



M9/M9A Patient Monitor

High performance patient monitor for ICU / CCU / OR

Safety Standards CE Marking in accordance to Council Directive 2007/47/EC concerning Medical Devices IEC 60601-1+A1+A2; IEC 60601-1-2+A1;

Physical Specification Device dimension: 322 mm (L) x 150 mm (W) x 285 mm (H) Weight: Standard Configuration 4.2 kg (with battery)

Display Color TFT LCD 12.1" (M9) 10.4" (M9A) Resolution: 800 X 600 dpi Traces Displayed: up to 8 Waveforms Displayed: up to 13

Various Working Interface Selectable: Standard Monitoring Display Large Font Intensive Care Display Trend Graph/ Monitoring Co-Display Bed to Bed view Display (Optional) OxyCRG Dynamic View Display Drug Dose Calculation Interface Hemodynamics Calculation Interface 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s

Environment requirement Ambient Temperature: -20°C - 55°C (-4 - 131 °F) Humidity: 15%-95% non-condensing

Power Supply External Power Supply 100-240V AC, 50/60HZ Pmax=80VA Internal Battery Power Supply Type: Rechargeable Li-ion 14.8 V DC 2200 mAh 4400 mAh (optional) Battery working period: up to 4.5 hours Recharging time < 150 minutes (2200 mAh)

RESP Method: Trans-thoracic impedance Operation mode: Auto/ Manual RR Measurement range: Adult: 0-120 rPM Neonate/Pediatric: 0-150 rPM Resolution: 1rPM Apnea alarm threshold: 10s, 15s, 20s (default), 25s, 30s, 35s, 40s Alarm: Yes, audible and visual alarm, alarm events recallable 0.2-2.5Hz (3dB) Sweep speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s

ECG Lead type: 5-lead and 3-lead selectable, 12-lead optional; 3 leadwire cable: RA; LA; LL or R; L; F 5 leadwire cable: RA; LA; RL; LL; V or R; L; N; F; C 12-lead (including 3/5-lead) optional 10 leadwire cable: RA; LA; RL; LL; V1-V6 or R; L; N; F; C1-C6 Lead selection: 3-lead: I, II, III, 5-lead: I, II, III, aVR, aVL, aVF, V1-V6 12-lead: I, II, III, aVR, aVL, aVF, V1-V6 Gain selection: x0.125, x0.25, x0.5, x1, x2, x4, auto Sweep speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s ECG HR Range: Adult: 15-350bpm Pediatric/Neonate: 15-350bpm Resolution & accuracy: ±1bpm or ±1%, whichever is greater 0.05-150Hz (optional 12-lead) 0.5-40 Hz Filter: Diagnostic mode: Monitoring mode: 1-20Hz Surgical mode:

Protection: Withstand 5000VAC/50Hz voltage in isolation against defibrillation and electrosurgical interference ST-Segment Detection: Measurement range: -2.0 mV~2.0mV Alarm range: -2.0 mV~2.0mV ST-Segment Arrhythmia analysis and categorization: Yes ARR Alarm: Audible and visual alarm, alarm events recallable 12 lead ECG analysis: 208 Reference Diagnostic Results Pacemaker detection: Yes, and 5 types abnormal status detectable IEC 60601-2-25; AAMI EC 11/EC 13 IEC 60601-2-27

NIBP Method: Automatic Oscillometric Operation modes: Manual/Automatic/Continuous Auto measurement time interval: Adjustable 1/2/3/4/5/10/15/30/60/90/120/240/480 Minutes Measurement unit: mmHg/kPa selectable Measurement types: Systolic, Diastolic, Mean Pressure range for Adults: Systolic: 40 - 270 mmHg Diastolic: 10 - 215 mmHg Mean: 20 - 235 mmHg Pressure range for Pediatrics: Systolic: 40 - 200 mmHg Diastolic: 10 - 150 mmHg Mean: 20-165 mmHg Pressure range for Neonates: Systolic: 40 - 135 mmHg Diastolic: 10 - 100 mmHg Mean: 20 - 110 mmHg Leak test and pressure auto calibration: Yes Over-pressure protection: Dual Safety protection Resolution: 1mmHg Accuracy: Max mean error: ±5 mmHg Max standard deviation: ±8 mmHg Alarm: Systolic, Diastolic, Mean PR from NIBP: Measurement 40~240 bpm Resolution: 1 bpm Accuracy: ±3bpm or 3%, whichever is greater Leak test and pressure auto calibration: Yes IEC 60601-2-30 SP10: 2002

NIBP (Optional, by Omron M3600) (OMRON® is a registered trademark of Omron Corporation. SMART INFLATION™ is a trademark of Omron Healthcare Co., LTD.) Measurement Ranges Adult/Pediatric: Pulse Rate: 40 - 200bpm Systolic Pressure: 60 - 250mmHg Diastolic Pressure: 40 - 200mmHg Mean Arterial Pressure: 45 - 235mmHg Neonate: Pulse Rate: 40 - 240bpm Systolic Pressure: 40 - 120mmHg Diastolic Pressure: 20 - 90mmHg Mean Arterial Pressure: 30 - 100mmHg Measurement Accuracy Pulse Rate: ±2bpm or 2% of reading whichever is greater Blood Pressure: Complies with ANSI/AAMI SP10-2002 Measurement Modes of Measurement: Manual Long-term automatic Short-term automatic Smart Inflation™ Smart measurement High speed Two independent solid-state Dynamic Linear Deflation, rate specific to pulse rate

SpO2 Measurement & Alarm Range: 0 - 100% (BON SPO2) Resolution: 1% Accuracy: ±2% (70-100%, Adult/Pediatric); ±3% (70-100%, Neonate) PR Measurement and Alarm Range: 25 - 300bpm Resolution: 1bpm Accuracy: ±3bpm Refresh rate: 1s ISO 9919

SpO2 (Optional, by Nellcor Oximax™) Measurement & Alarm Range: 0 - 100% Resolution: 1% Accuracy: ±2.3% (70-100%, Adult/Pediatric); ±3.3.5% (70-100%, Neonate) PR Measurement and Alarm Range: 20 - 300 bpm Resolution: 1bpm; Accuracy: ±3bpm (depends on probe) Refresh rate: 1s ISO 9919

IBP (2 Channels, optional) Measurement Pressure: APT, PA, CVP, RAP, LAP, ICP, P1,P2 Measurement range: 50 - 300 mmHg Resolution: 1 mmHg Accuracy: ±2% or ±1 mmHg, whichever is greater (without probe) Sensitivity: 5 µV/V/mmHg; impedance range: 300-3000 IEC 60601-2-34

Respironics CO2 (Mainstream and Sidestream, optional) by Philips Respironics CAPNOSTAT™ 5 & LoFlo™ Technology Range: 0 - 150mmHg Accuracy: ±2% 0 - 40mmHg, ±5% 41-70mmHg, ±8% 71-100mmHg, ±10% 101-150 mmHg AwRR Accuracy: ±1 rpm Convenient design for intubated and non-intubated applications Possible to work at low sample flow rate: 50ml / minute Detailed specification refer to the user manual of Respironics ISO 21647

CO2 (Optional) Method: Thermodynamic Measuring range: CO: 0.1 L/min ~ 20L/min TB: 23°C ~ 43°C TI: -1°C ~ 27°C Alarm range: 23°C ~ 43°C

Anesthetic GAS/O2 (Optional) Technology: Infra-red absorption characteristic Gas: CO2, O2, N2O, Des, Iso, Ent, Hal, Sed Warm-up time: Iso accuracy mode: 45 s Full accuracy mode: 10 min Sample flow rate: Adul/Ped: 120, 150, 200 ml/min Neb: 70, 90, 120 ml/min Measuring range: CO2: 0 - 20% O2/N2O: 0 - 100% Hal/Isn/Ent/Sev/Des: 0 - 30% AwRR: 2 - 100 rpm MAC Value display ISO 21647

Temperature (2 Channels, 1 probe by default) Measurement /Alarm range: 0-50°C (32-122 °F) Probe type: YSI (B Series) and CF-FI Resolution: 0.1°C Accuracy: 0.1°C (without probe) Channel: Dual-channel. Provide T1, T2, T IEC 12470-4

Thermal Recorder (Optional) Built-in, direct thermal plot array recorder Up to 3 channels printing, 12, 3 channels selectable Print speed: 25mm/s, 50mm/s Paper width: 50 mm I/O Interface USB Port, RJ-45 Ethernet Port, IEEE 802.3, Nurse Call output WLAN Access Point 802.11g 54Mbps (optional) ISO 21647

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Feature

- 12.1" / 10.4" color TFT display with maximum 13 waveforms simultaneously
Light (4.2kg with battery), portable and easy-to-use
Conventional diagnostic 12-lead ECG (optional) for cardiac monitoring
Pacemaker detection and defibrillation protection
Arrhythmia and S-T segment analysis
Respironics sidestream and mainstream CO2 for intubated and non-intubated application
4 kinds display modes to meet different critical care needs
OxyCRG is available to judge the respiration and circulation function for neonates
Customize alarm limits display around the individual patients condition
Long time frozen waveform review (up to 720s)
Large internal data storage for 96-hour graphic and tabular trends of all parameters, 500 NIBP measurements and 60 alarm events
USB interface and data safety storage for unexpected power-off
Built-in rechargeable Li-ion battery
Nurse Call function and bi-directional communication with MFM-CMS central station
Complete and flexible mounting solution for ICU and operation room
Data management by PatientCare viewer PC software

Standard configuration: 3/5 lead ECG, BON NIBP, BON SpO2, RESP, 2-TEMP, PR
Optional: BON 12-lead ECG, Nellcor SpO2, 2-IBP, Omron M3600 NIBP, CO2, C.O., Anesthetic Gas/O2, Thermal recorder, Mounting systems, WLAN kit



ECG Module (EDAN E8, optional)

- Continuous 12-lead ECG waveform display, ST Segment analysis and alarm
Automatically 208 kinds of analysis results, up to 16 kinds of arrhythmias, 50 sets 12-lead analysis result review, 10s of 12-lead waveform to review and print out
SEMIP interpretation has tested by CSE and AHA database



NIBP(Optional, by Omron M3600)

- Smart Inflation™ for comfortable measurement experience for the patient
Dynamic Linear Deflation for faster measurements
Dual Systems for safety



Anesthetic Gas/O2 (Optional)

- Automatic identification of five anesthetic agents
Simultaneous display of inspired and expired of concentrations of anesthetic agent, O2, CO2 and N2O
Automatic calibration
Suitable for adult, pediatric and neonatal patients



Clinical Network Solution

- Bi-directional communication with BON MFM-CMS central station by wired or wireless connection Nurse call



Mounting Solution

- Complete and flexible mounting solution for ICU and operation room. With a variety of highly innovative mounting systems, M9's wall mount and rolling stand offer you more versatile interactions with the healthcare environment than ever before.

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