

BM3

Clear display and versatile
patient monitor



SUPERIOR ADVANTAGES

- ▶ ECG, SpO₂, NIBP, Respiration, Temperature
 - ▶ 7" color TFT LCD for a clear view
 - ▶ Individual sweep speed setting for each parameter
 - ▶ 128 full hours trend data are stored
 - ▶ SpO₂ measurement with very low perfusion detection and pulse beep
 - ▶ 2 traces ECG
 - ▶ Screen freeze on/off
 - ▶ External VGA output for large screen (Option)
 - ▶ Connected to BM Central monitoring system using LAN or W-LAN
 - ▶ Li-ion Battery with longer time life (1.5 hours for continuous operation)
- ▶ High-performance ECG detection and analysis
 - Enhanced Input impedance for dry skin or electrode patch
 - ST level, PVC count real-time display
 - 3 kinds of Arrhythmia analysis
 - Pacemaker detection function
 - ▶ Enhanced data management
 - Graphical and Tabular Trends
 - 20cases * 10 sec alarm waveform are stored, reviewed and printed

SPECIFICATIONS

General

Display, Resolution	7" Wide color TFT LCD, 800 x 480 pixels
Dimension, Weight	238(W) x 250(H) x 163(D) mm, Approx. 3.1kg
Trace	4 waveforms : 2*ECG, SpO ₂ , Respiration Sweep speed : 6.25, 12.5, 25, 50 mm/sec
Indicators	Categorized alarms (3 priority levels) Visual alarm QRS beep & SpO ₂ Pulse beep Percent(%) SpO ₂ pitch tone Battery status, External Power LED Rotary knob
Interfaces	Power supply : AC 100-240V(50/60Hz) DC input connector : 18VDC, 2.5A Defibrillator Sync. Output : - Signal Level : 0 to 5 V pulse - Pulse Width : 100 ± 10 ms LAN digital output for transferring data Nurse Call System connection : - 0.3A at 125 VAC - 1A at 24 VDC External VGA monitor connection DC output : 5VDC, 1A Max
Battery	Rechargeable Li-ion battery, 1.5 hours for continuous operation
Thermal Printer (Option)	Speed : 25, 50 mm/sec Paper Width : 58mm
Data Storage	128 hours trends, 20cases of 10sec alarm waveform
Language	English, French, Spanish, Italian, German, Chinese, Russian, Czech, Polish, Turkish, Romanian, Portuguese, Bulgarian, Hungarian, Korean

Accessories

Standard	3-lead patient cable	1ea
	Electrodes	10ea
	NIBP extension hose(3m)	1ea
	Reusable adult cuff(25-35cm)	1ea
	SpO ₂ extension cable(2m)	1ea
	Reusable adult SpO ₂ probe	1ea
	DC adapter(18VDC, 2.5A) with power cord	1ea
Optional	Paper roll(2 rolls are included in printer type)	
	Reusable temperature probe(Surface/Rectal)	
	5-lead patient cable	
	NIBP cuff(Reusable/Disposable)	

Order Specification

Ordering Name	Function description
BM3	ECG, SpO ₂ , Bionet NIBP, Temperature
BM3 XP	ECG, SpO ₂ , Suntech NIBP, Temperature



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Performance

ECG

Lead Type	3-lead, 5-lead(option)
Lead Selection	3-lead : I, II, III 5-lead : I, II, III, aVR, aVL, aVF, V(Option)
ECG waveforms	3-lead : 1 channel 5-lead : 1 channel(option)
Heart Rate Range	Adult : 30 to 300 bpm, Neonate/Pediatric : 30 to 350 bpm
Heart Rate Accuracy	± 1bpm or ± 1%, whichever is greater
Sweep speed	6.25, 12.5, 25, 50 mm/sec
Filter	- Diagnosis : 0.05 to 150 Hz - Monitoring : 0.5 to 40 Hz - Moderate : 0.5 to 25 Hz - Maximum : 5 to 25 HZ
S-T segment detection range	-2.0 to 2.0 mV
Arrhythmia analysis	ASYSTOLE, VTACH, VFIB
Pacemaker Detection Mode	Indicator on waveform display (user selectable)
Protection	Against electrosurgical interference and defibrillation

Respirations

Method	Thoracic impedance
Channel Selection	RA-LA or RA-LL
Measurement range	5 to 120 Breath per minute
Accuracy	± 1breath per minute
Apnea alarm	Yes

SpO₂

Saturation range	0 to 100%
Saturation accuracy	70 to 100% ±2 digits, 0 to 69% unspecified
Pulse rate range	30 to 254 bpm
Pulse rate accuracy	± 2 bpm

Bionet NIBP

Method	Oscillometry
Operation Mode	Manual/Automatic/Continuous
Pressure range	0 to 300mmHg (Accuracy ±3mmHg)
Measurement range	Adult Pressure : 20 to 260 mmHg Pediatric Pressure : 20 to 230 mmHg Neonate Pressure : 20 to 120 mmHg
Accuracy	Mean error : less than ±5 mmHg Standard deviation : less than 8 mmHg

Suntech NIBP (Option)

Method	Oscillometry
Operation mode	Manual/Automatic/Continuous
Pressure range	0 to 300mmHg (Accuracy ±3mmHg)
Safety pressure	Adult : 300 mmHg Neonate : 150 mmHg
Measurement Range	Adult Pressure : 20 to 260 mmHg Pulse Rate : 30 to 220 BPM Pediatric Pressure : 20 to 160 mmHg Pulse Rate : 30 to 220 BPM Neonate Pressure : 20 to 130 mmHg Pulse Rate : 30 to 220 BPM
Accuracy	Meets accuracy requirements of ANSI/AAMI SP10 : 1992 AND 2002

Temperature

Measurement range	0 to 50°C (32 to 122°F)
Accuracy	25°C to 50°C : ±0.1°C 0°C to 24°C : ±0.2°C
Compatibility	YSI Series 400 temperature probes

* Specifications can be changed without prior notification.

* You may have distortion or signal noise when you use nonstandard or other brand's accessories.
We strongly recommend you use only the authorized accessories which we supply.