



M8 / M8A Patient Monitor

- 12"/10" color TFT display
- ECG, SpO₂, Resp, NIBP, 2-Temp, PR, 2-IBP, EtCO₂
- 120 seconds full-disclosure waveforms review
- Nellcor Oximax / EDAN SpO₂
- SpO₂ pulse-tone modulation (Pitch Tone)
- OxyCRG for neonatal monitoring
- 7 leads ECG analysis
- Arrhythmia analysis, ST segment analysis
- Built-in rechargeable Li-ion battery
- Networkable with central monitoring system
- Powerful data storage capacity (96 hours graphic and tabular trends of all parameters, 500 NIBP measurement results, 60 alarm events)
- Large font display
- Pacemaker detection
- Nurse call



7 Leads ECG Display Mode



96 Hours Trend Graph



Comprehensive Arrhythmia Review



Large font Display



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M8 / M8A Patient Monitor



Technical Specifications

Safety

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

Dimension and Weight

Dimension: 318mm(W)x152mm(D)x264mm(H)

Weight: 5kg

Operation Environment

Temperature: 5 ~ 40 °C

Humidity: 25% ~ 95% (non-condensing)

Power: AC 100 ~ 240 V, 50/60 Hz

Performance Specifications

Display: 12" / 10" color TFT (M8 12", M8A 10")

Resolution: 800x600

Waveforms: 11 waveforms maximum

Indicator: Alarm indicator

Power indicator

Charging indicator

QRS beep and alarm sound

Interface: Network port

Battery: Rechargeable Li-ion battery

Maximum 4.5 hours with full capacity

Recall: 1-96 hours trend recall

Alarm: 3-level audible and visual alarm

Recorder: Built-in, thermal array

2 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, RL, V)

4 selectable plus: x 0.25, x 0.5, x 1, x 2 cm/mV

PACE detection

Detection leads 7 selectable leads: I, II, III, avR, avL, avF, V

Input voltage range ±8mV, polarized voltage: ±500mV

CMRR

Diagnosis >100 dB (no 50Hz/60Hz software wave trap)

Monitor >110 dB (has 50Hz/60Hz software wave trap)

Surgery >100dB (50Hz/60Hz software wave trap)

HR Measuring and Alarm Range

Adult/Ped 15 bpm ~ 300bpm

Neo 15 bpm ~ 350bpm

Accuracy ±1% or ±1bpm, which great

Resolution 1 bpm

Sensitivity > 200 µV P-P

Differential Input Impedance ≥ 5 MD

Electrode offset potential 300mVd.c. ±600mVd.c.

Leakage Current < 10 µA

ECG Signal Range ±6 mV (Vp-p)

ST Segment Monitoring Range

Measure and Alarm -2.0 ~ +2.0 mV

RESPIRATION

Method Impedance between R-F (RA-LL)

Resp. Rate Measuring and Alarm Range:

Adult 0 rpm ~ 120rpm

Neo/Ped 0 rpm ~ 150rpm

Resolution 1 rpm

Accuracy ±2 rpm

Gain Selection x0.5, x1, x2, x4, Auto

NIBP

Method Oscillometric

Mode Manual, Auto, Continuous

Measuring Interval in AUTO Mode

1/2/3/4/5/10/15/30/60/90/120/240/480Min

Cuff Pressure measuring Range 0~280mmHg

Pressure Resolution 1mmHg

Pressure Accuracy

Mean error ±5mmHg

Maximum Standard deviation ≤8mmHg

Overvoltage protection Dual Overvoltage protection

Adult 297±3mmHg

Pediatric 240±3mmHg

Neonatal 150±3mmHg

SPO₂

Measuring Range 0 ~ 100 %

Alarm Range 0 ~ 100 %

Resolution 1 %

Accuracy

Adult (including Pediatric) ±2digits (70%~100% SpO₂)

Undefined (0~70% SpO₂)

Neonate ±3digits (70%~100% SpO₂)

Undefined (0~70% SpO₂)

Pulse Rate

Measuring and Alarm Range 15-254bpm

Resolution 1bpm

Accuracy ±3bpm

Under Motion Condition ±5bpm

Nellcor module (optional)

Measuring Range 1 ~ 100 %

Alarm Range 1 ~ 100 %

Resolution 1 %

Accuracy

Adult and Low-perfusion ±2digits (70%~100% SpO₂)

Undefined (0~70% SpO₂)

Undefined (0~70% SpO₂)

Neonate ±3digits (70%~100% SpO₂)

Undefined (0~70% SpO₂)

Pulse Rate

Measuring and Alarm Range 20-250bpm

Resolution 1bpm

Accuracy ±3bpm

Low Perfusion 0.03 % ~ 20 %

TEMPERATURE

Channel 2

Measuring Range 0 ~ 50 °C

Sensor type YSI (B series) and CF-FI

Resolution 0.1 °C

Accuracy ±0.1°C (20 ~ 45°C)

±0.2 °C (0~25°C, 45~50°C)

IBP

Channel 2

Label ART, PA, CVP, RAP, LAP, ICP, P1, P2

Static Pressure Measuring Range

-50~+300 mmHg (up to 350 mmHg)

Static Pressure Accuracy

±1% or 1mmHg which great (excluding probe)

±4% or 4mmHg which great (including probe)

Dynamical Pressure Measuring Range -50~+300 mmHg

Dynamical Pressure Accuracy

±4% or 4mmHg which great (including probe)

Measuring and Alarm Range

ART 0 ~ 300 (mmHg)

PA -10 ~ 120 (mmHg)

CVP/RAP/LAP/ICP -10 ~ 40 (mmHg)

P1/P2 -10 ~ 300 (mmHg)

Resolution 1 (mmHg)

CO₂

Method Infra-red Absorption Technique

Measuring mode Sidestream

Measuring range

CO₂ 0 ~ 99 mmHg

INSCO₂ 0 ~ 99mmHg

AwRR 0 ~ 150 rpm

Resolution

CO₂ 1 mmHg

INSCO₂ 1mmHg

AwRR 1 rpm

Accuracy

CO₂ ± 2 mmHg, 0 ~ 40 mmHg

Reading ± 8%, 41 ~ 76 mmHg

Reading ±10%, 77 ~ 99 mmHg

AwRR ± 2 rpm

Alarm range

CO₂ ADU 15 ~ 50 mmHg

PED 20 ~ 50 mmHg

NEO 30 ~ 45 mmHg

InsCO₂ ALM HI 4 mmHg

AwRR ADU 8 ~ 30 rpm

PED 8 ~ 30 rpm

NEO 30 ~ 100 rpm

Suffocation Alarm Delay

AwRR 10-40 seconds

Specification subject to change without prior notice

Standard configurations: ECG, NIBP, RESP, EDAN SpO₂, 2-TEMP, Li-ion Battery

Optional configurations: Nellcor SpO₂, 2-IBP, EtCO₂, Thermal Recorder