37, 40 (°C)
YSI 700 Simulation Values	25, 37, 40 (°C)
Simulation Accuracy	± 0.04 °C
Cardiac Output (CO) Simulation	
Baseline Blood Temp	37.0 °C
Baseline Blood Temp Accuracy	± 0.1 °C
Simulation Values	3, 5, 7 (l/m)
Simulation Values Accuracy	5% of the simulation value 3, 5, 7 (l/m)
Injectate Adapter Cable / Box	None Required
Mechanical	
Housing Material	High impact resistant Carbotex Polycarbonate. Ultra-strong construction.
Housing Construction	Clamshell, with 10 #4-40 fasteners all the way through both case parts and 4 plastite corner fasteners
Attachments	Rugged key chain attachment for securing to belt, lanyard, reel, case, workbench, cart, etc.
Labeling	All necessary instructions and data are printed on the case of the simulator, as well as in the operator's manual.