



MODEL M4 NOVA

**Vital Sign Monitoring System with ECG / Resp,
SpO₂, NIBP, Temp. & Pulse Rate
Upgradeable to IBP & EtCO₂**



Key Features

- 8.4 inch superior resolution colour TFT LCD
- Parameters include: ECG, RESP, NIBP, SPO₂, Pulse Rate & Temp
- Optional: Single / Dual IBP, ETCO₂
- Fully digital monitoring, highly integrated technology
- 7-lead ECG waveforms displayed in one screen simultaneously
- ST segment analysis, 23 kinds of arrhythmia analysis
- Function of OXY - CRG analysis
- Maximum 72 hour data record, 120 items for alarm event records
- Audio and visual comprehensive alarm
- Built - in rechargeable battery
- Suitable for adult, pediatrics, neonates



MODEL M4 NOVA

Product Specifications

Monitor Dimensions & Weight

Dimensions: 202 mm x 262mm x 110 mm
 Weight: 3.4 Kg

Work Environment

Temperature Range:
 Work condition: 0 – 45°C
 Storage condition: -20 – 55°C
 Humidity Range:
 Work at 45°C: 85%
 Storage at 40°C: 93%
 Electrical Specification: 100-250V AC, 50 / 60 Hz, Max input power 90VA
 DC 12 – 20V, Max input current 4A
 Scope: Newborns, Infants, Adults

Monitor Functional Specification

Display: Color 8.4" TFT screen, resolution 640 x 480
 Language Options: English
 Indicators: 7-waveform display
 Alarm indicating light
 External DC supply indicating light
 QRS voice & voice alarming
 Interfaces: Measurement parameter cable interface
 Power supply socket
 Simulated signal output
 (1V & 5V amplitude optional, tolerance <20%),
 output impedance 50 Ω, signal delay <30ms
 Chargeable up to 1 hour backup
 Battery: 1 – 72 hours
 TREND Time: Optional
 Recorder: Optional

ECG Specification

Lead Input:
 5-lead Cable: RA; LA; RL; LL; C
 Lead Method: I; II; III; avR; avL; avF; V; CAL (calibration)
 No. of channels: 7 channels
 HR Gain: X0.5; X1; X2; X4; Automatic
 Adult Measurement & Alarming Range: 15 – 300 BPM
 Newborn/Infant Measurement & Alarming Range: 15 – 350 BPM
 Precision: 1%
 Resolution: ± 1 BPM
 Sensitivity: >200uV (peak-to-peak value)
 Differential Input Impedance: over 5 MΩ
 CMR: Non-filtering mode >60 dB
 Filtering mode >80 dB
 Electrode Polarized Voltage Range: ± 300 mV
 Leakage Current: less than 10uA

Protection

Electric Isolation: 4000V AC / 50 Hz voltage
 Defibrillation/Electric knife resistant,
 Grid/EMG resistant
 Baseline Recovery Time: After defibrillation <5 seconds
 (under Filtering mode)
 Scaling Signal: 1 mV (peak-to-peak value)
 Accuracy: ± 3%

Frequency Response (bandwidth)

Filtering Mode: 0.5 – 25 Hz
 Non-filtering Mode: 0.05 – 75 Hz
 Alarm: Voice-alarm dual alarms, with review function
 Pacing: Pacemaker works only after capturing pacing

RESP Specification

Method: RA-LL impedance method
 RR Measurement & Alarming Range:
 Adult: 7 – 100 BPM
 Infant/Newborn: 7 – 100 BPM
 Resolution: 1 BPM
 Precision: ± 2 BPM
 Differential Input Impedance: Over 2.5 MΩ, RA-LL lead
 Choke Alarm: 10 – 40 seconds

NIBP Specification

Measurement Method: Automatic vibration
 Work Mode: Manual / Automatic / Continuous
 Unit: mmHg
 Adult: Systolic Pressure: 25 – 255 mmHg
 Diastolic Pressure: 10 – 220 mmHg
 Average Pressure: 20 – 235 mmHg
 Overpressure Protection: dual protection
 (1) 300 mmHg
 (2) 300 ± 10% mmHg
 Infant: Systolic Pressure: 20 – 180 mmHg
 Diastolic Pressure: 10 – 150 mmHg
 Average Pressure: 10 – 160 mmHg
 Over Pressure Protection: 180 mmHg
 Newborn: Systolic Pressure: 20 – 120 mmHg
 Diastolic Pressure: 5 – 100 mmHg
 Average Pressure: 10 – 110 mmHg
 Over Pressure Protection: dual protection
 (1) 120 mmHg
 (2) 120 ± 10% mmHg
 Resolution: 1 mmHg
 Precision: Tolerance < ± 5 mmHg, less than 8 mmHg
 PR Range: 40 – 240 BPM
 Systolic / Diastolic / Average Pressure: 0 – 300 mmHg

SpO₂ Specification

Measurement & Alarm Range: 0 – 100%
 Resolution: 1%
 Precision: ± 2% (70 – 100%); ± 3% (60 – 70%)
 (not specified < 60%)
 PR and Alarm Range: 0 – 254 BPM
 Resolution: 1 BPM
 Precision: ± 1%

TEMP Specification

Measurement & Alarm Range: 0 – 45°C
 Resolution: 0.1°C
 Precision: ± 0.1°C (circuit precision)
 ± 0.2°C (including TEMP sensor)
 No. of Channels: 1 channel, displaying 1 TEMP value

Standard Configuration: ECG / Resp, NIBP, SpO₂, Pulse Rate, Temp

Optional Configuration: Single / Dual IBP, EtCO₂, Thermal Recorder

17517 Fabrica Way Suite H
 Cerritos, CA 90703 USA
 (Tel) 714-367-2848 (Fax) 714-367-2852
 www.mediainc.com info@mediainc.com