

BM3

Clear display and versatile
patient monitor



SUPERIOR ADVANTAGES

- ▶ ECG, SpO₂, NIBP, Respiration, Temperature
- ▶ EtCO₂ ready (can add plug and play side or mainstream EtCO₂ at any time)
- ▶ 7" color TFT LCD for a clear view
- ▶ Individual sweep speed setting for each parameter
- ▶ 128 full hours of trend data stored
- ▶ SpO₂ measurement with very low perfusion detection and pulse beep
- ▶ 2 trace ECG
- ▶ Screen freeze on/off
- ▶ External VGA output for large screen
- ▶ Li-ion battery (1.5 hours of continuous operation)
- ▶ Enhanced & extendible multi-parameter
 - Sidestream/Mainstream EtCO₂
- ▶ 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
 - 20 cases - 10 sec. alarm waveform stored, reviewed and printed

SPECIFICATIONS

General

Display, Resolution	7" Wide color TFT LCD, 800 x 480 pixels
Dimension, Weight	238 (W) x 250 (H) x 163 (D) mm, approx. 3.1 kg
Trace	4 waveforms: 2*ECG, SpO ₂ , respiration Sweep speed: 6.25, 12.5, 25, 50 mm/sec.
Indicators	Categorized alarms (3 priority levels) Visual alarm QRS beep & SpO ₂ pulse beep Percent (%) SpO ₂ pitch tone Battery status, external power LED
Interfaces	Power supply: AC 100 - 240 V (50/60 Hz) DC input connector: 18 VDC, 2.5 A 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: - 0.3 A at 125 VAC - 1 A at 24 VDC External VGA monitor connection Rotary knob DC output: 5 VDC, 1 A Max
Battery	Rechargeable Li-ion battery, 1.5 hours of continuous operation
Thermal Printer	Speed: 25, 50 mm/sec. Paper width: 58 mm
Data Storage	128 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

Accessories

Standard	3-lead ECG cable with extension	1 ea.
	Electrodes	10 ea.
	NIBP extension hose (3 m)	1 ea.
	NIBP adult cuff (25-35 cm)	1 ea.
	SpO ₂ extension cable (2 m)	1 ea.
	SpO ₂ adult finger sensor	1 ea.
	Power adapter	1 ea.
	Thermal paper rolls	2 ea.
Optional	Temperature probe (skin/rectal)	
	5-lead ECG cable	
	NIBP cuffs (reusable/disposable)	
	Mainstream EtCO ₂ airway adaptor set	
	Sidestream EtCO ₂ sampling line set	

Optional Module

Mainstream EtCO₂ module (sensor)
Sidestream EtCO₂ module (sensor)



North America (U.S.A): Bionet America, Inc.
Tel: +1-714-734-1760

E-mail: sales@BionetUS.com
www.BionetUS.com

South Korea: Bionet co., Ltd.
Tel: +82-70-7585-6418 (Int'l)
+82-2-6300-6483 (Domestic)

E-mail: sales@ebionet.com (Int'l)
/yunms@ebionet.com (Domestic)
www.ebionet.com

Latin America: Bionet Latin America, Inc.
Tel: +1-949-800-9585

E-mail: jayshim@ebionet.com
www.ebionet.com

Europe: MGB Endoskopische Geräte GmbH Berlin
(Germany) Tel: +49-30-6392-7000

E-mail: sales@mgb-berlin.de
www.mgb-berlin.de

Performance

ECG

Lead Type	3-lead, 5-lead (option)
Lead Selection	3-lead: I, II, III 5-lead: I, II, III, aVR, aVL, aVF, V (option)
ECG Waveforms	3-lead: 1 channel 5-lead: 1 channel (option)
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 electro-surgical 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

SpO₂

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

Method	Oscillometry
Operation Mode	Manual/Automatic/Continuous
Pressure Range	0 to 300 mmHg (accuracy ± 3 mmHg)
Safety Pressure	Adult: 300 mmHg Neonate: 150 mmHg
Measurement Range	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

Temperature

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

Sidestream EtCO₂ - Respironics

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 EtCO₂ - Respironics

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.