



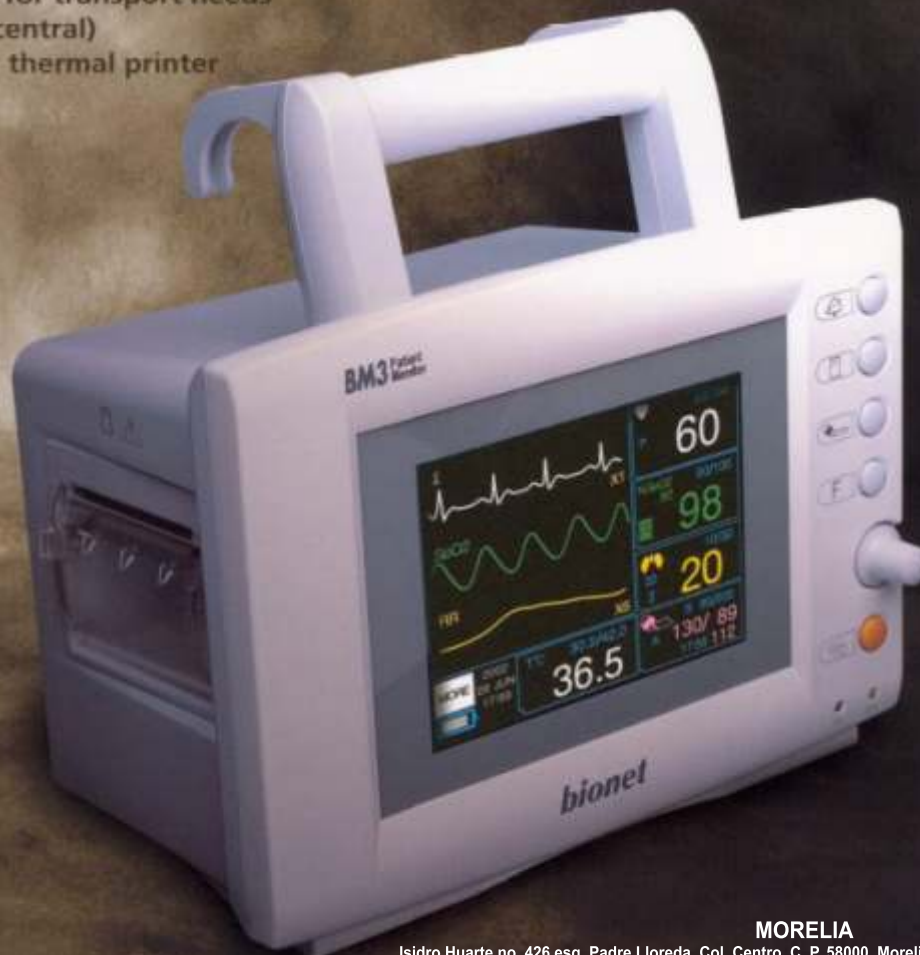
Portable PM

BM3

## Color monitor with B/W price

Providing ECG, SpO2, NIBP, Respiration and Temperature performances, BM3 was designed to meet a wide range of applications. The 5.7" color LCD displays each parameter and vital sign in tabular and graphical trends with outstanding visibility. Remote alarm function and central monitoring system are available. Being operated with built-in battery or direct DC input, it offers speedy transport capability.

- ECG, SpO2, NIBP, Respiration and Temperature.
- Standard Battery operation
- Compatible with Nellcor reusable sensor
- Disposable SpO2 sensor is available
- Direct DC input for transport needs
- LAN interface (central)
- Optional 58mm thermal printer



### MORELIA

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# PORTABLE PATIENT MONITOR BM3

## BM3 is configured with;

- Heart/pulse rate
- 3/5 lead ECG
- Non-invasive blood pressure
- Nellcor pulse oximetry
- Impedance respiration
- Temperature (The sensor is optional.)



## Complete documentation

58mm built-in chart recorder provides high-resolution, fully annotated printouts that simultaneously document up to three waveforms and numerics for all active vital signs.





Advanced monitoring capability!  
Enhanced transportability!



## User-friendliness

Easy of use is vital in the care situations. The user interface of the BM3 is designed to be easy to learn and use. The menus are organized in an intuitive, logical style. Direct keys for the functions you perform most often make operation easy and fast. Further, the trim knob allows you to navigate all the menus in the BM3 freely without any difficulty. Clear and informative alarm messages help you identify problems quickly.



## Bedside availability

It can easily be moved from bed to bed as monitoring needs change, giving you added control and cost efficiency in patient management. Further, it creates a monitored bed anywhere additional or temporary monitoring is needed



## Transportability

Being operated by built-in battery, it can be transported to wherever you require immediate monitoring ; *intermediate care areas, mid-level and low-level ICU, ambulatory surgery and PACU, procedure rooms, emergency, patient transport, or at the scene of an accident.*

Direct DC input capability for vehicle transport extends monitoring boundaries beyond hospital walls.



- Arrhythmia analysis(ASYSTOLIC/VTAG/VFIB)
- User-selectable pacemaker detection mode
- Battery power for backup monitoring security



## From Neonate to Adult

Easily-selectable, programmable modes for optimal performance based on patient age. Mode-specific operation includes alarm limits and NIBP inflation pressure ranges.

## Various applications

The BM3 answers your needs, whether you're treating a patient under the headlights of an ambulance or the surgical lights of a hospital operating room. At every level, you'll find the BM3 to be the right tool with the right capabilities. It makes it easier for you to closely track how a treatment is working and how patients are progressing.



## Central monitoring

The complete view of your patient is right in front of you. Your central workstation can also provide an overview of all your patients up to 16 beds. All the relevant patient information in your care unit is available at a single location. It allows you to devote as much of your time as possible to patient care, and has many innovations that make manual tasks automatic, and intermittent measurements continuous.



## >> Accessories

'\*' mark means 'optional item'.

ECG	 <p><b>3CBL-400</b> Extension cable, 2.4m</p>	 <p><b>3WIRE-400</b> 3-lead patient cable, snap type</p>	 <p><b>ECGSENS-400</b> Disposable electrodes</p>	<p><b>Cart</b></p>  <p><b>*CART-400</b></p>
SpO2	 <p><b>SPCBL-400</b> Extension cable, 2m</p>	 <p><b>SPASENS-400</b> Adult reusable finger probe, Nellcor compatible</p>	 <p><b>*SPNSENS-400</b> Neonate probe, Nellcor compatible</p>	<p><b>*CART-400</b></p>
NIBP	 <p><b>NBPCBL-400</b> Extension tubing, 3m</p>	 <p><b>ACUFF-400</b> Adult cuff, 25-35m</p>	 <p><b>*CCUFF-400</b> Child cuff</p>	 <p><b>*NCUFF-400</b> Neonate cuff</p>

### Paper



**PAPER-400**  
Chart paper, 57.5mm, 38 ø

### Temperature



**\*TEMPSENS-400**  
Temperature sensor, Exacon (2.75m, skin type)

### Bracket



**\*BRACKET-400**  
Bed-rail mounting bracket, 25 X10 mm (EU standard)

# SPECIFICATION

## General >>>

### ■ Monitor Performance Specifications

Display	LCD 5.7" color
Dimension	238(W) x 250(H) x 163(D)mm, Approx. 3.5kg
Indicators	Up to 3 waves (ECG, SpO2, Respiration) Categorized alarms (3 priority levels) Visual alarm Heart rate tone Battery status External power LED
Interfaces	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 to an external computer
Battery (standard)	Internal battery : sealed lead-acid Battery status indicator Operating Time : 2.5 hours typically (fully charged battery)
Thermal Printer (Optional)	Speeds : 25, 50 mm/sec Paper Width: 58mm

### ■ Graphical and Tabular Trends

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

### ■ Environmental Specifications

Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)

### ■ Power adaptor

Input : AC100-240V(50/60Hz)  
Output : AC18V, 2.5A

### ■ Standard accessory

3-lead patient cable 1ea  
Disposable electrodes 10ea  
NIBP tubing (3m long) 1ea  
Reusable Adult cuff (25-35cm) 1ea  
SpO2 sensor (extension cable 2m) 1ea  
Reusable SpO2 sensor 1ea  
DC adaptor (18 VDC, 2.5A) 1ea  
Temperature probe Surface/Skin, reusable(OPTION)  
Chart paper(OPTION)  
5-lead patient cable(OPTION)

## Performance >>>

### ■ ECG

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

### Lead-Off Detection with display indicator

### ■ SpO2

% Saturation Range	0% to 100%
Pulse Rate Range	30 to 300 bpm
SpO2 Accuracy	70% to 100% ± 2 digits 0% to 69% unspecified
Pulse Rate Accuracy	± 3 bpm

### ■ NIBP

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

### Adjustable Cuff Inflation Pressure

### ■ Respirations

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

### ■ Temperature Unit

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



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