



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



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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

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