

# BM3

Clear display and versatile patient monitor



## SUPERIOR ADVANTAGES

- ▶ ECG, SpO<sub>2</sub>, 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
  - ▶ SpO<sub>2</sub> 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

<b>Display, Resolution</b>	7" Wide color TFT LCD, 800 x 480 pixels
<b>Dimension, Weight</b>	238(W) x 250(H) x 163(D) mm, Approx. 3.1kg
<b>Trace</b>	4 waveforms : 2*ECG, SpO <sub>2</sub> , Respiration Sweep speed : 6.25, 12.5, 25, 50 mm/sec
<b>Indicators</b>	Categorized alarms (3 priority levels) Visual alarm QRS beep & SpO <sub>2</sub> Pulse beep Percent(%) SpO <sub>2</sub> pitch tone Battery status, External Power LED Rotary knob
<b>Interfaces</b>	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
<b>Battery</b>	Rechargeable Li-ion battery, 1.5 hours for continuous operation
<b>Thermal Printer (Option)</b>	Speed : 25, 50 mm/sec Paper Width : 58mm
<b>Data Storage</b>	128 hours trends, 20cases of 10sec alarm waveform
<b>Language</b>	English, French, Spanish, Italian, German, Chinese, Russian, Czech, Polish, Turkish, Romanian, Portuguese, Bulgarian, Hungarian, Korean

## Accessories

<b>Standard</b>	3-lead patient cable	1ea
	Electrodes	10ea
	NIBP extension hose(3m)	1ea
	Reusable adult cuff(25-35cm)	1ea
	SpO <sub>2</sub> extension cable(2m)	1ea
	Reusable adult SpO <sub>2</sub> probe	1ea
	DC adapter(18VDC, 2.5A) with power cord	1ea
<b>Optional</b>	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 <sub>2</sub> , Bionet NIBP, Temperature
BM3 XP	ECG, SpO <sub>2</sub> , Suntech NIBP, Temperature



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## Performance

### ECG

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

### Respirations

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

### SpO<sub>2</sub>

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

### Bionet NIBP

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

### Suntech NIBP (Option)

<b>Method</b>	Oscillometry
<b>Operation mode</b>	Manual/Automatic/Continuous
<b>Pressure range</b>	0 to 300mmHg (Accuracy ±3mmHg)
<b>Safety pressure</b>	Adult : 300 mmHg Neonate : 150 mmHg
<b>Measurement Range</b>	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
<b>Accuracy</b>	Meets accuracy requirements of ANSI/AAMI SP10 : 1992 AND 2002

### Temperature

<b>Measurement range</b>	0 to 50°C (32 to 122°F)
<b>Accuracy</b>	25°C to 50°C : ±0.1°C 0°C to 24°C : ±0.2°C
<b>Compatibility</b>	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.