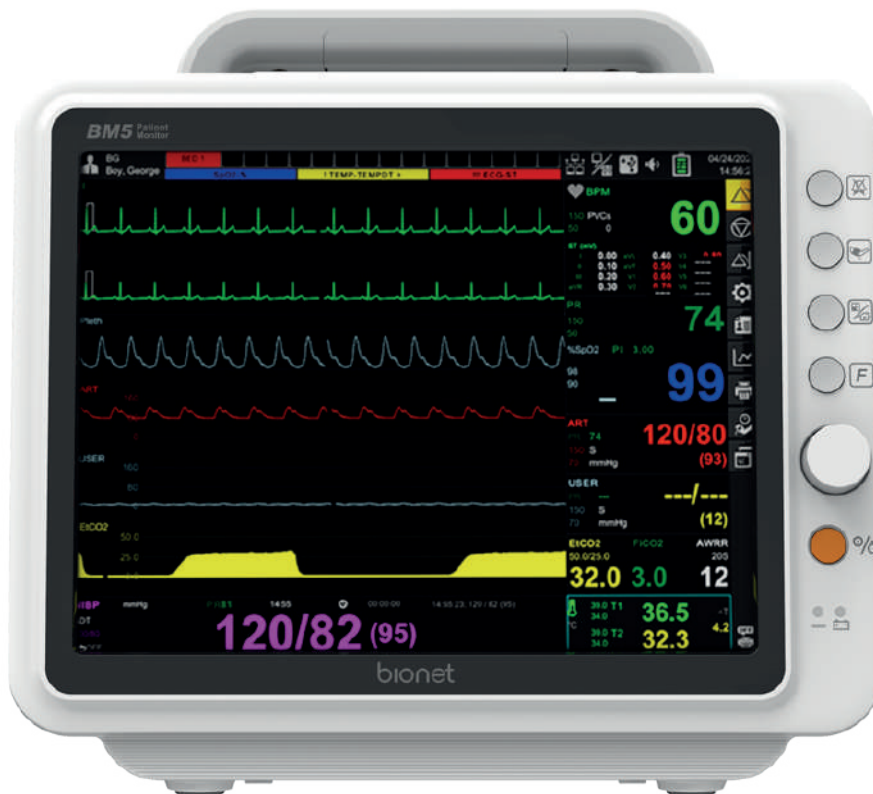


Multi-Parameter Patient monitor

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Multi-Parameter Patient monitor (BM5)

BM5 offers clear parameters & user-friendly usability with excellent network connectivity



Features

- Parameter versatility from recovery to post-op

BM5 offers wide application coverage from recovery ward up to ICU, pre-op, post-op, & quick surgery application with Bionet's engineering BMGA Multi-gas analyzer as well as main and side stream EtCO₂ capnography.

- User friendly display design & Interface

10" LCD touch screen that displays clear and enlarged parameters, allowing care-givers to get access to operational measurement in tip of their fingers.

- Pop up menu

All Bionet patient monitors offer Pop-up trend for ECG events with ST segment analysis for easy recognition.

- INOP alarm

Adds operational values with informing users to acknowledge immediate physiological & technical alarms of IEC60601-1-8 requirement.

- Excellent network connectivity

Features care-givers' workflow demand from patient admission to discharge with barcode readers and ID by direct HL7 interface. Its central connectivity allows up to 64 monitors (16 wireless monitors) that permits users to manage patient data with remote NIBP triggering, alarm settings, and exporting to EHR.

Technical specifications

Hardware specifications	
Dimension (W x H x D) & Weight	BM3 240 x 237 x 176 / Approx 3.1kg BM5 276 x 262 x 176 / Approx 4kg BM7 324 x 257 x 218 / Approx 4.5kg
Display / Resolution	BM3 8" / 800 X 600 BM5 10.4 / 800 X 600 BM7 12.1 / 1024 X 768
Parameters	BM3 ECG, Heart Rate, Respiration Rate, SpO ₂ , Pulse Rate, Systolic BP, Diastolic BP, Mean BP, EtCO ₂ , FiCO ₂ , Airway Respiration Rate, 1CH-Temp BM5 / BM7 2CH-IBP, 2CH-Temp
Trace	BM3 4 waveforms : 2 x ECG, SpO ₂ , RR or EtCO ₂ BM5 / BM7 6 waveforms : 2*ECG, SpO ₂ , RR or EtCO ₂ , 2*IBP
Indicators	Categorized alarms (3 priority levels) SpO ₂ pitch tone, Battery status, External power LED
Interfaces	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
Battery	Rechargeable BM3/BM5 3250mAh (or optional 6500mAh), BM7 6500mAh
Data Storage	168hours (saving interval 1min')
Water Resistance	IEC 60529:2013 Degree of protection provided by enclosures, IPX2

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

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

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

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

SpO ₂	
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	Oscillometric
Operation Mode	Manual/Automatic/Continuous
Measurement range	Systolic : 40 to 260 mmHg MAP : 26 to 220 mmHg Diastolic : 20 to 200 mmHg
Accuracy	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 ₂ (Main/Sidestream)	
Measurement range	0 to 150 mmHg, 0 to 19%
Accuracy	0-40mmHg ±2 mmHg, 41-70mmHg ±5% of reading 71-100mmHg ±8% of reading, 101-150mmHg ±10% of reading
Respiration rate	2 to 150 breaths per minute
Respiration accuracy	±1 breath per minute

* Specifications can be changed without prior notification.



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