M8 / M8A Patient Monitor

- 12.1”/10.4” color TFT display
- Standard parameters: ECG, SpO₂, Resp, NIBP, 2-Temp, PR, optional parameters: 2-IBP, EtCO₂
- 7 leads ECG analysis
- Respironics sidestream and mainstream EtCO₂ measurement for intubated and non-intubated patients
- Nellcor OxiMax / EDAN SpO₂
- SpO₂ pulse-tone modulation (Pitch Tone)
- OxyCRG for neonatal monitoring
- Arrhythmia analysis, ST segment analysis
- 120 seconds full-disclosure waveforms review
- Pacemaker detection
- Bi-directional communications with EDAN central monitoring system by wireless or wire network
- Powerful data storage capacity (96 hours graphic and tabular trends of all parameters, 500 NIBP measurement results, 60 alarm events)
- USB data storage and review
- Nurse call
- Built-in rechargeable Li-Ion battery
- Three channels printing
M8 / M8A
Patient Monitor

Technical Specifications

Safety
IEC60601-1 approved, CE marking according to MDD93/42/EC

Dimension and Weight
Dimension: 320mm(W)×150mm(D)×265mm(H) Weight: M8 4.4 kg M8A 5.9 kg

Operation Environment
Temperature: 5 ~ 40 °C Humidity: 25% ~ 93% (non-condensation)

Power: AC 100 ~ 240 V 50/60 Hz

Performance Specifications
Display: 12"(30.5 cm) TFT (M8 12.1"
Resolution: 800x600 dots
Waveforms: 11 waveforms maximum
Indicators: Alarm indicator, Power indicator, Charging indicator (OSD, beep and alarm sound)
Interface: Network port, USB port
Battery: Rechargeable Li-ion battery (Maximum: 6.5 hours with full capacity)
Recall: 1-96 hours trend recall
Alarm: 3-level audible and visual alarm
Recorder: Built-in, thermal array: 3 traces
Paper width: 48mm
Record speed: 25mm/s, 50mm/s

ECG
Lead Mode: 3 Leads (R, L, F or RA, LA, LL), 5 Leads (R, L, F, N, C or RA, LA, LL, VL, V5), 4 selectable plus: x 0.25, x 0.5, x 1, x 2 cm/s, Manual PACD detection
Detection leads: 7 selectable leads: I, II, III, aVR, aVL, aVF, V1
Input voltage range: ±55mV, ±500mV, ±500mV
CMRR: Diagnosis ≥100 dB (50Hz/60Hz software wave trap) Monitor ≥110 dB (50Hz/60Hz software wave trap) Surgery ≥100dB (50Hz/60Hz software wave trap)
HR Measuring and Alarm Range
Adult/Ped: 15 bpm ~ 300 bpm
Neo: 15 bpm ~ 250 bpm
Accuracy ±1% or ±1 bpm, whichever is greater
Resolution 1 bpm
Sensitivity: ≥ 200 µV/p.p
Differential Input Impedance: ≥ 5 MΩ
Electrode offset potential: ≤500mV
Leakage Current: < 10 µA
ECG Signal Range: ±8mV (7p-p)
8T Segment Monitoring Range
Measuring and Alarm -2.0 ≤ +2.0 mV

Respiration
Method: Impedance between R-F (RA-LL) and L-R (LA-RA)
Resp Rate Measurement and Alarm Range:
Adult: 0 rpm ~ 120 rpm
Neonate: 0 rpm ~ 150 rpm
Resolution 1 rpm
Accuracy ±2 rpm
Gain Selection: x0.25, x0.5, x1, x2, x3, x4, x5
NIBP
Method: Oscillometric
Mode: Manual, Auto, Continuous
Measuring Interval in AUTO Mode: 1/2/3/4/5/10/15/30/60/90/120/240/480/900min
Cuff Pressure measuring Range: 20 ~ 290 mmHg
Pressure Resolution: 1mmHg
Pressure Accuracy: ±3% or ±3mmHg
Mean error: ±5mmHg
Maximum Standard deviation: ±3mmHg
Overpressure protection Dual Overpressure protections
Adult: 287±13mmHg
Pediatric: 240±13mmHg
Neonatal: 145±3mmHg
Adult: 40 ~ 240 bpm
Resolution 1bpm
Accuracy ±3bpm or 3.5% of the maximum
SpO2 Measuring Range: 0 ~ 100%
Alarm Range: 0 ~ 100%
Resolution 1%
Accuracy Adult (including Pediatric) ≥70%/~100% SpO2:
Noninvasive: Defined (~70% SpO2)
Nellcor: Defined (~70% SpO2)
Pulse Rate
Measuring and Alarm Range: 3b ~ 25bpm
Resolution 1bpm
Accuracy ±2bpm
Under Motion Condition: ±2bpm
Nellcor module (optional)
Measuring Range: 1 ~ 100%
Alarms: 1 ~ 100%
Respiration: 1%
Accuracy Adult and Low-perfusion: ±2% (~70%/~100% SpO2)
Noninvasive: Defined (~70% SpO2)
Nellcor: Defined (~70% SpO2)
Pulse Rate
Measuring and Alarm Range: 20 ~ 300 bpm
Resolution 1bpm
Accuracy ±2bpm

Accuracy
Low Perfusion: 0.03% ± 20%

Temperature
Channel: 2
Measuring Range: 0 ~ 60 °C
Sensor type: YSB (B Series) and CF-F1
Resolution: 0.1 °C
Accuracy: ±0.1 °C (20 ~ 45 °C)
±0.2 °C (2 ~ 25 °C, 45 ~ 50 °C)

(I2P optional)
Channel: 2
Label: ART, PA, CVP, RAP, LAP, PCP, PI, P2
Static Pressure Measuring Range: ±50 ~ ±300 mmHg (up to 350 mmHg)
Static Pressure Accuracy: ±2% or ±1mmHg which is greater
Dynamical Pressure Measuring Range: ±50 ~ ±300 mmHg
Dynamical Pressure Accuracy: ±2% or ±1mmHg which is greater

Measuring and Alarm Range
ART: 0 ~ 500 (mmHg)
PA: 6 ~ 120 (mmHg)
CVP/RAP/LAP/PCP: -10 ~ 40 (mmHg)
P1/P2: -50 ~ 300 (mmHg)
Resolution: 1 (mmHg)

CO2 (optional)
Method: Infrared Absorption Technique
Measuring mode: Sidestream or mainstream
Measuring range
CO2: 0 ~ 150mmHg
Alarm: 2 ~ 150 mmHg
Resolution: 1mmHg, 0.1% LA
CO2: 1mmHg
INSOCO2: 1mmHg
Alarm: 1 rpm

Accuracy
CO2: ±2mmHg, 0 ~ 40 mmHg
Reading ±4%, 40 ~ 70 mmHg
Reading ±6%, 70 ~ 150 mmHg
Reading ±10%, 101 ~ 150 mmHg
Alerting: 1 rpm
Authorization Alarm Delay
Alarm: 10 ~ 40 seconds
Response time: 0 seconds, includes transport time, line time
calculated method: BTPS (Body Temperature Pressure Saturation)
Sample Gas Flowrate: 50ml/min
Stability
Short-term Drift: Drift over 4 hours ≤ 0.8 mmHg
Long-term Drift: 120 hour period
O2 Compensation
Range: 0 ~ 100%
Resolution: 1%
Default: 16%

Standard configurations: ECG, NIBP, RESP, EDAN SpO2-3, TEMP, Li-ion Battery
Optional configurations: Nellcor SpO2-2, IBP, ECO2, Thermo Recorder

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