



MEC-1000 PATIENT MONITOR

- 10.4" color TFT display with 4 waveforms
- Parameters including ECG, RESP, SpO₂, NIBP, TEMP
- Suitable for adult, pediatric and neonatal patient
- 72-hour graphic and tabular trends of all parameters
- SpO₂ pulse-tone modulation (Pitch Tone)
- Audible and visual alarms with adjustable alarm ranges
- Networking capacity

MEC-1000

PATIENT MONITOR

Technical Specifications

Safety

Meet the requirements of IEC60601 series, CE marking according to MDD93/42/EEC

Size and Weight

Dimensions: 318mm (W) x 264mm (H) x 152mm (D)
Weight: 4 kg

Operation Environment

Power: AC100~240V, 50/60 Hz
Temperature: 0~40°C
Humidity: 15~95%

Patient Range

Adult, pediatric and neonatal

Performance Specifications

Display: 10.4" color TFT
Resolution: 800x600
Trace: 4 waveforms
Sweep speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
Indicator: Alarm indicator
Power indicator
QRS beep and alarm sound
Networking: Connected to Mindray Hypervisor III central system
Interface: Net Port
Battery: Rechargeable
Trend time: 1~72 hours
Alarm: 10-level audible and visual alarm
Recorder: Built-in, thermal array, 2 channels
Record width: 48 mm (record paper 50mm)
Record speed: 25 mm/s, 50 mm/s

ECG

Input: 3-lead: R; L; F or RA; LA; LL
Lead selection: I; II; III
ECG waveform: 1 channel (the 2nd waveform cascade)
Gain selection: x0.25; x0.5; x1; x2; auto
Sweep speed: 12.5mm/s, 25mm/s, 50mm/s
Heart Rate Range: Adult: 15~300bpm
Pediatric/Neonatal: 15~350bpm
Accuracy: ± 1 bpm or $\pm 1\%$, whichever is greater
Resolution: 1bpm
Protection: Withstand 4000VAC/50Hz voltage in isolation against electrosurgical interference and defibrillation
CMRR: Diagnostic mode: ≥ 90 dB
Monitor mode: ≥ 105 dB
Surgery mode: ≥ 105 dB
Operation modes: Diagnostic, Monitor, Surgery

Pace Detection: YES
Alarm range: Adult: 15~300bpm
Pediatric/Neonatal: 15~350bpm
S-T detection: YES
Measurement range: -2.0mV~2.0mV
Alarm range: -2.0mV~2.0mV
Arrhythmia analysis: YES
Alarm: YES, audible and visual alarm, alarm Events recallable

Respiration

Method: Impedance between R-F (RA-LL)
Measurement range: Adult: 0~120BrPM
Pediatric/Neonatal: 0~150BrPM
Resolution: 1BrPM
Accuracy: ± 2 BrPM
Alarm range: Adult: 0~120BrPM
Pediatric/Neonatal: 0~150BrPM
Apnea alarm: 10~40(s)

NIBP

Method: Oscillometric
Operation modes: Manual/Automatic/STAT
Measurement unit: mmHg/Kpa selectable
Measurement types: Systolic, Diastolic, Mean
Measurement range: Adult: 10~270mmHg
Pediatric: 10~200mmHg
Neonatal: 10~135mmHg
Over-pressure protection: YES
Resolution: 1mmHg
Accuracy: Mean error and standard deviation per ANSI/AMI SP-10
Alarm: Systolic, Diastolic, Mean

Temperature (Surface and Intracavity)

Measurement range: 0~50°C
Resolution: 0.1°C
Accuracy: ± 0.1 °C (not including probe)
Channel: 1 channel
Alarm range: 0~50°C

SpO₂

Measurement range: 0~100%
Resolution: 1%
Accuracy: (70~100%) $\pm 2\%$ (Adult, Pediatric), $\pm 3\%$ (Neonate)
0~69% unspecified
Alarm range: 0~100%
Pulse Rate: Range: 20~254bpm
Resolution: 1bpm
Accuracy: ± 2 bpm or 2%, whichever is greater
Alarm range: 0~254bpm

Languages: Chinese, English, French, German, Italian, Spanish, Portuguese, Polish, Russian, Turkish, Czech, Finnish, Dutch, Danish, Hungarian

Standard configuration:
ECG, RESP, NIBP, SpO₂, TEMP, One Battery

Optional configuration:
Thermal Recorder, Second Battery



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