

# BM3<sub>PRO</sub>



- Compact, Versatile, Reliable
- 8" High Resolution LCD touch screen
- Comprehensive Capnography
- Complete 3 Year Warranty



## SUPERIOR ADVANTAGES

- ▶ ECG, SpO<sub>2</sub>, NIBP, Respiration, Temperature
- ▶ EtCO<sub>2</sub> ready (can add plug and play side or mainstream EtCO<sub>2</sub> at any time)
- ▶ 8" Touch screen color TFT LCD for a clear parameter
- ▶ Individual sweep speed setting for each parameter
- ▶ 168 full hours trend data are stored
- ▶ SpO<sub>2</sub> measurement with every low perfusion detection and plus beep
- ▶ 2 traces ECG
- ▶ Screen freeze ON/OFF
- ▶ External HDMI output for large screen

- ▶ Extendible multi-parameters
  - Sidestream/Mainstream EtCO<sub>2</sub>
- ▶ High-performance ECG detection and analysis
  - Enhanced input impedance for dry skin or electrode patch
  - Pacemaker detection function
- ▶ Enhanced data management
  - Graphical and tabular trends
  - 20cases \* 10 sec alarm waveform are stored, reviewed and printed
  - USB memory storage



with longer time life

To Purchase, Visit [Avobus.com](http://Avobus.com) or call [1-800-674-3655](tel:1-800-674-3655)

## 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, SpO <sub>2</sub> , respiration<br>Sweep speed: 6.25, 12.5, 25, 50 mm/sec.                                                                                                                                                                                                                 |
| Indicators               | Categorized alarms (3 priority levels)<br>Visual alarm<br>QRS beep & SpO <sub>2</sub> pulse beep<br>Percent (%) SpO <sub>2</sub> pitch tone<br>Battery status, external power LED<br>Rotary knob                                                                                                              |
| Interfaces               | Power supply: AC 100 - 240 V (50/60 Hz)<br>DC input connector: 18 VDC, 2.8 A<br>LAN digital output for transferring data<br>Nurse call system connection:<br>- 0.3 A at 125 VAC<br>- 1 A at 24 VDC<br>External HDMI output for large screen<br>USB barcode reader<br>USB memory data storage/Software upgrade |
| Battery                  | Rechargeable Li-ion battery<br>Approx 2 hours of continuous operation                                                                                                                                                                                                                                         |
| Thermal Printer (Option) | Speed: 25, 50 mm/sec.<br>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, Japanese, Greek                                                                                                                                                      |

### Accessory

|                      |                                         |       |
|----------------------|-----------------------------------------|-------|
| Standard Accessories | 3-lead ECG cable with extension         | 1 ea  |
|                      | Electrodes                              | 10 ea |
|                      | NIBP extension hose (3 m)               | 1 ea  |
|                      | NIBP adult cuff (23-33/27.5-36.5 cm)    | 1 ea  |
|                      | SpO <sub>2</sub> extension cable (2 m)  | 1 ea  |
|                      | Reusable adult SpO <sub>2</sub> probe   | 1 ea  |
|                      | DC adapter(18VDC, 2.8A) with power code | 1 ea  |
|                      | Paper roll                              | 2 ea  |
| Optional Accessories | 5-lead ECG cable                        |       |
|                      | Temperature probes (Skin)               |       |
|                      | NIBP cuff (reusable / disposable)       |       |

### Optional Module

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

### Performance

#### ECG

|                          |                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------|
| Lead Type                | 3-lead, 5-lead (Option)                                                                                  |
| Lead Selection           | 3-lead: I, II, III<br>5-lead(Option): I, II, III, aVR, aVL, aVF, V                                       |
| ECG Waveforms            | 3-lead: 1 channel<br>5-lead(Option): 1 channel                                                           |
| Heart Rate Range         | Adult: 30 to 300 bpm,<br>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<br>- 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          | ±1 breath per minute        |

#### 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(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<br>Pulse rate: 30 to 220 BPM<br>Pediatric pressure: 20 to 160 mmHg<br>Pulse rate: 30 to 220 BPM<br>Neonate pressure: 20 to 130 mmHg<br>Pulse rate: 30 to 220 BPM |
| Accuracy        | Meets accuracy requirements of ANSI/ AAMI SP10: 1992 AND 2002                                                                                                                                   |

#### Temperature (only probe option)

|                   |                                               |
|-------------------|-----------------------------------------------|
| Measurement Range | 0 to 50°C(32 to 122°F)                        |
| Accuracy          | 25°C to 50°C: ± 0.1°C<br>0°C to 24°C: ± 0.2°C |
| Compatibility     | YSI series 400 temperature probes             |

#### Sidestream EtCO<sub>2</sub> - Respironics(option)

|                      |                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                     |

#### Mainstream EtCO<sub>2</sub> - Respironics(option)

|                      |                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                     |

\* 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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