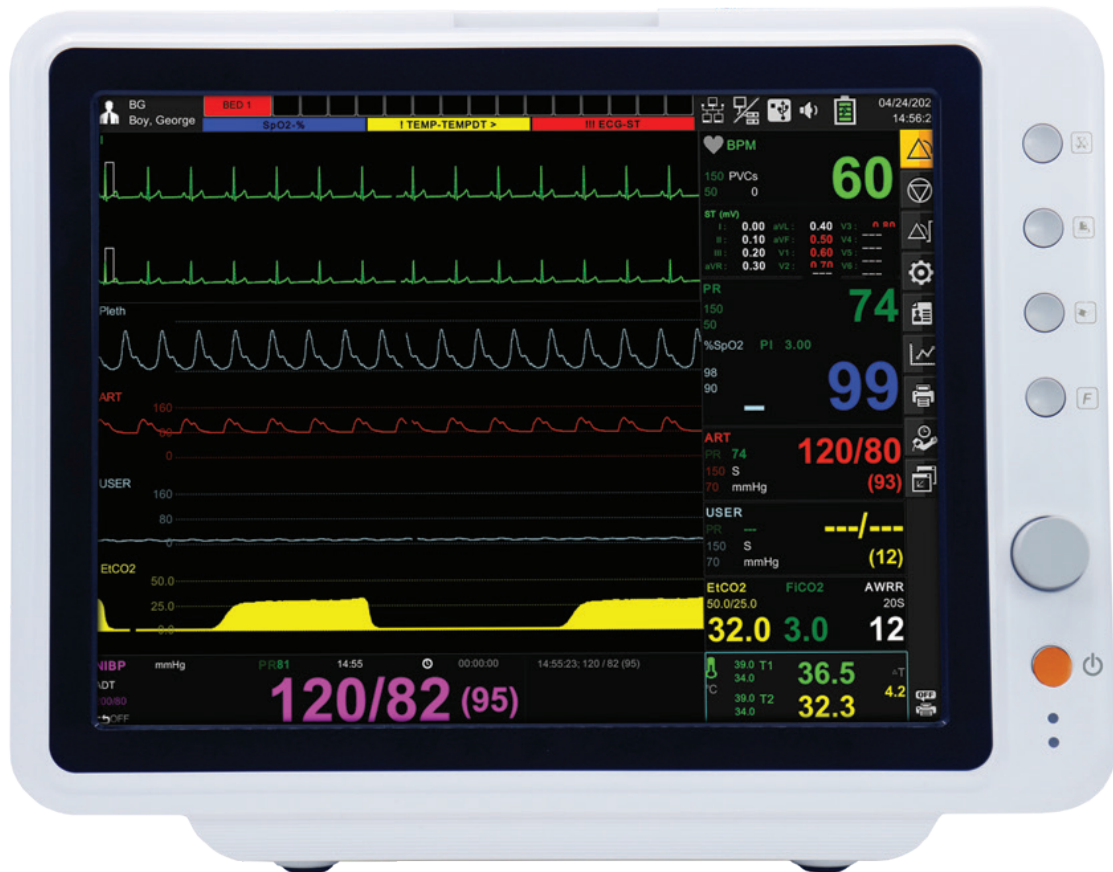


# BM 7



## Introducing improved BM 7 with new environmental standards



New design with improved durability standard of IPX2



Convenient POP-UP trend for ST analysis & NIBP monitoring



Simplifying workflow



Enhanced diagnostic data & review capabilities



User-friendly interface



Comprehensive connectivity

## New and Improved Housing Design

- Meets IPX2 Water Ingress Standard, most stringent drip test
- Improved ergonomics, maximizing display presentation and operation

## Enhanced Workflow

- Easy patient registration with barcode scanner
- Patient Admission & Discharge menu
- Direct HL7 interface to HIS/EMR/external USB memory
- Auto data transfer mode with HL7 period from 10sec. ~ 6hr. interval

## User-friendly Interface

- Large, remote color display HDMI Interface
- Screen Freeze for event capturing and Screen Lock for convenient cleaning
- Detachable bed-rail hook
- One-Touch™ design for easy pole, rollstand and wall mounting
- On-board Drug Calculation software

## Advanced Diagnosis Data and Review

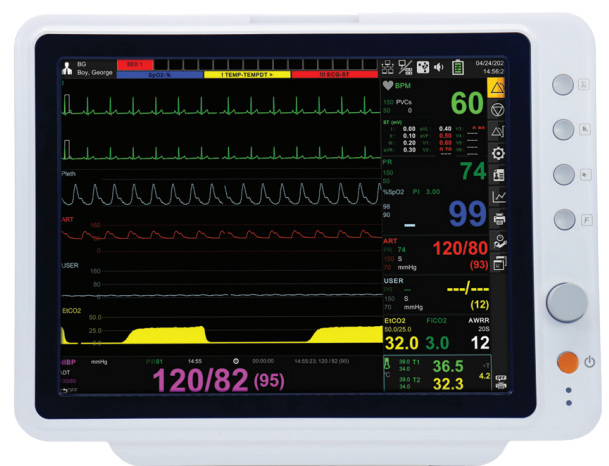
- Arrhythmia & ST segment analysis
- Pacemaker detection
- OxyCRG monitoring for neonate patient
- Report supporting 103 ECG data diagnosis sets
- 168 hours of tabular and graphical trends

## Comprehensive Connectivity

- 2 USB slots for external data transfer & barcode scanner
- Bed-to-Bed monitoring mode
- LAN, Wifi connection to BM Plus central monitoring system

## BM7 Chart

	BM7
Display size	12.1" Touch
Standard Parameter	ECG/Spo2/NIBP/Resp/ 2CH-IBP / 2CH-Temp
NIBP (SUNTECH)	Opt.
Temp	2CH Optional sensor
IBP	2CH Optional sensor & cable
EtCO2	Open port Optional sensors
Waveforms	6
PRINTER	Y
NETWORK	LAN,Wifi,USB



## Enhanced, Robust Physical Design

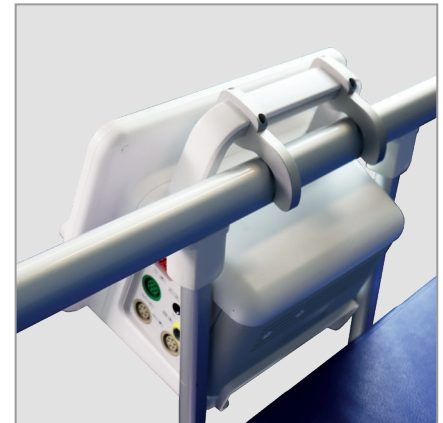
With ease of use in mind



New housing design supporting IPX2



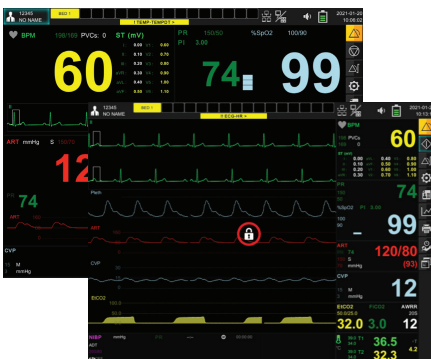
"One-Touch" design for easy pole, rollstand and wall mounting



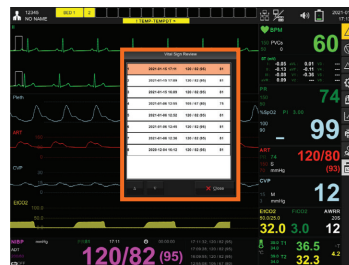
Detachable bed-rail hook

## Versatile Operation

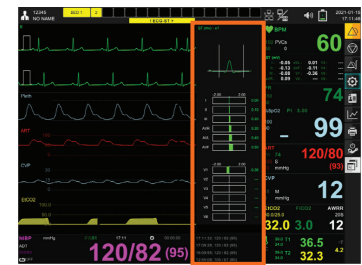
Enhancing patient monitoring experience



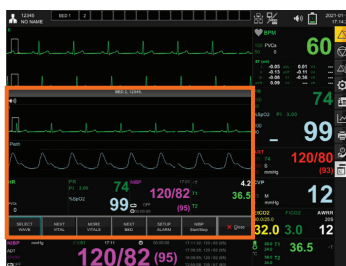
Screen Freeze / Lock function & Customizable display



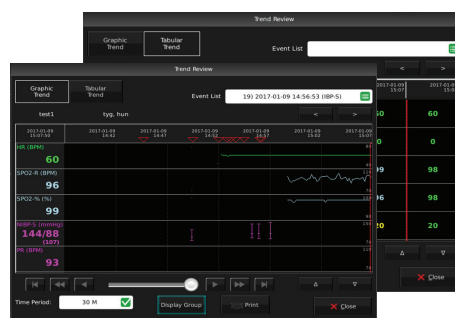
Quick review with NIBP trend window



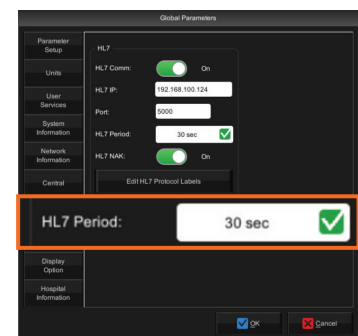
ST trend window for analyzing and detecting changes in ECG



Access to a different bed with Bed-to-Bed monitoring function



168 Hours of Tabular and Graphical trends



HL7 Auto data transfer from 10sec. ~ 6hr

# Technical specifications

Hardware specifications	
<b>Dimension (W x H x D) &amp; Weight</b>	<b>BM3</b> 240 x 237 x 176 / Approx 3.1kg <b>BM5</b> 276 x 262 x 176 / Approx 4kg <b>BM7</b> 324 x 257 x 218 / Approx 4.5kg
<b>Display / Resolution</b>	<b>BM3</b> 8" / 800 X 600 <b>BM5</b> 10.4" / 800 X 600 <b>BM7</b> 12.1" / 1024 X 768
<b>Parameters</b>	<b>BM3</b> ECG, Heart Rate, Respiration Rate, SpO <sub>2</sub> , Pulse Rate, Systolic BP, Diastolic BP, Mean BP, EtCO <sub>2</sub> , FICO <sub>2</sub> , Airway Respiration Rate, 1CH-Temp <b>BM5 / BM7</b> 2CH-IBP, 2CH-Temp
<b>Trace</b>	<b>BM3</b> 4 waveforms : 2 x ECG, SpO <sub>2</sub> , RR or EtCO <sub>2</sub> <b>BM5 / BM7</b> 6 waveforms : 2*ECG, SpO <sub>2</sub> , RR or EtCO <sub>2</sub> , 2*IBP
<b>Indicators</b>	Categorized alarms (3 priority levels) SpO <sub>2</sub> pitch tone, Battery status, External power LED
<b>Interfaces</b>	DC input connector : 15VDC, 2.0A LAN digital output for transferring data Nurse call system connection: - 0.3A at 125VAC - 1A at 24VDC External monitor connection: HDMI USB barcode reader USB data storage
<b>Battery</b>	Rechargeable BM3/BM5 3250mAh (or optional 6500mAh), BM7 6500mAh
<b>Data Storage</b>	168hours (saving interval 1 min')
<b>Water Resistance</b>	IEC 60529:2013 Degree of protection provided by enclosures, IPX2

ECG	
<b>ECG lead &amp; Waveforms</b>	<b>BM3</b> 3-lead : 1 channel I, II, III 5-lead : 1 channel I, II, III, aVR, aVL, aVF, V <b>BM5 / BM7</b> 5-lead : 2/7 channels I, II, III, aVR, aVL, aVF, V
<b>Heart Rate Range</b>	Adult / Pediatric : 30 ~ 300 bpm Neonate : 30 ~ 350 bpm
<b>Heart Rate Accuracy</b>	±1bpm or ±1%, whichever is greater
<b>Sweep Speed</b>	6.25, 12.5, 25, 50 mm/sec
<b>Filter</b>	Diagnosis : 0.05Hz ~ 150Hz Monitoring : 0.5 ~ 40 Hz Moderate : 0.5 ~ 25 Hz Maximum : 5 ~ 25 Hz
<b>S-T Segment Detection Range</b>	-2.0 to 2.0 mV
<b>Arrhythmia Analysis</b>	ASYSTOLE, VTACH, VFIB <b>BM5, BM7 only</b> BIGEMINY, ACCVENT, COUPLET, IRREGULAR, PAUSE, PVC, RONT, TRIGEMINY, VBRADY, SHORTRUN
<b>Pacemaker Detection Mode</b>	Indicator on waveform display (user selectable)
<b>Protection</b>	Against electrosurgical interference and defibrillation

Respiration Performance	
<b>Method</b>	Thoracic impedance
<b>Channel Selection</b>	RA-LL BM5, BM7 only: RA-LA
<b>Measurement Range</b>	5 ~ 120 breaths per minute
<b>Accuracy</b>	±1 breath per minute
<b>Apnea Alarm</b>	Yes

Temperature Performance	
<b>Measurement Range</b>	0 ~ 50°C (32 ~ 122°F)
<b>Accuracy</b>	25 ~ 50°C: ±0.1°C 0°C to the less than 25°C: ±0.2°C
<b>Compatibility</b>	98ME04GA603 temperature probes
<b>Operating Mode</b>	0 ~ 50°C (0 ~ 122°F)
<b>Channels</b>	1CH (BM3), 2CH (BM5/7)

IBP Performance (BM5/BM7 Only)	
<b>Channels</b>	2
<b>Measurement Range</b>	-50 ~ 300mmHg
<b>Accuracy</b>	4% of reading or ± 4 mmHg, whichever is greater
<b>Pulse Rate Measurement Range</b>	0 ~ 50°C (0 ~ 122°F)
<b>Zero Balancing</b>	Range: ±200mmHg Accuracy: ±1mmHg Drift: ±1mmHg over 24hours
<b>Transducer Sensitivity</b>	5µV/mmHg

SpO <sub>2</sub>	
<b>Saturation range</b>	0 to 100%
<b>Saturation accuracy</b>	70 to 100% ±2 digits 0 to 69% unspecified
<b>Pulse rate range</b>	30 to 254 bpm
<b>Pulse rate accuracy</b>	±2 bpm

NIBP	
<b>Method</b>	Oscillometric
<b>Operation Mode</b>	Manual/Automatic/Continuous
<b>Measurement range</b>	Systolic : 40 to 260 mmHg MAP : 26 to 220 mmHg Diastolic : 20 to 200 mmHg
<b>Accuracy</b>	mean error: less than ±5 mmHg standard deviation : less than 8 mmHg Meets accuracy requirements of ANSI/AAMI SP10:1992 and 2002 (Optional SunTech module)

ETCO <sub>2</sub> (Main/Sidestream)	
<b>Measurement range</b>	0 to 150 mmHg, 0 to 19%
<b>Accuracy</b>	0-40mmHg ±2 mmHg, 41-70mmHg ±5% of reading 71-100mmHg ±8% of reading, 101-150mmHg ±10% of reading
<b>Respiration rate</b>	2 to 150 breaths per minute
<b>Respiration accuracy</b>	±1 breath per minute

\* Specifications can be changed without prior notification.