

# BM3

Clear display and versatile  
 patient monitor  
 8" touch screen LCD monitor



## SUPERIOR ADVANTAGES

- ▶ EtCO2 ready (Suntech NIBP version)
- ▶ 8" Touch screen color TFT LCD for a clear parameter
- ▶ Individual sweep speed setting for each parameter
- ▶ 168 full hours trend data are stored
- ▶ SpO2 measurement with every low perfusion detection and plus beep
- ▶ 2 traces ECG
- ▶ Screen freeze ON/OFF
- ▶ External HDMI output for large screen
- ▶ Connected to BM central monitoring system using LAN or W-LAN
- ▶ Li-ion battery with longer time life(2 hours for continous operation)
- ▶ B2B interconnection
  - Up to 4 units of Bionet monitors(BM3/5/7) can be connected by B2B function
- ▶ EMR direcr HL7 with editable menu
- ▶ Enhanced & extendible multi-parameter
  - Sidestream/Mainstream EtCO<sub>2</sub>
- ▶ 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
  - USB memory storage

# SPECIFICATIONS

## General

Display, Resolution	8" wide color touch TFT LCD, 800 x 600 pixels
Dimension, Weight	238 (W) x 250 (H) x 163 (D) mm, approx. 3.1 kg
Trace	4 waveforms: 2*ECG, SpO2, respiration Sweep speed: 6.25, 12.5, 25, 50 mm/sec.
Indicators	Categorized alarms (3 priority levels) Visual alarm QRS beep & SpO2 pulse beep Percent (%) SpO2 pitch tone Battery status, external power LED Rotary knob
Interfaces	Power supply: AC 100 - 240 V (50/60 Hz) DC input connector: 18 VDC, 2.8 A LAN digital output for transferring data Nurse call system connection: - 0.3 A at 125 VAC - 1 A at 24 VDC External HDMI output for large screen USB barcode reader USB memory data storage/ S/W upgrade
Battery	Rechargeable Li-ion battery Approx 2 hours of continuous operation
Thermal Printer (Option)	Speed: 25, 50 mm/sec. Paper Width: 58 mm
Data Storage	168 hours of trend data, 20 cases of 10 sec. alarm waveform
Language	English, French, Spanish, Italian, German, Chinese, Russian, Czech, Polish, Turkish, Romanian, Portuguese, Bulgarian, Hungarian, Korean

## Accessory

Standard Accessory	3-lead ECG cable with extension - 1 ea Electrodes - 10 ea NIBP extension hose (3 m) - 1 ea Reusable adult cuff (23-33/27.5-36.5 cm) - 1 ea SpO2 extension cable (2 m) - 1 ea Reusable adult SpO2 probe - 1 ea DC adapter(18VDC,2.8A) with power code - 1ea
Optional	2 Paper rolls Reusable temperature probes(Surface/Rectal) NIBP cuff (reusable /disposable)

## Optional Module

Mainstream EtCO <sub>2</sub> airway adapter kit(sensor)
Sidestream EtCO <sub>2</sub> airway adapter kit(sensor)

## Optional Specification

Ordering Name	Function description
BM3	1Ch ECG, SpO2, Bionet NIBP, TEMP
BM3 X	1Ch ECG, SpO2, Suntech NIBP, TEMP, EtCO <sub>2</sub>

## Temperature (only probe option)

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

## Performance

<b>Sidestream EtCO<sub>2</sub> - Respironics(Suntech NIBP version)</b>	
Measurement Range	0 to 150 mmHg, 0 to 19%
Accuracy	0 to 40 mmHg ± 2 mmHg, 41 to 70 mmHg ± 5 % of reading, 71 to 100 mmHg ± 8 % of reading, 101 to 150 mmHg ± 10 % of reading
Respiration Rate	2 to 150 breaths per minute
Respiration Accuracy	± 1 breath per minute

<b>Mainstream EtCO<sub>2</sub> - Respironics(Suntech NIBP version)</b>	
Measurement Range	0 to 150 mmHg, 0 to 19%
Accuracy	0 to 40 mmHg ± 2 mmHg, 41 to 70 mmHg ± 5 % of reading, 71 to 100 mmHg ± 8 % of reading, 101 to 150 mmHg ± 10 % of reading
Respiration Rate	0 to 150 breaths per minute
Respiration Accuracy	± 1 breath per minute

## ECG

Lead Type	3-lead, 5-lead(option)
Lead Selection	3-lead: I, II, III
ECG Waveforms	3-lead: 1 channel
Heart Rate Range	Adult: 30 to 300 bpm, neonate/pediatric: 30 to 350 bpm
Heart Rate Accuracy	±1 bpm 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
Pacemaker Detection Mode	Indicator on waveform display (user selectable)
Protection	Against electrosurgical interference and defibrillation

## Respiration

Method	Thoracic impedance
Channel Selection	RA-LA or RA-LL
Measurement Range	5 to 120 breaths per minute
Accuracy	± breath per minute
Aphnea alarm	Yes

## SpO<sub>2</sub>

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

## NIBP( Bionet )

Method	Oscillometry
Operation Mode	Manual/ Automatic/ Continuous
Pressure Range	0 to 300 mmHg (accuracy ± 3 mmHg)
Safety Pressure	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

## NIBP(Suntech)

Method	Oscillometry
Operation Mode	Manual/ Automatic/ Continuous
Pressure Range	0 to 300 mmHg (accuracy ± 3 mmHg)
Safety Pressure	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

\* 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.



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