

MODULAR MULTIPARAMETER
PATIENT MONITOR

CE



Modularity – Light-weight plug & play modules with combination of swappable modules.

Salient Features

- ▶ 10 channel modular monitor with 15" high resolution LED touch display
- Adult, Pediatric & Neonatal applications
- ▶ High performance in Low perfusion, Hypothermia, Hypovolemic shock, Vasoconstriction, etc.
- ► Advanced features like SatSeconds[™], LoSat[™], IPI[™], etc.
- *ST segment analysis & *Arrhythmia analysis, OxyCRG & drug dose calculation
- Advanced alarm management system
- ▶ Connectivity: USB, HDMI, IABP interface, Central Nursing Station Interface (wired/wireless)
- ▶ HL7 support for HIS interfac
- Bed to bed connectivity

Standard Parameters

ECG, SpO₂, Respiration, NIBP, Dual Temperature & Dual IBP

Optional Parameters

Capnography (Microstream), *Cardiac Output, Additional Dual IBP, Anaesthesia Gas Monitoring, *NICCO & Thermal Printer

Features & Benefits



Nellcor™ SpO₂

- Adult to Neonatal application.
- LoSat[™] feature ensures accuracy in low saturation conditions.

etCO₂ Microstream™

- Microstream[™] technology, with Smart Capnography[™]
 algorithms and a wide array of sampling line options,
 is designed for accuracy, ease-of-use and workflow
 efficiency.
- Provides an early indication of evolving respiratory compromise.
- Offers the clinicians the opportunity to determine the most suitable interventional methods, reducing risk and saving time.





IPI™

- Integrated Pulmonary Index (IPI™), a Smart Capnography™ algorithm from Oridion that incorporates four real-time respiratory measurements into a single number. Valuable in busy clinical environments, IPI™ provides early awareness of changes in patient's breathing.
- 4 vital parameters: etCO₂, FR, SpO₂ and PR are represented in the form of a single index.
- IPI[™] ranges from 1-10, where 10 is healthy and 1 requires immediate intervention.
- It provides easy and quick assessment of patient's ventilatory status.

IPI	Patient Status
10	Normal
8-9	Within Normal Range
7	Close to Normal Range (Requires Attention)
5-6	Requires Attention (May Require Intervention)
3-4	Requires Intervention
1-2	Requires Immediate Intervention



Cardiac Applications

Cardiac Output*

- Thermodilution Method.
- Measurement of Wedge Pressure (PCWP).
- Inline Injectate temperature probe.

Advanced Haemodynamic Calculations

- Systemic Vascular Resistance (SVR), SVRI
- Pulmonary Vascular Resistance (PVR), PVRI
- Left Cardiac Work (LCW), LCWI
- Right Cardiac Work (RCW), RCWI
- Left Ventricular Stroke Work (LVSW), LVSWI
- Right Ventricular Stroke Work (RVSW), RVSWI and so on.

Non-Invasive Continuous Cardiac Output (NICCO)*

- Impedance plethysmography method.
- Easy to use and quick monitoring of cardiac output.
- Cost effective method of assessing the patient's haemodynamic status.

OT Applications

Advanced Anaesthesia Gas Monitoring

- Monitoring Et & Fi values of CO₂, O₂, N₂O & 5 Anaesthetic agents.
- Auto detection of Primary & Secondary Anaesthetic agent.
- Measurement of MAC.

Powerful Data Manager

- 240 hrs (10 days) of trend Graphical & Tabular data on the same screen
- Alarm, ECG, *Arrhythmia, Apnea & Event recall* - The event recall reflects in the trend screen
- Waveform disclosure 24 hours of complete disclosure of 4 user selected waveforms
- Patient Discharge Report Eco-friendly PDF format





HDMI Output

- Enables large slave display.
- · Distortion free monitoring.
- Application in Cardiac & Neuro OT.

Data Transfer

- USB data upload & download.
- Transfer patient data with ease.
- Easy software upgrade.





Go Wif

- Easy wireless & wired communication with host of devices.
- Central Nursing Station
- Wi-Fi Printer & USB Printer
- Wireless viewing of other monitor information.

Night Mode

- Autoreduction of brightness & volume.
- Enhanced patient comfort.
- Power saver.



Stay Connected Bed to Bed View

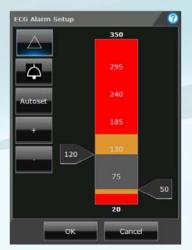
 Bed to bed communication empowers the busy doctor to keep a bird's eye watch on his patients from a distant bed



Click Scan Admit

- Barcode Scanner Connectivity.
- Quick & Easy Patient Admit





Advanced Alarm Management

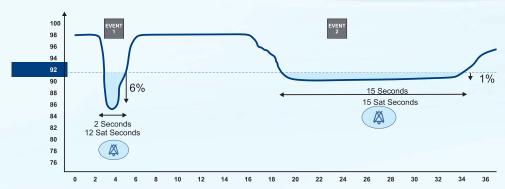
- Smart prioritization of patient alarms.
- Three level Audio Visual Alarm (Red, Yellow, Blue).
- Easy AUTOSET of alarm limits.
- · Clock with Reminder alarm.

Alarm Management with Sat Seconds™

- Available with the advanced built-in Nellcor[™] module.
- Reduction of nuisance alarms.
- Clinician controlled feature.



- Reduction of nuisance alarms
- Clinician controlled feature



Technical Specifications

DISPLAY

Size : 15" TFT/LED display (1024X768)

Trace Speed : 6.25/12.5/25/50 mm/sec

Waveform : 10 channel, fixed and user-configurable display

formats

Patient Modes : Adult, Paediatric & Neonate

ECG 3/5L

Heart rate range : 20-350 BPM

Accuracy : 2 BPM or 2%, whichever is greater

RESPIRATION

Method : Impedance Pneumography

Range : 0 -150 breaths/min.

TEMPERATURE (DUAL CHANNEL)

Measurement Range : 0°C-50°C

Unit : °C or °F (user selectable)

Accuracy : ± 0.2 °C or ± 0.4 °F

SpO₂ (NELLCOR™)

SpO₂ Measurement : 1-100%

Range

 SpO_2 Accuracy : \pm 2 digits Pulse Rate Range : 20 to 250 BPM

PR Accuracy : ± 3 BPM

NIBP

Method : Oscillometric

Display : Systolic, Diastolic and Mean Modes : Manual, Auto and Stat

Auto mode intervals of 2, 3, 4, 5, 10, 15, 30, 60,

90, 120, 240 & 360 min

Unit : mmHg or kPa
Range : 20-260 mmHg

Accuracy : ± 5 mmHg Std Deviation

Invasive Blood Pressure (4 channel)

Measurement Range : -30 to 300 mmHg

IBP Accuracy : 2 mmHg or 2% whichever is greater

PR Range : 30-250 BPM Accuracy : 3 BPM

CAPNOGRAPHY (MICROSTREAM™)

Measurement Range

 $\begin{array}{lll} {\rm EtCO}_2 & : 0\mbox{-99 mmHg} \\ {\rm FiCO}_2 & : 0\mbox{-20 mmHg} \\ {\rm RR} & : 0\mbox{-150 BPM} \\ {\rm Units} & : {\rm mmHg \ or \ kPa} \end{array}$

Scale : 20, 40, 60, 80 & 100 mmHg

*IPI™range :1-10

ANESTHESIA GAS MONITORING

Measurement Range

 ${\rm EtCO}_2$: 0-80 mmHg or 0-10 kPa ${\rm FiCO}_2$: 0-20 mmHg or 0-2.6 kPa

 $egin{array}{lll} {\rm N_2O} & : 0\mbox{-}100\% \\ {\rm O_2} & : 0\mbox{-}100\% \\ {\rm RR} & : 2\mbox{-}100\mbox{ BPM} \\ \end{array}$

Agents : Auto-detection of Isoflurane, Sevoflurane, Des-

flurane, Halothene, Enflurane

TRENDS

Data Storage : 240 hrs at 30s resolution in Graphical & Tabular

format

NIBP : Last 240 readings in Graphical & Tabular format
Alarm Recall : Tabular trend display of last 24 patient alarms

ECG & *Arrhythmia : 30 strips of 30s each

Recall

ST* Recall : 4 hrs at 1 min resolution.

THERMAL PRINTER

Recorder Type : Two channel

Paper Width : 2.2"
Printing Width : 1.8"
Speed : 25 mm/sec

Printing Modes : Direct 8 sec, Delayed -6 to 2 sec, Continuous 30

sec, On alarm -6 to +2 sec

GENERAL

Dimensions (H*W*D) : 13.9" * 13.5" * 2.9" Weight : 8.8 lbs approx

Mounting Option : GCX option and Rail option

USB : Optional WiFi communication with CNS;

Software upload/upgrade, Trend download,

Monitor setting download/upload

Central monitoring : Wired/Wireless communication with SKANRAY

connectivity Skyline 55
Slave Display : HDMI output

UNIVERSAL POWER SUPPLY

Voltage : 100-240V AC at ± 10 %

50Hz/60Hz at 5% tolerance

Battery Type : Lithium ion
Charging Time (min) : 10 hrs
Backup Time : 3 hrs (typical)







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CARDIOLOGY











