

Multi-parameter vital signs monitor

# BM3 Plus

Specially designed to accommodate a highly diverse patient population, BM3 Plus represents a unique answer to the constantly changing demands of today's hospital environment. Its 8.4" color TFT screen offers a remarkably brilliant viewing platform that is suitable for your monitoring needs. Its efficient design and VGA output display make it ideal for use in any department - from traditional bedside monitoring to intra hospital transport.

## Features

### Superior advantages

- 8.4" color TFT screen (800 × 600)
- VGA output connecting to an external monitor directly.
- Visible alarm lamp handle.

### Smart vital technology

- Arrhythmia analysis : VTAC, VFIB, ASYSTOLIC.
- Pacemaker detection indicated on the ECG waveform display.
- Usable from adult to neonatal patient.

### Easy-to-use

- Trim knob for easy setup and prompt selection.
- Direct keys for frequently used functions.
- Internet upgrade for the latest software installation.

### Flexible to transport

- Battery operation makes the device wireless for 2 hours.
- Direct DC (18VDC) input during vehicle transport.
- Easy mounting with hook-up on hand grip.

### Lightweight, Compact, Durable

- Less than 4kgs including battery.
- Easily fits on a standard hospital bed-rail.
- Withstands the rigors of hospital use and patient transport.

### Data management and reporting

- 24 full hours trend and alarm information are stored.
- Built-in recorder generates real time 3-trace data.
- Central monitoring system up to 16 beds. (Option)



## TECHNICAL SPECIFICATIONS

### General >>>

#### ■ Monitor Performance Specifications

<b>Display</b>	8.4" color TFT (800 × 600)
<b>Dimension</b>	238(W) × 250(H) × 163(D)mm, Approx. 3.5kg
<b>Indicators</b>	Up to 3 waves (ECG, SpO <sub>2</sub> , Respiration) Categorized alarms (3 priority levels) Visual alarm lamp Heart rate, SpO <sub>2</sub> tone Battery status External power LED
<b>Interfaces</b>	DC input connector: 11 to 16 VDC, 3A max.. Defib Sync Output Signal Level : 0 to 5 V pulse Pulse Width : 100 ± 10 ms LAN digital output for transferring data VGA output
<b>Battery (standard)</b>	Internal battery : NiMH Battery status indicator Operating Time : 2 hours typically (fully charged battery)
<b>Thermal Printer (Optional)</b>	Speeds : 25, 50 mm/sec Paper Width: 58mm

#### ■ Graphical and Tabular Trends

<b>Tabular Trends</b>	Memory Storage : 24 hours Data Interval : 1, 5, 15, 30 min., and 1hour Tabular Format : One table for all variables
<b>Graphical Trends</b>	Display Duration : 30, 60, 90 minutes, 3, 6, 12 hours

#### ■ accessory

<b>Standard accessory</b>	3-lead patient cable 1ea electrodes 10ea NIBP tubing, 3 m long 1ea Adult cuff, 25-35 cm, reusable 1ea SpO <sub>2</sub> sensor extension cable(2 m) 1ea SpO <sub>2</sub> sensor, reusable 1ea DC adapter, 18VDC, 2.5A 1ea
<b>Optional accessory</b>	Temperature probe Surface/Skin, reusable(OPTION) Thermal paper. (OPTION) 5-lead patient cable(OPTION)

### Performance >>>

#### ■ ECG

<b>Leads</b>	3 leads
<b>Heart Rate Range</b>	30 to 300 bpm
<b>Heart Rate Accuracy</b>	± 3 bpm
<b>Bandwidth</b>	0.5 Hz to 40Hz
<b>Display Sweep Speeds</b>	25mm/sec
<b>ECG Size (Sensitivity)</b>	0.5, 1, 2, 4 cm/mV
<b>Pacemaker Detection Mode</b>	Indicator on waveform display, user selectable
<b>Differential Input Impedance</b>	>5MΩ
<b>CMRR</b>	>90dB at 50 or 60Hz
<b>Input Dynamic Range</b>	± 5 mVAC, ± 300 mVDC
<b>Defibrillator Discharge</b>	<5 s
<b>Defib. artifact recovery time</b>	<8 s
<b>Arrhythmia analysis</b>	VTAC/VFIB VTAC ASYSTOLIC
<b>Lead-Off Detection with display indicator</b>	

#### ■ SpO<sub>2</sub>

<b>% Saturation Range</b>	0% to 100%
<b>Pulse Rate Range</b>	30 to 300 bpm
<b>SpO<sub>2</sub> Accuracy</b>	70% to 100% ± 2 digits 0% to 69% unspecified
<b>Pulse Rate Accuracy</b>	± 3 bpm

#### ■ NIBP

<b>Technique</b>	Oscillometric
<b>Measurement Modes</b>	Manual : Single measurement Auto: Automatic intervals of 1,2,3,4,5, 10,15,20,30 min. and 1,2,4,8 hr.
<b>Cuff Pressure Display</b>	30 to 300 mmHg
<b>B.P. measurement range</b>	Systolic : 60 to 250 mmHg Mean Arterial Pressure: 45 to 235 mmHg Diastolic : 40 to 220 mmHg

#### Adjustable Cuff Inflation Pressure

#### ■ Respirations

<b>Range</b>	5 to 120 breaths/min
<b>Accuracy</b>	± 3 breaths/min
<b>Display Sweep Speeds</b>	25mm/sec

#### ■ Temperature Unit

<b>Range</b>	15°C to 45°C (59°F to 113°F)
<b>Accuracy</b>	25°C to 45°C ± 0.1°C 15°C to 24°C ± 0.2°C
<b>Compatible with</b>	YSI Series 400 Temperature Probes

\*Specifications subject to change without prior notice.



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