

DS-8007N/M General Specifications

Display		
Size	7 inch wide TFT color LCD	
Resolution	800 x 480, WVGA	
Waveforms	Max. 14	
Sweep Speed	Circulatory	6.25, 12.5, 25, 50 mm/s
	Respiratory	6.25, 12.5, 25 mm/s
Waveform Display	Stationary Trace Mode	

Operation		
Touch Screen Method		
5 Fixed Keys	Home, Menu, Print (Start/Stop), NIBP (Start/Stop) and Alarm Silence	



Parameters		
Waveform	ECG, 12 Lead ECG, IBP (max. 4ch), SpO2, RESP, CO2, EEG (BIS™)	
Measurements*	HR, ST, VPC, IBP (max. 4ch), SpO2, PI (Masimo®), SpCO/SpMet/SpHb/PVI (Masimo®, optional), RR, PR, NIBP, TEMP (max. 6ch), CO2, CO, BIS™	
Arrhythmia Analysis (27)	ASYSTOLE, VF, VT, SVT, RUN, Tachy, Brady, Bigeminy, Frequent, Couplet, Trigeminy, PAUSE, ST, Prolonged RR, Ext. Tachy, Ext. Brady, S Frequent, S Couplet, SVPC, Irregular RR, Triplet, R on T, Multiform, Vent Rhythm, VPC, Pacer Not Capture, Pacer Not Pacing	

*Masimo® measurement is available only for Masimo® model devices.

ECG		
Measuring Range	Adult/Child	0, 12 to 300 bpm
	Neonate	0, 30 to 300 bpm
Measuring Accuracy	±3 bpm	
Size	1/4, 1/2, 1, 2 and 4	
HR Display Response Time	Adult/Child	6 sec
	Neonate	3 sec

Defibrillation Proof Provided

SpO2		
Measuring Method	2 Wavelength Pulse Wave	
Module	Nellcor™/Masimo® Technology	
Measuring Range	1 ~ 100%	
Measuring Accuracy	±2% (Nellcor™)/ ±2% (Masimo®)	
PR Measuring Range	20 ~ 250 bpm (Nellcor™)	
	26 ~ 239 bpm (Masimo®)	
PR Accuracy	±3 bpm	

Respiration		
Measuring Method	Impedance	
Measuring Range	0, 4 to 150 bpm	
Measuring Accuracy	±3 bpm	

Temperature		
Measuring Method	Thermistor	
Measuring Range	32°F to 113°F / 0 to 45°C	
Measuring Accuracy	±0.4°F (between 77°F and 113°F) / ±0.2°C (between 25°C and 45°C)	
Number of Channels	Max. 6	

EtCO2 (optional)		
Sidestream (Microstream™)		
Measuring Range	0 to 99 mmHg	
Measuring Accuracy	0 to 38 mmHg : ±2 mmHg	
	39 to 99 mmHg : ±0.05 reading + 0.08x (reading -39 mmHg)	
Mainstream (RESPIRONICS®)		
Measuring Range	0 to 150 mmHg	
Measuring Accuracy	0 to 40 mmHg : ±2 mmHg	
	41 to 70 mmHg : ±5%	
	71 to 100 mmHg : ±8%	
	101 to 150 mmHg : ±10%	

Invasive Blood Pressure		
Measuring Range	-50 to 300 mmHg	
Measuring Accuracy	±1 mmHg or within ±2%	
PR Measuring Range	Adult	12 to 300 bpm
	Neonate	30 to 300 bpm
PR Accuracy	±1 bpm or ±3%	
Number of Channels	Max. 4	
Non-Invasive Blood Pressure		
Measuring Method	Oscillometric	
Measuring Range	Adult	10 to 280 bpm
	Child	10 to 180 bpm
	Neonate	10 to 130 bpm
Static Pressure Accuracy	±3 mmHg	
PR Measuring Range	40 to 240 bpm	
PR Accuracy	±2% or ±2 bpm	
BIS™ (HBX-800 with BISx™, optional)		
Bispectral Index (BIS™)	Measurement Range	0 to 100%
	Resolution	1%
Signal Quality Index (SQI)	Measurement Range	0 to 100%
	Resolution	0.1%
EMG Display Range	Tabular Trend	25 dB to 100 dB
	Bar Graph	30 dB to 55 dB
	Graphic Trend	30 dB to 80 dB
Suppression Ratio (SR)	0% to 100%	
Spectral Edge Frequency (SEF)	0.5 Hz to 30 Hz	
Printer (HR-800, optional)		
Number of Waveform	Max. 3	
Printing Type	Thermal	
Printing Speed	50, 25 mm/sec	
Waveform Printed	ECG, RESP, SpO2, IBP, CO2 and Alarm Factors	
Full Disclosure		
When optional SD card (16 GB) is used, 240 hours with a maximum of 6 waveforms		
Graphic Trend		
24 hours (240 hours with SD card) / 4 selectable groups / 44 items		
Tabular Trend		
24 hours (240 hours with SD card) / 6 selectable groups / 56 items		
Alarm History		
Max. 1599 items		

Dimensions (W x H x D) (not including the protrusion)		
DS-8007N/M	7.9 x 7.3 x 4.3 inch / 200 x 185 x 108 mm	
DSA-81 AC Unit	8.8 x 4.3 x 6.6 inch / 224 x 109 x 167 mm	
Weight		
DS-8007N/M	5.3 lbs / 2.4 kg	
DSA-81 AC Unit	2.4 lbs / 1.1 kg	
Power		
Power Requirements	AC 100 ~ 240V, 50/60 Hz	
Power Consumption	70 VA max.	
Battery Operation	5 hours with optional battery BTO-008	
Environmental Condition		
Operating Environment		
Ambient Temperature	50 to 104°F / 10 to 40°C	
Relative Humidity	30 to 85%	
Transport / Storage		
Ambient Temperature	14 to 140°F / -10 to 60°C	
Relative Humidity	10 to 95%	
Safety		
General Standard	IEC 60601-1 : 2005 + A1 : 2012	
EMC Standard	IEC 60601-1-2 : 2007	
Electrical Shock Protection	Class I (AC Power Operation)	
	Internal Powered Equipment (Battery Operation)	
Degree of Protection Against Electric Shock	Type CF	ECG/RESP, SpO2, TEMP, IBP, CO
	Type BF	NIBP, CO2, BIS
Waterproof / Dustproof	DS-8007N/M	IP32
	DSA-81 AC Unit	IPX1
Conformity	CE Marking per 93/42/EEC Directive	
RoHS Compliant		
External Connection from DSA-81 (AC Unit)		
Serial Connector (COM)		
Status I/O Connector (Status II)		
DS-LAN Connector		
U-Link Connector		



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