



- 12.1" color TFT with maximum 8 waveforms
- Suitable for adult, pediatric and neonatal patients
- Parameters including ECG, RESP, SpO<sub>2</sub>, NIBP,2-TEMP, 2-IBP, C.O., EtCO<sub>2</sub>
- 96-hour graphic and tabular trends of all parameters
- Optional built-in recorder and CF card (for power off storage)
- Networkable with central monitoring system



## MEC-2000 PATIENT MONITOR

## **Technical Specifications**

Safety

IEC60601-1 approved

Dimension and Weight

318mm (W) x 270mm (H) x 145mm (D) Dimension:

Weight: 4.7 kg

**Operation Environment** 

Power requirement: AC100-240V, 50Hz/60Hz

Performance Specifications

Display: 12.1" colorTFT(diagonal)

Rolling and refreshing waveform display

Trace. 8 waveforms Resolution: 800X600

Multi displays selectable:

Standard screen display Trend coexist screen display OxyCRG screen display Viewbed screendisplay Large-font screen display

Lead-Acid battery: Rechargeable

(for 2 pieces) Maximum 12 hours forcharging; 2 hours for continuous working

Trend time: 1-96hours

User-adjustable High and Low limits Alarm:

3-level audible and visual alarm

Networking: Connected to centralmonitoring system Built-in, thermal array, 2 channels Recorder:

Record mode: manual, on alarm,

time-defined, etc.

Print speed: 25mm/s, 50mm/s

**FCG** 

Lead type: 5-lead and 3-lead selectable 5 leadwire cable:RA; LA; RL; LL; V Input:

(or R; L; N; F; C)

3 leadwire cable: RA; LA; LL (or R; L; F)

5 lead: I; II; III; avR; avL; avF; V Lead selection:

3 Lead: I; II; III;

x0.125;x0.25;x0.5; x1;x2; auto Gain selection: Sweep speed: 12.5mm/s, 25mm/s, 50mm/s

Heart Rate range: Adult: 15-300bpm,

Pediatric/Neonate 15-350bpm

Resolution:

 $\pm$ 1bpm or  $\pm$ 1%, whichever is greater Accuracy: Bandwidth: Diagnostic mode: 0.05~100Hz

> Monitoring mode: 0.5~40Hz Surgical monde: 1~20Hz

Protection: Withstand 4000 VAC/50 Hz voltage in isolation. Against electrosurgical

interference and defibrillation

Scaling Signal: 1mV + 5%

Alarm range: 15~350bpm S-T segment detection: YES

Measurement range: -2.0mV~2.0mV

Alarm range: -2.0mV~2.0mV

Arrhythmia analysis: YES

Alarm: YES, audibleand visual alarm, alarm events recallable

Pace detection: YES

Respiration

Method: Thoracic impedance Adult: 0-120BrPM: Measurement Range:

Neonata:/Pediatric: 0-150BrPM

YES Annea alarm:

Alarm: YES.audible and visual alarm.

alarm event recallable

NIBP

Method: Automatic oscillometric

Operation modes: Manual/Automatic/Continuous

Adjustable Auto measure time:

Measurement unit: mmHg /kPa selectable Measurement type: Systolic, Diastolic, Mean

Measurement range: Range of Systolic pressure:

40-270mmHg Adult mode: Pediatric mode: 40-200mmHg Neonatal mode: 40-135mmHg

Range of Diastolic pressure:

Adult mode: 10-210mmHa Pediatric mode: 10-150mmHg Neonatal mode: 10-100mmHg

Range of Mean pressure:

Adult mode: 20-230mmHg Pediatric mode: 20-165mmHg Neonatal mode: 20-110mmHg

Accuracy of blood pressure measurement:

The mean errorshall be less than ±5 mmHg The standard deviation shall be lessthan ±8mmHg

Over-pressure protection: Doublesafety protection

Resolution: 1mmHg

Systolic, Diastolic, Mean Alarm:

Measurement range: 0~100%

Resolution:

Accuracy:

 $\pm$ 2% (70%~100%, Adult/Pediatric,non-motion)

 $\pm$ 3% (70%~100%, Neonate, non-motion)

 $\pm$ 3% (70%~100%, Adult/Pediatric/Neonate, motion)

0~69% unspecified 1~100% Alarm range:

Range: 20~254bpm Pulse Rate:

Resolution: 1bpm

Accuracy: ±3bpm(non-motion);

±5bpm(motion)

Temperature

Measurement: Range: 0~50°C(32~122°F)

Resolution: 0.1°C Accuracy: ±0.1℃

Dual-channel, provideT1; T2; △T Channel: Alarm: 3-level audible and visual alarm

IRP

Measurement range: -50~300mmHg

Channel: 2 channels

Pressure Transducer: Sensitivity: 5 µ V/V/mmHg Impedance range:  $300 \sim 3000 \Omega$ Pressure names: ART, PA, CVP, RAP, LAP, ICP, P1, P2

Resolution: 1 mmHg

Accuracy:  $\pm$ 2% or  $\pm$ 1 mmHg whichever isgreater

Alarm range: -10~300mmHg

C.O.(Cardiac Output)

Themodilution Method: Measurement range: CO:0.1~20I/min

> TI: 0~27°C CO:0.1 I/min TB: 0.1℃

TB: 23~43°C

TI: 01℃ Accuracy: CO+5% or 0.1 l/min

TB: ±0.1℃ TI: ±01℃

Parameter output: Cardiacoutput; Hemodynamics

calculation

FtCO2

Resolution:

Method: Infrared Absorption Measurement Mode: Sidestream Measurement range: EtCO2:0~99mmHg Accuracy:  $\pm 2$ mmHg(0~40mmHg)

 $\pm$ 5% of reading (41~76mmHg),  $\pm$ 10% of reading (77~99mmHg)

Sampling rate: 100 or 150 ml/min Sampling rate accuracy: 0.15

Start-up time:

<1min. the module entersthe warming up status

after the startup.

10 minutes later, it enters theready-to-measure status

Respiration rate: 0~120BrPM

Respiration rate accuracy: ±2BrPM (0~70BrPM) ±5BrPM (>70BrPM)

Response time: <240ms(10% to 90%) Delay time: < 2s(Sampling line length:7inches; internal diameter: 0.055 inches, sampling gasflow

rate: 150ml/min)

Standard Configuration: ECG, NIBP, RESP, Mindray SpO<sub>2</sub>, PR, Dual-TEMP, Lead AcidBattery

Optional Configuration: Dual-IBP,CO, EtCO2 (side-stream), Thermal recorder, CF Card (for power offstorage)



























