

Your complete monitoring solution.

Measures ECG (3/5 lead), Respiration, SpO₂ (Nellcor Oximax®), Non-Invasive Blood Pressure (Suntech®), Dual Temperature and Dual Invasive Blood Pressures.

Also available with EtCO₂ (Oridion®) and Anesthetic Agent monitoring with Automatic Agent ID

- Simultaneous multi-lead ECG monitoring
- 72 hour / 100 patients trend
- Adult, pediatric and neonate modes
- Paperless USB data management
- User selectable screen formats and colors
- Variance in SpO₂ pulse tones
- Remote control
- Built-in recorder
- Li-Ion battery
- Available with four IPB channels



Technical Specifications

Display

Type High resolution color TFT display
 Size 12.1" (diagonally)
 Resolution 800 x 600 pixels, excellent viewing from any angle
 Parameters ECG, Respiration, SpO₂,
 Dual NIBP, Temperature & CO₂
 Trace Speed 12.5, 25 & 50 mm/sec. for ECG & SpO₂
 6.5, 12 & 25 mm/sec. for Respiration & CO₂

Optical Encoder / Keys

Optical Encoder Rapid access to all the functions and setting of
 parameters through single knob
 Hot Keys Quick action hot keys for alarm acknowledge,
 NIBP start/stop, recorder start/stop, freeze, stand by,
 go-to and return to the main screen

ECG Monitoring

Lead 3/5 lead with optional ST & Arrhythmia
 Protection In-built cautery & defibrillator protection
 Pacer Detection Possible
 HR Range 20 to 350 bpm (±2 bpm or 2%, whichever is greater)

Respiration (from ECG)

Principle Impedance pneumography
 PR Range 4 to 150 bpm

Pulse Oximetry (Nellcor Module)

Tone Variation Tone variation with change in SpO₂ values
 SpO₂ Range 1 - 100%
 Accuracy Adult: 100 - 70% (±2 digits)
 0 - 69% (unspecified)
 Neonates: 100 - 70% (±3 digits)
 Perfusion Indicator Bar graph showing signal strength
 Modes Normal response & fast response
 Alarms Low: 0 - 95%
 High: 5 - 100%
 PR Range 20 to 230 bpm

Non-Invasive Blood Pressure (Suntech Module)

Principle Oscillometric
 Display Systolic, Diastolic & Mean pressure
 Modes Manual, STAT (continuous 5 min. operation)
 and automatic (time interval 2-90 min. selectable)
 Alarm Limits Selection possible of r Systolic & Diastolic
 Range 20 - 250 mmHg
 Accuracy ±3 mmHg

Invasive Blood Pressure

Measurement Range -50 ~ 300mmHg
 Channel 2 channels
 Pressure Transducer sensitivity, 5µV/V/mmHg
 Impedance Range 300 ~ 3000Ω
 Transducer Sites ART, PA,CVP, RAP, LAP, ICP
 Unit mmHg/kPa selectable
 Resolution 1mmHg
 Accuracy ±1mmHg or ±2%, whichever is greater
 AlarmRange -10 ~ 300mmHg

Temperature

Channel Dual channel
 Range 0°C to 50°C (±0.2°C or -0.4°F)
 Unit °C or °F
 Probe compatible with YSI 400 series probes (optional)

Capnography (Oridion Module)

Microstream Capnography with display of CO₂ waveform and digital values of EtCO₂, FiCO₂ & RR. CO₂ gets priority for calculating Respiration rate.
 EtCO₂ Range 0 - 99 mmHg
 FiCO₂ Range 0 - 20 mmHg
 Gain 20, 40, 60, 80 mmHg
 Flow Rate 50 ml/min. (-7.5 / +15 ml/min.)
 Warm-up time 40 sec. (typically),
 Units: mmHg / Kpa / Vol%
 RR Range 0 - 150 bpm

Alarms

Alarm setting for all parameters.
 Patient Alarm RED flashing with audio
 and message indicator
 Equipment Alarm YELLOW flashing with audio
 and message indicator
 Alarm Suspend Continuous YELLOW
 Auto Setting HR / PR, SpO₂, RR, Temperature & CO₂
 Manual Setting HR / PR, SpO₂, Systolic, Diastolic,
 RR, Temperature & CO₂
 Re-Alarm Facility 3 min. for acknowledge alarm

Trends

72 hrs / 100 patients graphical and tabular trend for HR / PR, SpO₂, RR, Temperature & CO₂ & ST.
 NIBP Trend Last 240 readings (tabular)
 Alarm Recall Last 12 critical alarms with date & time

Recorder (optional)

Type In-built dual channel thermal array recorder
 for recording ECG, plethysmograph,
 Respiration & CO₂ waveforms (any
 two-user selectable) with numerical data,
 NIBP & Tabular trend recording
 Modes Direct / delayed / continuous and record on alarm features

Slave Display

Dimension Possible with external monitor
 HxWxD 235 x 260 x 158 mm
 Weight 4.5 kg.
 (with in-built battery & thermal array recorder)

Power Supply

Universal Poser 95 - 264V AC, 50 160 Hz (±5%)
 Current Rating 0.7 A (max)
 Battery Type 14.8V, (4Ah / 8Ah) Lithium ion (in-built)
 Battery Operation Rechargeable battery for
 2 - 4 hrs of continuous operation
 under full charge condition (typically)
 Charging Time 8 hrs (typically)