



MEC-1200 Patient Monitor



- 8.4" color TFT display with 4 waveforms
- Suitable for adult, pediatric and neonatal patient care
- Basic parameters (ECG, RESP, TEMP, SpO₂, NIBP) in a durable case for bedside monitoring and transport
- Audible and visual alarms with adjustable alarm ranges
- SpO₂ pulse-tone modulation (Pitch Tone)
- Full mounting solutions including wall mount, rolling stand, bedrail clamp and hook
- Networkable with central monitoring system
- Powerful data management and storage capacity

(72-hour graphic and tabular trends for all parameters, 400 NIBP measurements, 60 alarm events, 60 arrhythmia events with waveforms, etc.)

MEC-1200

Patient Monitor

Technical Specifications

Safety

Meet requirement of IEC60601-1

Dimension and weight

Dimension: 258(W) x 118(D) x 244(H) mm
Weight: 5.0kg (max)

Power Supply

Power Source: AC mains power or Internal battery power

AC Mains Power Source

Power Requirements: AC 100~240V (±10%)
Line Frequency: 50/60 Hz (±3Hz)
Consumption: 80W

Battery Power(optional)

The maximum number of installed battery: 1
Battery Capacity: 2.3amp-hour
Operating time: 120 minutes under the normal use and full charge

Storage Environment

Temperature: -20°C to +60°C
Humidity: 10% to 95%, non-condensing

Operation Environment

Temperature: 0°C to +40°C
Humidity: 15% to 95%, non-condensing

Patient Range

Adult, pediatric and neonatal

Performance Specification

Display: 8.4" color active matrix TFT
Resolution: 800x600
Trace: 4 waveforms
Sweep Speed: 6.25, 12.5, 25 and 50mm/s
Indicator: Alarm indicator light
Power indicator light
Audio indicators for QRS beep and alarm sound

Interface: Networking
Battery: Rechargeable
Trend time: 1~72 hours
Alarm: 3-level audible and visual alarm
Recorder(optional): Built-in, thermal array, 2 channels
Record width: 48mm, (record paper 50mm)
Record speed: 25mm/s, 50mm/s

ECG

Lead Type: 3-lead
Input: 3-lead: RA; LA; LL or R; L; F
Lead Selection: 3-lead: I; II; III
ECG Waveform: 1 channel
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: 1BPM or ±1%, whichever is greater
Resolution: 1BPM
Protection: Withstand 4000VAC/50Hz voltage in isolation.
Anti-electrosurgical interference and defibrillation

Standard Configuration

ECG, RESP, NIBP, TEMP, SpO₂

Options

Thermal Recorder, Lead Acid Battery

CMRR: Diagnostic mode: > 90 dB
Monitor mode: > 105 dB
Surgery mode: > 105 dB
Calibration Signal: 1mV 5%
Bandwidth: Diagnostic mode: 1~15 Hz
Monitor mode: 0.5~35 Hz
Surgery mode: 0.05~100 Hz
Alarm Range: Adult: 15-300 BPM
Pediatric/Neonatal: 15-350 BPM
S-T detection: YES
Measurement range: -2.0mV~2.0mV
Alarm range: -2.0mV~2.0mV
Arrhythmia analysis: YES
Pacemaking analysis: YES
Alarm: YES, audible and visual alarm, alarm events recallable

Respiration

Method: RA-LL impedance
Measurement Range: Adult: 0~120 BrPM
Pediatric/Neonatal: 0~150BrPM
1 BrPM
Resolution: ±2% or ±2 BrPM, whichever is greater
Accuracy: Adult: 0~120 BrPM
Pediatric/Neonatal: 0~150 BrPM
Apnea Alarm: YES, and apnea delay: 10-40 seconds

NIBP

Method: Oscillometric
Operation Modes: Manual/Automatic/Continuous
Measurement Unit: mmHg/kPa selectable
Measurement Types: Systolic pressure, Diastolic pressure and Mean pressure
Measurement Range: Adult: 10-270 mmHg
Pediatric: 10-200 mmHg
Neonatal: 10-135 mmHg
Over-pressure Protection: YES
Resolution: 1 mmHg
Accuracy: Maximum Mean error: 5mmHg
Maximum Standard deviation: 8mmHg
Alarm: Systolic, Diastolic and Mean

Temperature

Scale: 0°C and °F selectable
Measurement Range: 0~50 oC or 32-122°F
Resolution: 0.1 oC or 0.1 °F
Accuracy: ± 0.1 C (0°C to 50°C), exclusive of probe errors
± 0.2 F (32°F to 122°F), exclusive of probe errors
Channel: 1 channel
Alarm Range: 0~50 °C

SpO₂

SpO₂
Range: 0~100%
Accuracy: 70% ~ 100%: 2%
0% ~ 69%: unspecified

Pulse Rate

Range: 20-254 BPM
Accuracy: 3 BPM



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