Bedside Monitor
BSM-6301

One Standard Across the Care Continuum

- Premium-as-Standard Design:
  - Comprehensive arrhythmia detection and recall
  - Advanced Atrial Fibrillation algorithm
  - Multi-waveform, multi-parameter full disclosure
  - ST analysis and recall
  - Diagnostic 12-lead ECG
  - Drug, hemodynamic and pulmonary calculations
- Selection of input and expansion units provide flexible monitoring
- Continuity of monitored care during transport with BSM-1700 transport monitor
- 10" high resolution touchscreen display for ease of operation

Specifications

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DISPLAY

Display Size: 10" color TFT type LCD

Display Characteristics: Resolution: 800 x 600. Touch screen with six quick access hard keys.

Maximum Number of Waveform Traces: Up to 15 traces

Display Waveforms: ECG (up to 12), respiration, IBP (up to 2), SpO_2 pulse wave, CO_2, BIS EEG (up to 2 traces), vent PAW, vent Flow, and CO Thermodilution curve. When gas is monitored: O_2 concentration curve, CO_2 concentration curve, anesthetic agent concentration (Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane) Analog input

Numerical Data Display: Heart rate, VPC rate, ST level, RR respiration rate, NIBP (systolic, diastolic, mean), IBP (systolic, diastolic, mean), SpO_2, SpO_2-2, delta SpO_2, pulse rate, temperature, CO, CI, Ti (injectate temperature), Tb (blood temperature), O_2 concentration, $EtCO_2$, BIS, inspired/ expired N_2O concentration, inspired/ expired CO_2, inspired/ expired O_2 concentration, inspired/ expired anesthetic agent concentration (Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane), MAC (minimum alveolar concentration), Ppeak (peak airway pressure), PEEP (positive end expiratory pressure), Pmean (mean airway pressure), MV (minute volume), TVi (inspiratory tidal volume), TVe (expiratory tidal volume), C (compliance), R (airway resistance), Ri (inspiratory airway resistance), Re (expiratory airway resistance), I:E (inspiration expiration ratio), SEF (90 or 95% spectral edge frequency), MDF (median frequency), PPF (peak power frequency), TP (total power), TP power of frequency, TOF, CCO, SVRI, SvO_2, EF, $ScvO_2$, CCI, EDV, SVR, EDVI, PCCO, PCCI, $tcPO_2$, $tcPCO_2$, PPV, SPV

ALARMS

Alarm Items: Vital sign alarms, arrhythmia alarms, technical alarms and operational alarms

Alarm Levels: Crisis (red blinking), Warning (yellow blinking), Advisory (yellow or blue light)

Alarm Indication: Alarm indicator (360° visibility) highlighted message, alarm sound

Alarm Suspend: 1, 2, or 3 min

PARAMETERS

ECG:
Number of ECG waveforms channels: Up to 12
Frequency response:
- Diagnosis mode: 0.05 to 150 Hz
- Monitor mode: 0.3 to 40 Hz
- Maximum filter mode: 1 to 18 Hz

Heart Rate Counting range: 0, 15 to 300 beats/min
Arrhythmia Analysis method: Multi-template software algorithm
VPC counting rate: 0 to 99 VPCs/min
Arrhythmia alarms: ASYSTOLE, VF, VT, V RHYTHM, V BRADY, EXT TACHY, EXT BRADY, AF, VPC RUN, COUPLET, EARLY VPC, BIGEMINY, TRIGEMINY, FREQ VPC, PROLONGED RR, SV TACHY, TACHYCARDIA, BRADYCARDIA, VPC, MULTIFORM, IRREGULAR RR, NO PACER PULSE, PACER NON-CAPTURE, PAUSE

ST Level Measurement: Number of measurement channels: Up to 12
Measuring range: ±2.5 mV

Respiration (Impedance or Thermistor Method): Measuring range: 0 to 150 breaths/min

SpO_2:
Measuring Technology: Nihon Kohden, Massimo or Nellcor
Measuring Display Range: 0 to 100% (70 to 100% at specified accuracy)
Pulse rate from SpO_2 Range: 0, 30 to 300 beats/min (varies by SpO_2 technology)

Non Invasive Blood Pressure, NIBP:
Measuring method: Oscillometric Cuff
Pressure display range: 0 to 300 mmHg

Invasive Blood Pressure, IBP:
Measuring range: –50 to 300 mmHg
Pulse rate display range from IBP range: 30 to 300 beats/min

Temperature:
Measuring range: 0 to 45°C
Number of channels: 4 maximum

Cardiac Output:
Measuring method: Thermodilution method
Measuring range: Injectate temperature (Ti): 0°C to 27°C
Blood temperature (Tb): 15°C to 45°C
Thermodilution curve (delta Tb): 0°C to 2.5°C
Cardiac output (CO): 0.5 to 20 L/min

Inspired Oxygen Fractional Concentration: Measuring range: 0 to 100%

CO_2:
CO_2 measuring range: 0 to 150 mmHg
Respiration rate counting range: 3 to 150 breaths/min

BIS:
Input channels: 2
Measuring parameters: Bispectral Index (BIS), 95% Spectral Edge Frequency (SEF90, SEF95), Suppression Ratio (SR), EMG, Signal Quality Index (SQI)

STORED PATIENT DATA

Trendgraph:
Trend parameters: All monitored parameters
Trend display time: Up to 72 hours

Vital Signs List: All monitored parameters for up to 72 hours.
Periodic: 4320 (1 per minute for 72 hours)

NIBP: Number of entries: 1,024 files

HEMO List: Number of entries: 1,024 files

Full Disclosure:
Storage time: Up to 72 hours
Number of Waveforms stored: 5 maximum

ST Recall: Number of files: 4,320 files (1 per minute for 72 hours) for all monitoring leads

Alarm History: Number of entries: 16,384 files

Arrhythmia Recall: Number of files: 16,384 files

12-Lead Interpretive Recall: Number of files: 18 files

OCRG: Storage capacity: 72 hours

Hemodynamics Trend Table: Number of entries: 1,024 files

RECORDER (option)

Recording Method: Thermal array recording

Number of Channels: 3 traces (maximum)

POWER REQUIREMENT

AC: 100 to 240 V ±10%

DC (SB-671P): 8.5 to 12.6 V

Line Frequency: 50 or 60 Hz

Battery Operation time: 90 minutes

Power Consumption: AC 140 VA

DIMENSIONS AND WEIGHT

Dimensions: 12.4" x 12.8" x 7.4" (316 W x 325 H x 188 D mm)

Weight: 11.7 lbs (6.3 kg)

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