

DS-8200 General Specifications

Display		
Size	10.2 inch wide TFT color LCD	
Resolution	1024 x 600, WSVGA	
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		



Parameters		
Waveform	ECG, 12 Lead ECG, IBP (max. 6ch), SpO2, RESP, CO2	
Measurements*	HR, ST, VPC, IBP (max. 6ch), SpO2, PI (Masimo®), SpCO/SpMet/SpHb/PVI (Masimo®, optional), RR, PR, NIBP, TEMP (max. 6ch), CO2, CO	
Arrhythmia Analysis	ASYSTOLE, VF, VT, Slow VT, RUN, Tachy, Brady, Bigeminy, Frequent, Couplet, Trigeminy and PAUSE	

*Masimo® measurement is available only when the HS-8312M Masimo® model device is connected.

ECG (HS-8312N/M)		
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 (HS-8312N/M)		
Measuring Method	2 Wavelength Pulse Wave	
Module	Nellcor™/Masimo® Technology	
Measuring Range	1 ~ 100%	
Measuring Accuracy	±3% (Nellcor™)/ ±2% (Masimo®)	
PR Measuring Range	20 ~ 250 bpm (Nellcor™)	
	26 ~ 239 bpm (Masimo®)	
PR Accuracy	±3 bpm	

Respiration (HS-8312N/M)		
Measuring Method	Impedance	
Measuring Range	0, 4 to 150 bpm	
Measuring Accuracy	±3 bpm	

Temperature (HS-8312N/M)		
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 (HS-8312N/M)		
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. 6	

Non-Invasive Blood Pressure (HS-8312N/M)		
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	

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, AWF, AWP, AWW and Alarm Factors

Full Disclosure
When optional CF card (16 GB) is used, 48 hours with a maximum of 6 waveforms

Graphic Trend
24 hours / 4 selectable groups / 58 items

Tabular Trend
24 hours / 6 selectable groups / 111 items

Dimensions (W x H x D) (not including the protrusion)	
LC-8210 Display Unit	10.6 x 8.3 x 2.6 inch / 270 x 210 x 66 mm
BS-8210 Base Unit	10.6 x 3.6 x 7.1 inch / 270 x 92 x 180 mm
HSB-80 HS Adapter	9.1 x 8.3 x 5.3 inch / 230 x 210 x 135 mm
HS-8312N/M HS Module	3.3 x 3.9 x 7.9 inch / 85 x 100 x 200 mm

Weight	
LC-8210 Display Unit	4.0 lbs / 1.8 kg
BS-8210 Base Unit	5.5 lbs / 2.5 kg
HSB-80 HS Adapter	3.3 lbs / 1.5 kg
HS-8312N/M HS Module	2.6 lbs / 1.2 kg

Power	
Power Requirements	AC 100 ~ 240V, 50/60 Hz
Power Consumption	80 VA during AC Power Operation
Battery Operation	5 hours with 2 x BTO-008 batteries

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 : 1988 + A1 : 1991 + A2 : 1995 IEC 60601-1-1 : 2000
EMC Standard	IEC 60601-1-2 : 2007
Electrical Shock Protection	Class I (AC Power Operation)
	Internal Powered Equipment (Battery Operation)
Conformity	CE Marking per 93/42/EEC Directive
RoHS Compliant	

External Connection from BS-8210 (Base Unit)	
Serial Connector (COM x 2 ports)	
DS-LAN Connector	
External Monitor Connector	
Status I/O Connector (Status II x 2 ports)	
U-Link Connector	
Module LAN Connector (via HSB-80 HS Adapter)	



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