STAR 65

SKANRAY
NOTHING IS OPAQUE

MODULAR MULTIPARAMETER
PATIENT MONITOR

CE

STAR 65

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

Salient Features

▸ 8 channel modular monitor with 12.1" 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)
▸ Microstream/Mainstream* EtCO$_2$
▸ HL7 support for HIS interface
▸ Bed to bed connectivity

Standard Parameters
ECG, SpO$_2$, Respiration, NIBP, Dual Temperature & Dual IBP

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

*Not available for the United States of America.

Features & Benefits

Nellcor™ SpO$_2$
- Adult to Neonatal application
- LoSat™ feature ensures accuracy in low saturation conditions

etCO$_2$ 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
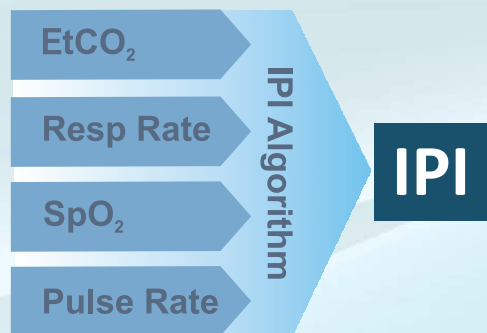
IPI™
- Integrated Pulmonary Index (IPI™), a Smart Capnography™ algorithm from Oridion that incorporates four real-time respiratory measurements into a single number. Valuable in busy clinical environments, IPI™ provides early awareness of changes in patient's breathing
- 4 vital parameters: etCO$_2$, RR, SpO$_2$ 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

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OT Applications

Advanced Anaesthesia Gas Monitoring
- Monitoring Et & Fi values of CO_2, O_2, N_2O & 5 Anaesthetic agents
- Auto detection of Primary & Secondary Anaesthetic agent
- Measurement of MAC

Powerful Data Manager
- 240 hrs Vital Trend
- Events Storage
- 180 min Online trend for all parameters for quick reference
- 24 Hours Waveform Storage (disclosure) & PC based viewer
- ECG & Arrhythmia* Recall storage upto 30 strips
- Alarm Recall – 48 entries
- ST Recall*
- NIBP Trend for last 240 readings

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
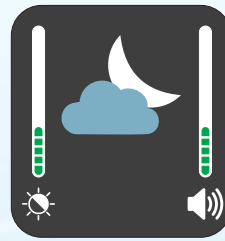- Easy software upgrade

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

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Night Mode

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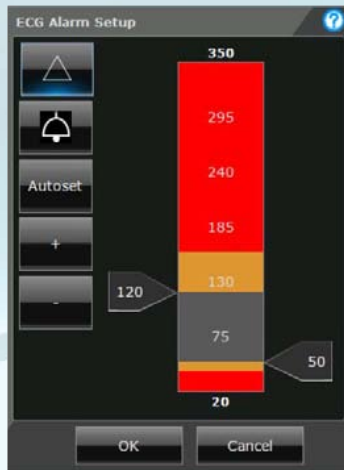- Enhanced patient comfort.
- Power saver.

Stay Connected Bird's 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.
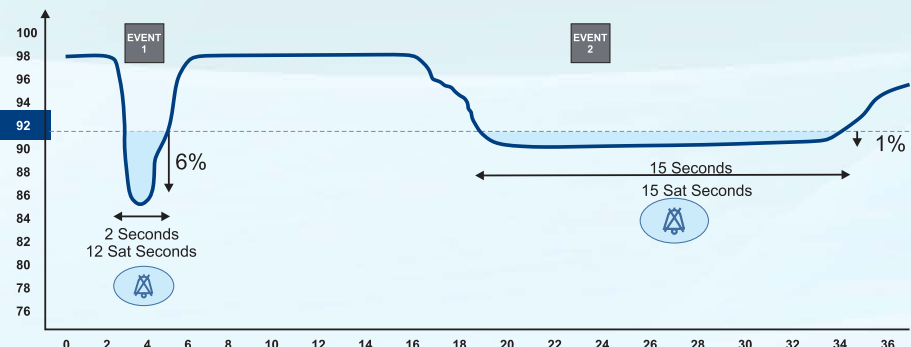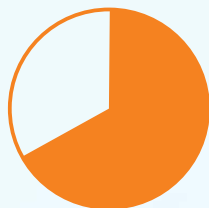- Quick & Easy Patient Admit

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.

Technical Specifications

DISPLAY

Size	: 12.1" TFT/LED display (1024X768)
Trace Speed	: 6.25/12.5/25/50 mm/sec
Waveform	: 8 channel, fixed and user-configurable display formats
Patient Modes	: Adult, Pediatric & 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

SpO$_2$ (NELLCOR™)

SpO$_2$ Measurement Range	: 1-100%
SpO$_2$ Accuracy	: ± 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	
EtCO$_2$	: 0-99 mmHg
FiCO$_2$	: 0-20 mmHg
RR	: 0-150 BPM
Units	: mmHg or kPa
Scale	: 20, 40, 60, 80 & 100 mmHg
*IPI™ range	: 1-10

ANESTHESIA GAS MONITORING

Measurement Range	
EtCO$_2$	: 0-80 mmHg or 0-10 kPa
FiCO$_2$	: 0-20 mmHg or 0-2.6 kPa
N$_2$O	: 0-100%
O$_2$	: 0-100%
RR	: 2-100 BPM
Agents	: Auto-detection of Isoflurane, Sevoflurane, Desflurane, 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 Recall	: 30 strips of 30s each
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)	: 11.4" * 12.5" * 6.3"
Weight	: 9.4 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 connectivity	: Wired/Wireless communication with SKANRAY 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	: 2 hrs (typical)
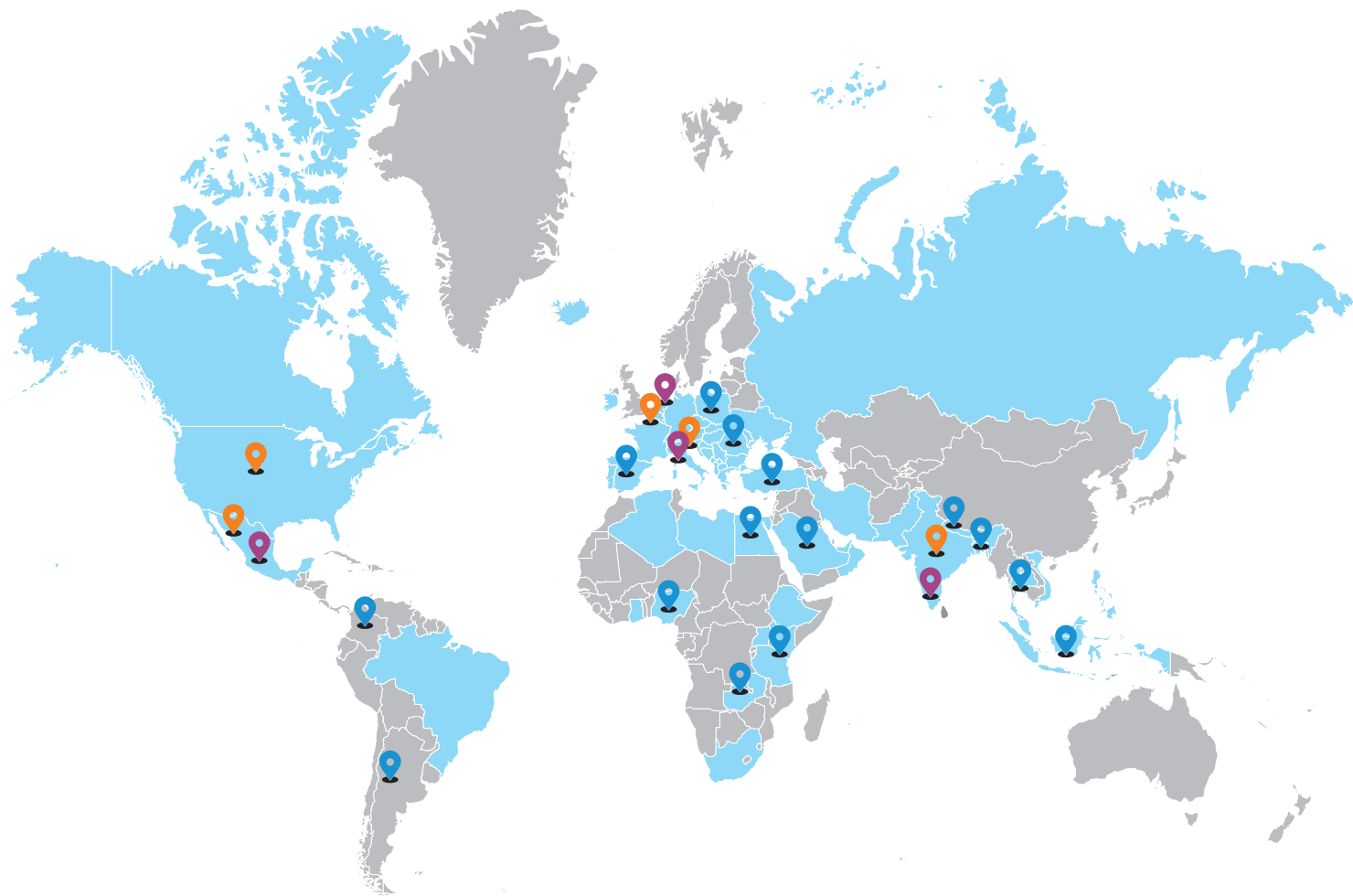
Skanray's Reach • Manufacturing Plants • Sales/Service/Application Centres • Distributors

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RADIOLOGY   MONITORING   CARDIOLOGY   ANAESTHESIA   VENTILATION   DENTAL   SURGERY   TELE SOLUTIONS   VETERINARY

Skanray continuously upgrades its technology, performance and safety features. Pictures and specifications featured in this catalogue are only indicative.
Please refer to the commercial offer document for exact specifications and performance.

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