

Virgo

Patient Monitor



Committed to Excellence

Virgo

Patient Monitor

12.1" color TFT LCD screen, wide and flat screen design, economic and reliable

Configuration

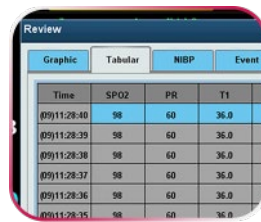
Optional

ECG+SpO2+NIBP+2TEMP+PR+RESP, Li-ion battery

Masimo SpO2, IBP, CO2, Thermal recorder, Touch screen, CMS



7-lead ECG



Graphical & Tabular Trend

- 240** Hours long trend
- 60** Mins short trend
- 1000** NIBP measurements
- 200** Alarm events



Northern Meditec



- 12.1" color TFT LCD screen
- 8 waveform display, up to 12-lead ECG analysis
- Powerful calculation (Hemodynamic, Dose, Oxygenation, Ventilation)
- Pacemaker detection
- ST & arrhythmia analysis
- OxyCRGs screen
- Night mode, standby mode, venipuncture mode
- Various mounting solutions
- Wired/Wireless CMS, support HL7 protocol to HIS
- SpO2 pulse-tone modulation (Pitch Tone)
- MEWS (Modified Early Warning Score)
- Graphical & tabular trend review (120 hours)
- Rechargeable Lithium-Ion Battery
- 48 Hours full disclosure waveforms display

Specifications

Display

12.1" TFT Touch screen
Resolution: 800 x 600
Number of traces: 8 waveforms

ECG

Lead type: 3-lead, 5-lead, 12-lead
ECG waveform: 2 channels, 7 channels, 12 channels
Display sensitivity:
2.5mm/mV (x0.25), 5mm/mV (x0.5),
10mm/mV (x1.0), 20mm/mV (x2.0)
Wave sweep speed:
6.25mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
Bandwidth
Diagnostic mode: 0.05Hz~100Hz
Monitor mode: 0.5Hz~40Hz
Surgery mode: 1Hz~20Hz
Strong filter mode: 5Hz~20Hz
CMRR > 106 dB
Notch: 50/60Hz notch filter can be set to on or off
Differential input impedance > 5MΩ
Electrode polarization voltage range: ±400mV HR range:
15 - 350 bpm
Baseline recovery time < 3s after defibrillation (in monitor and surgery mode)
Calibration signal: 1mV (peak - peak), accuracy ± 3%

RESP

Measurement method: Thoracic electrical bioimpedance
Measuring lead: Lead I, II
Wave gain: x0.25, x0.5, x1, x2
Measurement range: 3~150 rpm
Bandwidth: 0.3 to 2 Hz
Respiratory impedance range: 0.5-5Ω
Baseline impedance: 500-4000Ω
Gain: 10 grades
Scan speed: 6.25mm/s, 12.5 mm/s, 25mm/s and 50mm/s

Pulse Rate

Range: 30~254 bpm
Resolution: 1bpm
Accuracy: ±2bpm (non-motion)
±5bpm (motion)
Refreshing rate: 1s

TEMP

Accuracy: ±0.1°C or ±0.2°C °F
Measurement range: 5~50°C (41~122°F)
Channel: Two channels
Resolution: 0.1°C
Parameters: T1, T2 and TD

NIBP

Measurement method: Automatic oscillometric method
Operating mode: Manual, automatic, continuous
Measurement unit: mmHg/kPa selectable
Typical measurement time: 20~40s
Measurement type: Systolic, Diastolic, Mean
Measurement range (mmHg)
Range of Systolic pressure:
Adult 40-270
Pediatric 40-200
Neonatal 40-135
Range of Diastolic pressure:
Adult 10-210
Pediatric 10-150
Neonatal 10-100
Range of Mean pressure:
Adult 20-230
Pediatric 20-165
Neonatal 20-110

Measurement accuracy
Maximum average error: ±5mmHg
Maximum standard deviation: 8mmHg
Resolution: 1mmHg
Interval: 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240, 480 minutes
Overpressure protection: Software and hardware, double safety protection
Cuff pressure range: 0-280mmHg

SpO2

Measurement range: 0-100%
Resolution: 1%
Perfusion index display
Accuracy: ±2% (70-100%, Adult/Pediatric);
±3% (70-100%, Neonate);
0-69%, unspecified
Refreshing Rate: 1s

Masimo SET® SpO2 (Optional)

Measurement range: 0-100%
Resolution: 1%
Accuracy: ±2% (70-100%, Adult/Pediatric, non-motion, low perfusion);
±3% (70-100%, Neonate, non-motion);
±3% (70-100%, motion);
0-69%, unspecified
Refreshing Rate: 1s

IBP (optional)

Channel: 2-channel or 4-channel
ART: 0 to 300 mmHg
PA: -6 to 120 mmHg
CVP/RAP/LAP/ICP: -10 to 40 mmHg
Measurement range: P1/P2 -50 to 300 mmHg
Resolution: 1mmHg
Accuracy:
±2% or ±1mmHg, whichever is greater (without sensor)
Sensitivity: 5uV/mmHg/V
Impedance range: 300 to 3000Ω

Recorder (Optional)

Built-in, Thermal dot array
Horizontal resolution: 16 dots/mm (25 mm/s paper speed)
Vertical resolution: 8 dots/mm
Paper speed: 25 mm/s, 50 mm/s
Number of waveform channels: 3

Operation Environment

Power: AC 100-250V, 50/60Hz
Temperature: 5-40°C
Humidity: < 80%
Patient Range: Adult, Pediatric, Neonate

Northern Meditec Limited

Add: 4th Floor, Building C, Jin Wei Yuan Industrial Park, Julongshan Area, Kengzi St,

Pingshan District, Shenzhen, P.R.China

Tel: +86 755 23090266 **Fax:** +86 755 23010273

Email: info@northernmeditec.com

Website: http://www.northernmeditec.com

