

BM5

Enhanced & expendable
multi-parameter patient monitor
10.4" Touch screen LCD monitor



SUPERIOR ADVANTAGES

- ▶ ECG, SpO₂, NIBP, respiration, 2 IBP, 2 temperature, EtCO₂
- ▶ 10.4" Touch screen color TFT LCD with 6 waveforms
- ▶ Individual sweep speed setting for each parameter
- ▶ 168 full hours trend data are stored
- ▶ SpO₂ measurement with every low perfusion detection and plus beep
- ▶ Screen freeze ON/OFF
- ▶ OxyCRG, drug calculation
- ▶ 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 continuous operation)
- ▶ B2B interconnection
 - Up to 8 units of Bionet monitors (BM3/5/7) can be connected by B2B function
- ▶ EMR direct HL7 with editable menu
- ▶ Enhanced & extendible multi-parameter
 - Mainstream/ Sidestream EtCO₂
 - High-performance suntech NIBP
- ▶ High-performance ECG detection and analysis
 - Enhanced input impedance for dry skin or electrode patch
 - ST level, PVC count, real-time display
 - 13 kinds of arrhythmia analysis
 - Pacemaker detection function
- ▶ Enhanced data management
 - Graphical and tabular trends
 - 20 cases * 10sec alarm waveform are stored, reviewed and printed
 - USB memory storage

SPECIFICATIONS

General

Display, Resolution	10.4" Wide color TFT LCD, 800 x 600 pixels
Dimension, Weight	238 (W) x 250 (H) x 163 (D) mm, approx. 4.0 kg
Trace	6 waveforms: 2*ECG, SpO2, RR or EtCO2, 2 *IBP Sweep speed: 6.25, 12.5, 25, 50 mm/sec.
Indicators	Categorized alarms (3 priority levels) Visual alarm lamp handle 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: 18VDC, 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/ software upgrade
Battery	Rechargeable Li-ion battery 2 hours for continuous operation
Thermal Printer (Option)	Speed: 25, 50 mm/sec. Paper width: 58 mm
Data Storage	168 hours trends data, 20 cases of 10 sec. alarm waveform
Language	English, French, Spanish, Italian, German, Chinese, Russian, Czech, Polish, Turkish, Romanian, Portuguese, Bulgarian, Hungarian, Korean, Greece

Accessory

Standard Accessory	5-lead ECG cable - 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 adaptor(18VDC, 2.5A)with power cord - 1 ea
Optional Module	3-lead ECG cable 2 Paper rolls Reusable temperature probes(Surface/Rectal) IBP patient cable compatibility(Medex, Edward,BD) Sidestream EtCO2 module(Respironics) Mainstream EtCO2 module(Respironics) Sidestream EtCO2 airway adapter kit Mainstream EtCO2 airway adapter kit NIBP cuff (reusable /disposable)

Optional Specification

Ordering Name	Function description
BM5	7Ch ECG, SpO2, Bionet NIBP, 2TEMP, 2IBP
BM5 X	7Ch ECG, SpO2, Suntech NIBP, 2TEMP, 2IBP, EtCO2

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



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Performance

ECG

Lead Type	3-lead(option), 5-lead
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: 1/2/7 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	- Diagnoses: 0.05 to 150 Hz - Monitoring: 0.5 to 40 Hz - Moderate: 0.5 to 25 Hz - Maximum: 5 to 25 Hz
S-Tsegment detection range	(-)2.0 to 2.0mV
Arrhythmia analysis	ASYSTOLE, VTACH,VFIB,BIGEMINY,ACCVENT,COUPLET,IRREGULAR, PAUSE,PVC, RONT,TRIGMINY,VBRADYOY,SHORTRUN
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

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(Bionet)

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: 30 220 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 ISO 81060-2:2013

NIBP(Suntech)

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: 30 220 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 ISO 81060-2:2013

IBP (Option)

Channels	2
Measuring Range	-50 to 300 mmHg
Accuracy	less than 100 mmHg: ± 1 mmHg equal or greater than 100 mmHg: ± 1% of reading
Pulse Rate Range	0 to 300 bpm
Zero Balancing	Range: ± 200 mmHg Accuracy: ± 1 mmHg Drift: ± 1 mmHg over 24 hours
Transducer Sensitivity	5mV/mmHg

Sidestream EtCO2 - Respironics(Suntech NIBP version)

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(Suntech NIBP version)

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.