

M-9000E

Patient Monitor

(12.1 inch)



Feature

1. 12.1-inch Six Standard parameters: ECG, RESP, NIBP, SPO2, 2_TEMP, PR/HR
2. 13 Type Arrhythmic Analysis, Multi_Lead ECG Waveforms Display in Phase, Real time S_T segment analysis, pacemaker detection Drug calculation and titratitable;
3. Efficient resistance to interference of defibrillator and electrosurgical cautery;
4. SPO2 can testing for 0.1% Weak;
5. RA-LL impedance Respiration;
6. Trend Coexist Display;
7. OxyCRG DyNamic View Display;
8. Bed to Bed view Display;
9. Networking capacity and nurse calling system;
10. Options of Internal Recorder, IBP, EtCO2, Central Monitoring System, Touch Screen, VGA, Neonate SPO2
11. Built-in rechargeable battery 4400mAh;
12. 12.1" high resolution color TFT LCD display;
13. Large volume of tabular and graphic trends information storage and easy to recall;
14. Anti-ESU, anti- defibrillator;
15. Capture dynamic waveforms.

Technical Specification

ECG

Lead Mode: 5 Leads (R, L, F, N, C or RA, LA, LL, RL, V)

Lead selection: I, II, III, avR, avL, avF, V,

Waveform: 2 ch

Lead mode: 3 Leads (R, L, F or RA, LA, LL)

Lead selection: I, II, III,

Waveform: 1 ch

Gain: '2.5mm/mV, '5.0mm/mV, '10mm/mV, '20mm/mV, auto

Heart Rate and Alarm

Range

-Adult: 15 ~ 300 bpm

-Neo/Ped: 15 ~ 350 bpm

Accuracy: $\pm 1\%$ or ± 1 bpm, which great

Resolution: 1 bpm

Sensitivity: >200 (μ V P-P)

Differential Input Impedance: > 5 M Ω

CMRR

-Monitor: > 105 dB

-Operation: > 105 dB

-Diagnosis: > 85 dB

Electrode offset potential: ± 300 mV

Leakage Current: <10 μ A

Baseline Recovery: < 3S after Defi.

ECG Signal Range: ± 8 m V (Vp-p)

Bandwidth

-Surgery: 1 ~ 15 Hz

-Monitor: 0.5 ~ 35 Hz

-Diagnostic: 0.05 ~ 100 Hz

Calibration Signal: 1 (mV p-p), Accuracy: $\pm 5\%$

ST Segment Monitoring Range: Measure and Alarm -2.0 ~ +2.0 mV

ARR Detecting

Type: ASYSTOLE, VFIB/VTAC, COUPLET, BIGEMINY, TRIGEMINY, R ON T, VT>2, PVC, TACHY, BRADY, MISSED BEATS, PNP, PNC

Alarm: Available

Review: Available

Respiration

Method: Impedance between R-F (RA-LL)

Differential Input Impedance: >2.5 M Ω

Measuring Impedance Range: 0.3 ~ 5.0 Ω

Base line Impedance Range: 0 ~ 2.5 K Ω

Bandwidth: 0.3 ~ 2.5 Hz

Resp. Measuring Range:

-Adult: 0 ~ 120 rpm

-Neo/Ped: 0 ~ 150 rpm

Resp. Alarm Range:

-High alarm range limit: 8~120 rpm

-Low alarm range limit: 6~120 rpm

Resolution: 1 rpm

Accuracy: ± 2 rpm

Apnea Alarm: 10 ~ 40 S

NIBP

Method: Oscillometric

Mode: Manual, Auto, STAT

Measuring Interval in AUTO Mode: 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240, 480 (Min)

Measuring Period in STAT Mode: 5 Min

Pulse Rate Range: 40 ~ 240 bpm

Alarm Type: SYS, DIA, MEAN

Measuring and alarm range

Adult Mode

-SYS: 40 ~ 270 mmHg

-DIA: 10 ~ 215 mmHg

-MEAN: 20 ~ 235 mmHg

Pediatric Mode

-SYS: 40 ~ 200 mmHg

-DIA: 10 ~ 150 mmHg

-MEAN: 20 ~ 165 mmHg

Neonatal Mode

-SYS: 40 ~ 135 mmHg

-DIA: 10 ~ 100 mmHg

-MEAN: 20 ~ 110 mmHg

Resolution Pressure: 1mmHg

Accuracy Pressure Maximum Mean error: ± 5 mmHg

Maximum Standard deviation: ± 8 mmHg

Overpressure Protection

-Adult Mode: 297 ± 3 mmHg

-Pediatric Mode: 240 ± 3 mmHg

-Neonatal Mode: 147 ± 3 mmHg

SpO₂

Measuring Range: 0 ~ 100 %

Alarm Range: 0 ~ 100 %

Resolution: 1 %

Accuracy: 70% ~ 100% $\pm 2\%$; 0% ~ 69% unspecified

Actualization interval: about 1 Sec.

Alarm Delay: 10 Sec.

Pulse Rate

Measuring and Alarm Range: 20~300bpm

Resolution: 1bpm

Accuracy: ± 2 bpm

Temperature

Channel: 2

Measuring and Alarm Range: 0 ~ 50°C

Resolution: 0.1°C

Accuracy: $\pm 0.1^\circ\text{C}$

Actualization interval: about 1 Sec.

Average Time Constant: <10 Sec.

IBP (optional)

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

Measuring and alarm range

-ART: 0 ~ 300 mmHg

-PA: -6 ~ 120 mmHg

-CVP/RAP/LAP/ICP: -10 ~ 40 mmHg

-P1/P2: -10 ~ 300 mmHg

Press Sensor

Sensitivity: 5uV/V/mmHg

Impedance: 300-3000 Ω

Resolution: 1 mmHg

Accuracy: $\pm 2\%$ or ± 1 mmHg, which great

Actualization interval: about 1 Sec

Standard Packing List

5-lead ECG cable (including RESP)

Adult finger SpO2 sensor

Adult NIBP cuff

NIBP extension tube

TEMP sensor

AC power adaptor

ECG electrodes

Operation instruction

Optional Function

Internal Recorder, IBP, EtCO2, Central Monitoring System, Touch Screen, VGA, Neonate SPO2