

DS-1200 Bedside Monitor

General Specifications

Display	
Display Element	TFT Color LCD
Size	15.6 inch
Resolution	1366 pixel x 768 pixel
Waveform Display Format	Stationary Trace Mode (Max. 22 Waveforms)
Touch Panel	Capacitive Touch Panel

Sweep Speed	
Circulatory	6.25, 12.5, 25, 50 mm/s
Respiratory	6.25, 12.5, 25 mm/s

Dimensions (W x H x D) (not including the protrusion)	
15.7 x 11.4 x 6.7 inch	
400 x 290 x 170 mm	

Parameters*	
Heart Rate/ST/Arrhythmia, Impedance Respiration Rate, SpO2, PR, NIBP (SYS, DIA, MAP, Cuff Pressure, PR), IBP (Max 8ch), TEMP (Max 8ch), CO, EtCO2, InpCO2, N2O (In/Ex), O2 (In/Ex), Agent (In/Ex), Respiration Rate, Apnea, BIS, SR/EMG/SQI	

Waveform*	
ECG, 12 Lead ECG, RESP, SpO2 (Max 2ch), IBP (Max 8ch), CO, EtCO2 (optional), BIS/Agent (optional)	

Arrhythmia Analysis (28)	
Asystole, VF, VT, Slow VT, Run, Couplet, PAUSE, Bigeminy, Trigeminy, Frequent, Tachy, Brady, Ext Tachy, Ext Brady, R on T, Multiform, Vent Rhythm, SVT, AFib, Irregular RR, Prolonged RR, Pacer Not Capture, Pacer Not Pacing, Triplet, S Frequent, S Couplet, VPC, SVPC	

Scoring Function	
Score Mode	EWS1 (Early Warning Score), EWS2, qSOFA (quick-Sequential Organ Failure Assessment), NEWS2 (National Early Warning Score)

ECG		
Heart Rate 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

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. 4



Weight (not including the recorder and battery)	
11.0 lbs	
5.0 kg	

SpO2	
Measuring Method	2 Wavelength Pulse Wave
Module	Medtronic® (Nellcor™) / Masimo®
Measuring Range	1 ~ 100%
Measuring Accuracy	±3% (Medtronic®) / ±2% (Masimo®)
PR Measurement Range	20 ~ 300 bpm (Medtronic®)
	26 ~ 239 bpm (Masimo®)
PR Accuracy	±3 bpm

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

*Displayed waveform and vital sign parameters displayed depends upon the device connected

Non-Invasive Blood Pressure	
Measuring Method	Oscillometric
Measuring Range	0 to 300 bpm
Static Pressure Accuracy	±3 mmHg
PR Measuring Range	30 to 240 bpm
PR Accuracy	±5% or ±5 bpm

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. 8 Channels

Telemetry	
Frequency	608 - 614 MHz

Recorder Specification	
Printing Waveforms	3 waveforms (maximum)
Printing Speed	25 mm/sec., 50 mm/sec.
Printing Type	Waveform, List, Graphic
Protective Circuit	Provided

Power Supply	
Rated Voltage	100 - 240 V AC, DC 14.4 V
Power Consumption	100 VA and below
Rated Capacity	4100 mAh

BIS™ (Medtronic®)		
Bispectral Index (BIS™)	Measurement Range	0 to 100%
	Resolution	1%
Signal Quality Index (SQI)	Measurement Range	0 to 100%
	Resolution	0.1%

EtCO ₂ (optional)	
Sidestream (Medtronic®)	
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%

Environmental Conditions	
Operating Temperature	10°C to 40°C
Operating Humidity	30% to 85% (non-condensing)
Transport/Storage Temperature	-10°C to 60°C
Transport/Storage Humidity	10% to 95% (non-condensing)
Storage Atmospheric Pressure	70 kPa to 106 kPa

Safety	
General Safety Standard	IEC 60601-1 Ed. 3.1 : 2012
EMC Standard	IEC 60601-1-2 : 2014
Protection Against Electrical Shock	Class I Equipment/Internally Powered Equipment
Operation Mode	Continuous Operating Equipment

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