

BDS-2100 Bedside Monitor

General Specifications

Display

Display Element	TFT Color LCD
Size	12.1 inch
Resolution	1280 x 800 pixels
Waveform Display Format	Stationary Trace Mode
Touch Panel	Capacitive Touch Panel

Sweep Speed

ECG/SpO2	25, 50 mm/s
RESP/CO2	6.25, 12.5, 25 mm/s

Dimensions (W x H x D) (not including the protrusion)

12.0 x 10.4 x 6.7 inches
305 x 265 x 171 mm



Weight (not including the optional accessories)

Approx. 3.65 kg
Approx. 8.05 lbs / 128.75 oz

Parameters*

Heart Rate/Pulse Rate/ST Level/Arrhythmia, Respiration Rate/Apnea Time (Impedance, CO2), SpO2 (Medtronic® (Nellcor™) /Masimo®), NIBP (SYS, DIA, MAP, Cuff Pressure, PR, Oscillation Graph), Perfusion Index, RPP, SI, EtCO2 (optional), InspCO2 (optional), Temperature (optional)

Waveform*

ECG, Respiration, Pulse Wave, CO2 (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)
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ECG

Lead Types	Lead with 3, 4 and 5 electrodes
Frequency Characteristic	150 Hz / 40 Hz / 15 Hz (3, 4 and 5 electrodes)
Heart Rate Measurement Range	Adult: 0, 12 to 300 bpm Neonate: 0, 30 to 300 bpm
Heart Rate Measurement Accuracy	Within ± 3 bpm
Heart Rate Display Response Time	Adult/Child: 6 sec Neonate: 3 sec
Waveform Size	1/4, 1/2, 1, 2 and 4
Defibrillation Proof	Yes (resuming time is 5 seconds when tested according to IEC 60601-2-27:2011 201.8.5.5.1)

*Depends on the bedside monitor and telemetry device connected to the network. Also the displayed items depend on the equipment itself.

Respiration (Impedance Method)	
Measurement Current	100 μ A and below (at 20 kHz $\pm$ 5%)
Measurement Range	0 Bpm, 4 Bpm to 150 Bpm
Measurement Accuracy	Within $\pm$ 3 bpm
SpO2 (Masimo®)	
SpO2 Measurement Range	1% to 100% SpO2
SpO2 Measurement Accuracy	Adult: $\pm$ 2% SpO2 (SpO2: when 70% to 100%) Neonate: $\pm$ 3% SpO2 (SpO2: when 70% to 100%)
PR Measurement Range	26 to 239 bpm
PR Measurement Accuracy	$\pm$ 3 bpm (when 26 bpm to 239 bpm: when no motion)
SpO2 (Medtronic® / Nellcor™)	
Measurement Range	1% to 100% SpO2
Measurement Accuracy	Adult: $\pm$ 3% SpO2 (SpO2: when 70% to 100%: DS-100A is used) Neonate: $\pm$ 2% SpO2 (SpO2: when 70% to 100%)
PR Measurement Range	20 to 250 bpm
PR Measurement Accuracy	$\pm$ 3 bpm (when 20 bpm to 250 bpm)
Invasive Blood Pressure	
Measurement Range	-50 mmHg to 300 mmHg
Measurement Accuracy	$\pm$ 2% or $\pm$ 1 mmHg of full scale, whichever is greater
Non-Invasive Blood Pressure (NIBP)	
Measurement Range	0 mmHg to 300 mmHg
Measurement Accuracy	$\pm$ 3 mmHg
Recorder Specification (optional)	
Printing Waveforms	3 waveforms (maximum
Printing Speed	25 mm/sec, 50 mm/sec
Telemetry System	
Frequency	608 - 614 MHz
Power Supply	
Voltage	AC 100 - 240 V, 14.8 VDC (during battery operation)
Power Consumption	100 VA or less during AC power operation
Battery for Operating the Equipment	
Operation Time	Approx. 2 hours (NIBP 15-min interval, the option units are not used, battery protection: ON [default]) Approx. 3 hours (NIBP 15-min interval, the option units are not used, battery protection: OFF)
Charging Time	Quick Charge (when the device is not operating): within 4 hours Normal Charge (when the device is operating): within 10 hours
Safety	
General Safety Standard	IEC 60601-1 Ed3.2
EMC Standard	IEC 60601-1-2 Ed4.1
Protection Against Electrical Shock	Class I Equipment (during AC power operation) Internally Powered Equipment (during battery operation)

