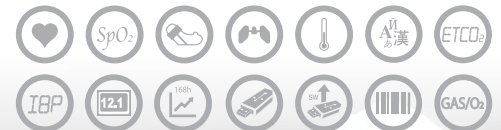


BM7

Affordable and reliable
Reasonable choice for OR/ICU
12.1" Touch screen LCD monitor



SUPERIOR ADVANTAGES

- ▶ ECG, SpO₂, NIBP, Respiration, 2IBP, 2Temperature, EtCO₂, Anesthetic GAS/ O₂
- ▶ 12.1 color TFT LCD Touch screen with 8 waveforms
- ▶ Individual sweep speed setting for each parameter
- ▶ 168 full hours trend data are stored
- ▶ SpO₂ measurement with very low perfusion detection and pulse beep
- ▶ 4-split multiple display modes for diverse hospital environment
- ▶ Screen freeze ON/OFF
- ▶ OxyCRG, Drug Calculation, Full disclosure
- ▶ External HDMI output for large screen
- ▶ Li-ion Battery with longer life time (2hrs for continuous operation/ optional battery total 4hrs)
- ▶ B2B interconnection
 - Up to 16 units of Bionet monitors(BM3/5/7) can be connected by B2B function
- ▶ Easy network connectivity, anytime anywhere simultaneously
- ▶ EMR-direct HL 7
- ▶ Enhanced & extendible multi-parameter
 - Mainstream/Sidestream EtCO₂ (Option)
 - Mainstream/Sidestream Anesthetic Gas/ O₂ (Option)
 - Automatic identification of five anesthetic agents
 - 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 Tagular Trends
 - 20cases * 10 sec alarm waveform are stored, reviewed and printed
 - USB memory storage

SPECIFICATIONS

General

Display, Resolution	12.1" color TFT, LCD, 1024x768 pixels
Dimension, Weight	322(W)x250(H)x224.8(D) mm, Approx. 4.5kg
Trace	6 waveforms : 2*ECG, SpO ₂ , RR or EtCO ₂ , 2*IBP Sweep speed : 6.25, 12.5, 25, 50 mm/sec
Indicators	Categorized alarms (3 priority levels) Visual alarm lamp handle QRS beep & SpO ₂ , pulse beep Percent(%) SpO ₂ , pitch tone Battery status, External power LED Touch screen, Rotary knob
Interfaces	Power supply : AC 100-240V(50/60Hz) CD input connector : 18VDC, 2.8A Defibrillator Sync. Output : - Signal Level : 0 to 5V pulse - Pulse width : 100 ± 10ms LAN digital output for transferring data Nurse Call System connection : -0.3A at 125 VAC -1A at 24 VDC External HDMI monitor connection USB Barcode Reader USB memory data storage / Software Upgrade
Battery	Rechargeable Li-ion battery, 1.5hours for continuous operation (option : Using additional battery total 3hrs)
Thermal printer(option)	Speed : 25,50mm/sec, paper width : 58mm
Data Storage	168hours trends, 20cases of 10sec alarm waveform
Language	English, French, Spanish, Italian, German, Chinese, Russian, Czech, Polish, Turkish, Romanian, Portuguese Bulgarian, Hungarian, Korean

Accessory

standard	5-lead patient cable	1ea
	Electrodes	10ea
	NIBP extension hose(3m)	1ea
	Reusable adult cuff(23-33/27.5-36.5 cm)	1ea
	SpO ₂ extension cable(2m)	1ea
	Reusable adult spO ₂ probe	1ea
	DC adapter(18VDC, 2.8A) with power cord	1ea
Optional	Paper roll(2 rolls are included in printer type) Reusable temperature probe (Surface/Rectal) IBP transducer set (Disposable/Reusable) Sidestream EtCO ₂ module Mainstream EtCO ₂ module Sidestream EtCO ₂ airway adapter kit Mainstream EtCO ₂ airway adapter kit 3 lead ECG cable 10 lead ECG cable NIBP cuff(Reusable/Disposable)	

Optional Module

Mainstream EtCO ₂ module(Respironics)
Sidestream EtCO ₂ module(Respironics)
Anesthetic GAS/O ₂ modul(phasein)

Performance

ECG

Leads Type	3-lead(option) , 5-lead
Lead Selection	3-lead : I , II , III(option) 5-lead : I , II , III, aVR, aVL, aVF, V
ECG waveforms	3-lead : 1 channel 5-lead : 1/2/7 channels
Heart Rate Range	Adult : 30 to 300bpm, Neonate/Pediatric : 30 to 350 bpm
Heart Rate Accuracy	± 1bpm 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
S-T segment detection range	2.0 to 2.0 mV
Arrhythmia analysis	ASYSTOLE, VTACH, VFIB, BIGEMINY, ACCVENT, COUPLET, IRREGULAR, PAUSE, PVC, RONT, TRIGMINY, VBRADY, SHORTRUN
Racemaker Detection Mode	Indicator on waveform display (user selectable)
Protection	Against electrosurgical interference and defibrillation

Respirations

Method	Thoracic impedance
Channel Selection	RA-LA or RA-LL
Measurement Range	5 to 120 Breath per minute
Accuracy	±1 breath per minute
Apnea 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-Suntech

Method	Oscillometry
Operation mode	Manual / Automatic / Continuous
Pressure range	0 to 300mmHg (accuracy : ±3mmHg)
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 Pluse Rate : 30 to 220 BPM
Accuracy	Meets accuracy requirements of ANSI/AAMI SP10 : 1992 and 2002

Temperature

Channels	2
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

IBP (Option)

Channels	2
Measurement range	-50 to 300mmHg
Accuracy	<100mmHg : ±1mmHg >=100mmHg : ±1% of reading
Pulse rate range	0 to 300bpm
Zero balancing	Range : ±200mmHg Accuracy : ±1mmHg Drift : ±1mmHg over 24hours
Transducer sensitivity	5µV/mmHg

Mainstream EtCO₂, Sidestream EtCO₂ - Respironics

Measurement range	0 to 150 mmHg, 0 to 19%
Accuracy	0-40mmHg ±2mmHg, 41-70mmHg ±5% of reading 71-100mmHg ± 8% of reading, / 101-150mmHg ± 10% of reading
Respiration rate	0 to 150 breath per minute (Mainstream EtCO ₂) 2 to 150 breath per minute (Sidestream EtCO ₂)
Respiration accuracy	±1breath per minute

Anesthetic GAS / O₂-Phasein (Option)

Method	Infra-red absorption characteristic
Mainstream	IRMA AX +
Sidestream	ISA OR+ / AX+
Gas	CO ₂ , O ₂ , N ₂ O, Des, Iso, Enf, Hal, Sev
Warm-up time	Main stream (IRMA AX+) Iso accuracy mode : 45s Full accuracy mode : 60s Side stream (ISA OR+ / AX+) : <20s
Sample flow rate(for ISA OR + / AX+)	50 ± 10ml/min
Measuring Range	CO ₂ : 0~15% N ₂ O : 0~100% Hal/Iso/Enf : 0~8% Sev : 0~10% Des : 0~22% O ₂ : 0~100%(ISA OR+)
Respiratory Rate	0~150bpm ± 1bpm

* 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
* The ST algorithm has been tested for accuracy of the ST segment data
The significance of the ST segment changes need to be determined by a clinician



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