BM7 PATIENT MONITOR

bionet

Physical Specifications

Dimension(mm)	324(H) x 257(W) x 218(D)
Weight(Kg)	4.5
Display	12.1" Touchscreen
Resolution	1024 x 768
Control Keys	Power Key, Rotary Knob, Alarm Key, Printer Key, BP measurement Key, Home Key
Trace	
Waveforms	Up to 6 - 2CH ECG, SpO_2, RR or $EtCO_2$ or 2CH IBP
Sweep Speed	6.25 mm/sec, 12.5 mm/sec, 25 mm/sec, 50 mm/sec

Parameters and Modules

ECG	5 Lead(7CH)
SpO_2	Bionet SpO_2
NIBP	Bionet NIBP
IBP	2CH
TEMP	2CH
$EtCO_2$	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, Bigeminy, Trigeminy, AccVent, Couplet, Irregular, Pause, R on T, V-Brady, Short Run, PVC
Pacemaker Detection Mode	Indicator on waveform display (user selectable)
Protection	Against electrosurgical interference and defibrillation

Respiration

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

SpO_2

$BSpO_2$	
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

* The specified accuracy is the root-mean-square (RMS) difference between the measured values and the reference values.

Non-Invasive Blood Pressure

Method	Oscillometry with step 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

Method	Thermal resistance
Operation Mode	Direct
Measurement Range	0 to 50℃ (32 to 122℉)
Accuracy	25 to 50℃ : ±0.1℃ 0℃ to the less than 25℃ : ±0.2℃
Compatibility	98ME04GA603 temperature probes

$ETCO_2$(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

IBP

Measurement Range	-50 to 300 mmHg
Accuracy	4% of reading or ±4 mmHg, whichever is greater
Pulse Rate Measurement Range	0 to 300 bpm
Zero Balancing	Range : ±200 mmHg Accuracy : ±1 mmHg Drift : ±1 mmHg over 24 hrs
Transducer Sensitivity	5μV/V/mmHg

Environmental Specifications

Temperature	
Operating	5 to 40 ℃ (41 to 104 ℉)
Storage	–20 to 60 ℃ (–4 to 140 ℉)
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
Current	1.5 to 0.75 A
Frequency	50/60 Hz
Battery	Rechargeable Lithium ion 10.8 V 6,500mAh (Defult)

Interface Specifications

Interface	DC input connector : 18VDC, 2.8A LAN port for transferring data Nurse call system connector 2 USB 2.0 connector HDMI output connector
Data Storage	
Common	168 hrs trends data
Option	20 cases of 10 sec alarm waveform
Indicators	Categorized alarms (3 priority levels), Visual alarm lamp, SpO2 pulse pitch tone, Battery status, External power LED
Network	
Wired	IEEE 802.3
Wireless	IEEE 802.11 (a, b, g, n)
Safety	
Type of Protection	Class I
Ingress Protection	IPX2

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