

BM1 VITAL SIGNS MONITOR



Physical Specifications

Dimension(mm)	180(H) x 188(W) x 60(D)
Weight(Kg)	1.5
Display	7" TFT-LCD
Resolution	800 x 480
Control Keys	Power Key, Alarm Key, BP measurement Key, Home Key
Trace	
Waveforms	Up to 2 - SpO ₂ , EtCO ₂
Sweep Speed	6.25 mm/sec, 12.5 mm/sec, 25 mm/sec, 50 mm/sec

Parameters and Modules

ECG	3 Lead(1CH)
SpO ₂	Bionet SpO ₂
NIBP	Bionet NIBP
TEMP	1CH
EtCO ₂	Mainstream & Sidestream

ECG

ECG Leads	3 Lead: I, II, III 5 Lead: I, II, III, aVR, aVL, aVF, V
Heart Rate	
Range	Adult/Pediatric : 15 to 300 bpm Neonate : 30 to 350 bpm
Accuracy	±1 bpm or ±1%, whichever is greater
ST Segment Detection Range	-2.0 to 2.0 mV
Arrhythmia Analysis	Asystole, V-Tach, V-Fib
Pacemaker Detection Mode	Indicator on waveform display (user selectable)
Protection	Against electrosurgical interference and defibrillation

Respiration

Method	Thoracic impedance
Channel Selection	RA-LL
Measurement Range	5 to 120 bpm
Accuracy	±1 bpm
Apnea Alarm	Yes

SpO₂

Measurement Range	0 to 100%
Accuracy*	70 to 100% : ±2 digits 0 to 69% : unspecified
Pulse Rate Range	30 to 254 bpm
Pulse Rate Accuracy	±2 bpm

Non-Invasive Blood Pressure

Method	Oscillometric with linear deflation
Operation Mode	Manual/Automatic/Continuous
Measurement Range	
Adult	Systolic : 40 to 260 mmHg MAP : 26 to 220 mmHg Diastolic : 20 to 200 mmHg
Pediatric	Systolic : 40 to 230 mmHg MAP : 26 to 183 mmHg Diastolic : 20 to 160 mmHg
Neonate	Systolic : 40 to 130 mmHg MAP : 26 to 110 mmHg Diastolic : 20 to 100 mmHg
Accuracy	Mean error : less than ±5 mmHg Standard deviation : less than 8 mmHg

Temperature

Measurement Range	34 to 42.5°C (93.2 to 108.5°F)
Accuracy	36°C to 39°C : ±0.2°C Other : ±0.3°C

ETCO₂(Main/Side)

Measurement Range	0 to 150 mmHg, 0 to 19%
Accuracy	0 to 40mmHg ±2 mmHg, 41 to 70mmHg ±5% of reading 71 to 100mmHg ±8% of reading 101 to 150mmHg ±10% of reading
Respiration Rate	0 to 150 bpm (Main) 2 to 150 bpm (Side)
Respiration Accuracy	±1 bpm

Environmental Specifications

Temperature	
Operating	5 to 40 °C (41 to 104 °F)
Storage	-20 to 60 °C (-4 to 140 °F)
Humidity	
Operating	30 to 85%
Storage	10 to 95% (Package)
Altitude	
Operating	525 to 795 mmHg (70 to 106 kPa)
Storage	375 to 795 mmHg (50 to 106 kPa)

Power Specifications

Power Consumption	< 50 W
Line Voltage	100 to 240 VAC 1.2A
Current	1.5 to 0.75 A
Frequency	50/60 Hz
Battery	Rechargeable Lithium ion 10.8 V 2,150mAh or 3,250mAh

Interface Specifications

Interface	DC connector : 15VDC, 2.0A LAN digital output for transferring data Nurse call system connector (0.3A @125VAC to 1A @ 24VDC) 2 USB 2.0 connector HDMI connector
Data Storage	
Common	168 hrs trends data
Option	5,000 cases of patient data
Indicators	Categorized alarms (3 priority levels), Visual alarm lamp handle, SpO2 pulse beep, Percent(%) SpO2 pitch tone, Battery status, External power LED, Touch screen
Network	
Wired	IEEE 802.3
Wireless	IEEE 802.11 (a, b, g, n)
Safety	
Type of Protection	Class II
Ingress Protection	IPX1

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