

Spectrum®



What over 40 years in monitoring has taught us



PATIENT MONITORING



[DATASCOPE MONITORING: AN EVOLUTION]



1964
Carditron
First cardiac monitor with synchronized ECG



1966
Model B
First monitor to alarm after a preset number of abnormal beats in a given period



1971
Model 850
First portable, dual-trace battery-powered monitor



1974
ESIS® (870)
First monitor to suppress electromagnetic interference caused by electrocautery machines



1986
Accusat
First oximeter with effective electro-surgical interference noise suppression

The Spectrum®.

What we've learned from over 40 years of patient monitoring.

A monitor should not be complicated.

The Spectrum was developed by clinicians for clinicians with emphasis on simplicity without overlooking the details. Features such as one-touch functions, auto-configuring waveforms and user-friendly menus make the Spectrum simple to use and easy to learn. Advanced parameters such as cardiac output and comprehensive calculations make the Spectrum suitable for the most critical patients.

A monitor should be flexible enough to fit any environment.

The Spectrum offers a broad selection of optional features to suit any department's needs. From a variety of mounting schemes to portability to exchangeable modules, the Spectrum is versatile in any environment.

A monitor should be easy to see and understand.

The Spectrum has a bright 12.1" color display, with auto-adjustable large numerics, making patient information easy to see from distances. Up to 8 waveforms with associated data can be displayed – all color-coded and aligned to optimize viewing.

A monitor should offer a complete solution to all departments.

The Spectrum can be used in any hospital department – from the Emergency Department to Operating Room, from ICU to Step-Down. Seamless interface with the Panorama Central Station or other devices via a Comm-Port makes the Spectrum an integral part of the patient's continuum of care.



1991
Visa
Central station
combining
ambulatory and
instrument telemetry



1991
Passport®
Large screen
portable monitor
for neonates
and adults



1996
Accutorr Plus®
Portable NIBP
monitor with
integrated patient
database



1999
Passport 2®
Portable bedside
monitor with
an intelligent
interface



2004
Panorama™
Patient Monitoring Network
combining the best of what we
have learned from 40 years of
improving patient care.



Comm-Port Modules provide a simplified network solution. Some connections include: Nurse Call, Central Station, Gas Module, Remote Display, and Ethernet.



Convenient Wall Mount

eliminates the need for a separate transport monitor. Just release the single-action lever and Spectrum is ready to travel.



The monitor you buy today should be prepared for tomorrow.

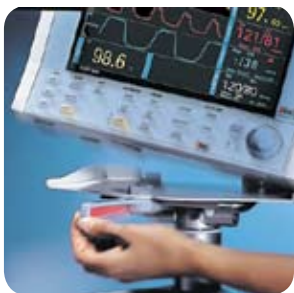
The Spectrum is the monitoring solution that can grow with you. The broad selection of options can be combined with the extensive list of standard features for a customized solution for your department.

[BASIC SYSTEM]

- 12.1" high-contrast Color TFT display
- 3 to 8 waveforms with automatic configuration
- Auto-adjustable large numerics
- 3 or 5 lead ECG with ESU noise rejection
- Lead-Selectable Respiration
- Non-Invasive Blood Pressure
- Masimo SET® motion-tolerant SpO₂
- Temperature (400 or 700 series YSI probes)
- Graph and List Trending – up to 120 measurements
- 6-minute OXY-CRG Trend for neonatal and pediatric applications
- Dual PCMCIA ports
- Built-in power supply for direct AC connection
- Drug Calculations

[AVAILABLE OPTIONS]

- Arrhythmia Analysis
- 3 lead ST Segment Analysis with Trends and Alarms
- 12 Lead ST and Arrhythmia Interpretation
- Nellcor® OxiMax® SpO₂
- Advanced low flow rate Microstream® ETCO₂
- Up to 4 Invasive Pressures
- Cardiac Output with Hemodynamic Calculations
- Continuous Cardiac Output/SvO₂* with interface to Edwards Vigilance® Monitor
- Pulmonary Artery Wedge Pressure (PAWP) with Reference Cursor
- List and Graph Trending Memory Expansion permits up to 500 entries
- OXY-CRG Memory Expansion to 12 hours
- Lithium-ion Battery
- Nurse Call Interface
- Dual-Trace Recorder
- Comm-Port Networking Module
- Communications Hub
- Gas Module SE with complete 5-agent ID, O₂, CO₂, and N₂O analysis
- Panorama™ Central Station
- Wireless Telemetry



Spectrum Rolling Stand, available with our Quick Release locking lever, is exceptionally sturdy and stable.

*The Vigilance Monitor must be configured to measure SvO₂.

You need a monitor that can adapt to your patient's sudden changes in acuity.

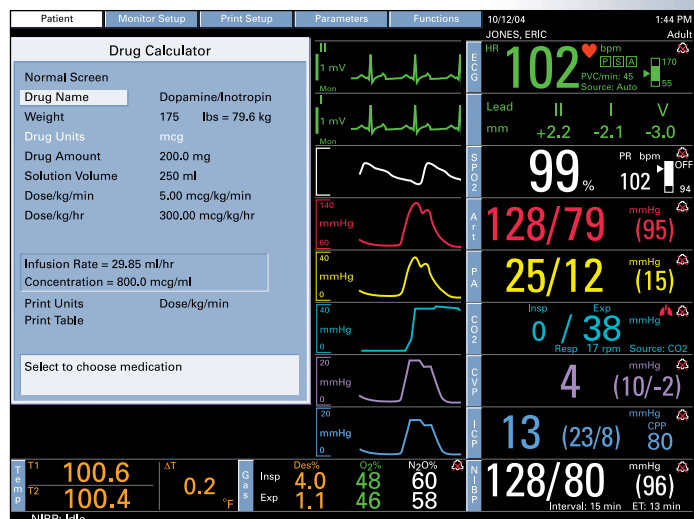
Spectrum's External Module contains the extra parameters that may not be used frequently, such as cardiac output and extra invasive blood pressures. This module offers the flexibility to move parameters as a patient's acuity changes.

The Spectrum® is configured with all necessary patient parameters in a portable package. No need to transfer patient data before transport, or worry about loss of patient data while disconnecting the patient from the monitor.

Software features such as ST analysis, arrhythmia analysis and 12 Lead monitoring can be turned off while not in use. You may quickly access these features as a patient's condition changes.

Calculate vital patient data and IV medications with the comprehensive calculations package. The Drug Calculator includes a broad range of medications. The Hemodynamics Calculator automatically enters any patient data available for quick calculations. Print titration tables or calculation trends to the internal recorder for a permanent record.

Titrate and evaluate patient medications with our comprehensive drug calculations.



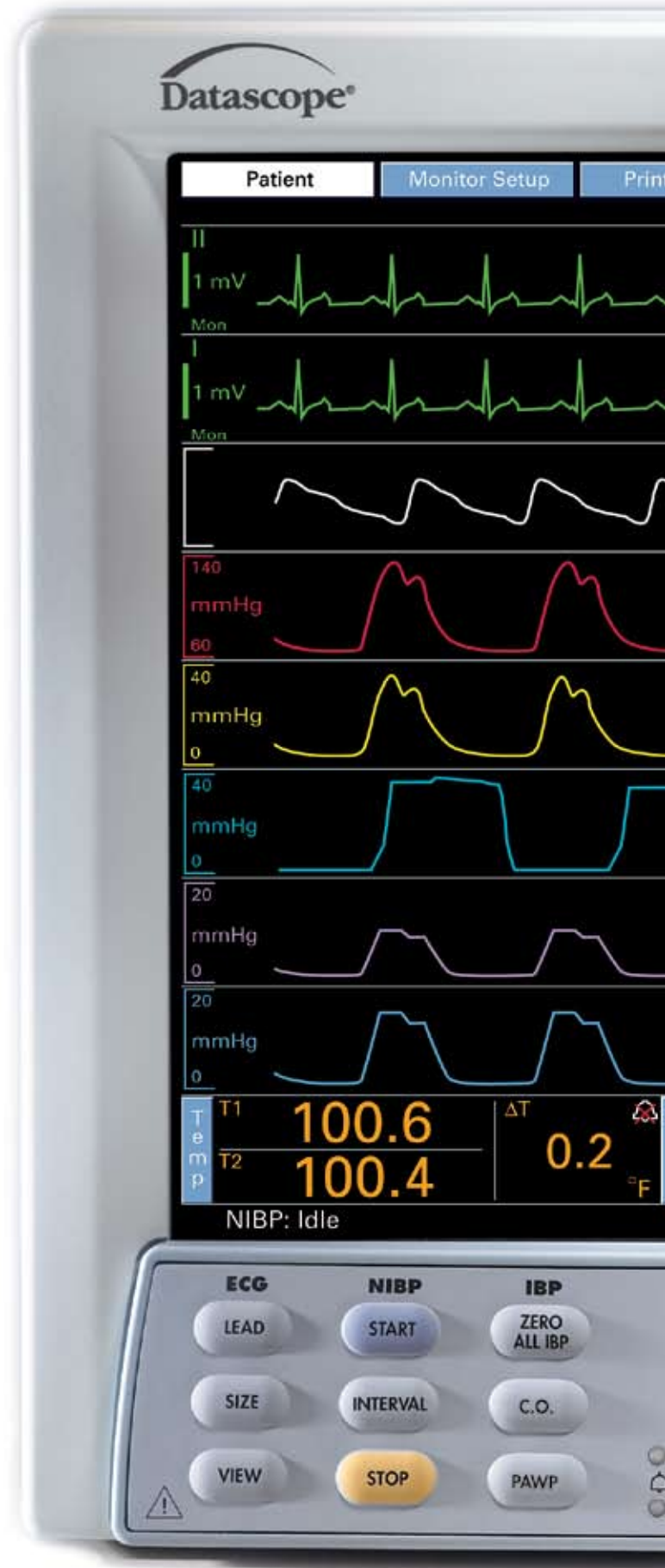


Bring the high-end features where you need them, with our external module, without sacrificing portability.

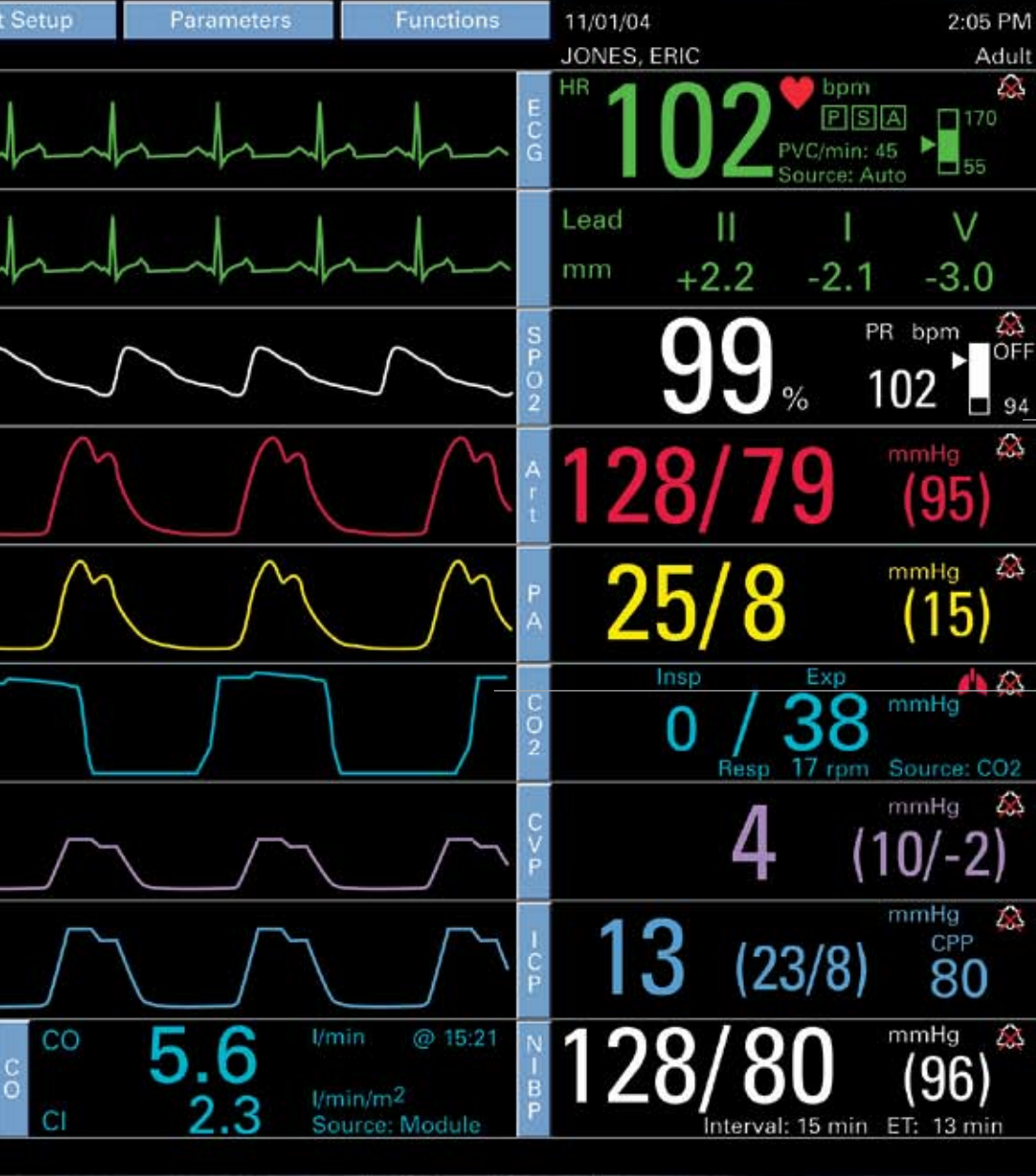
You need a monitor that's as easy to see as it is to work with.

The Spectrum® offers one of the largest displays available in a portable bedside monitor. The high-resolution, 12.1" color display makes data crisp, and easy to read. Up to 8 waveforms can be clearly displayed in any of 16 color choices. Customizing the monitor for the patient's needs or clinical preference is uncomplicated and effortless.

- 1 ALARM LIMITS** can be quickly viewed; the Auto Set feature quickly tailors alarms for your patient.
- 2 WAVEFORMS AND PARAMETER DATA** can be optimally sized with our Rescale Waves™ function for better viewing of patient information.
- 3 AUTOMATICALLY CONFIGURING WAVEFORMS** – just plug in the appropriate patient cable, and the display adapts to your patient's parameters.
- 4 FREQUENTLY USED FUNCTIONS** such as starting a blood pressure reading or changing the ECG lead are accessible through our one-touch keys.
- 5 RETRIEVING PATIENT DATA**, accessing menus or changing patient data is simple with our exclusive Navigator Knob™.



Spectrum™



- 1
- 2
- 3
- 4
- 5

ALARMS **PRINT** **DISPLAY**

LIMITS STRIP STANDBY TRENDS

MUTE ALL CONT ECG DISCHARGE FREEZE

MUTE PRINT TREND MARK EVENT

NORMAL SCREEN

Masimo SET INSIDE



Masimo SET SpO₂ is perfect for challenging areas such as the NICU, Intensive Care, or Emergency Department.



View 12™ ECG analysis module plugs quickly and easily into the card slot on the Spectrum.



You need all the latest innovative technology.

“Innovation is the Best Medicine” is not just a motto, it is a mission. Our aim is to package progressive technologies such as Masimo SET® pulse oximetry, Microstream® CO₂, or diagnostic 12 Lead together in a complete system.

Masimo SET SpO₂ was the first pulse oximetry technology clinically proven accurate during motion and lower perfusion. Clinical studies have shown that Masimo SET exhibited unsurpassed performance pulse oximetry with 99% sensitivity (ability to detect true events) and 97% specificity (ability to reject false alarms)¹.

Microstream CO₂ is a remarkable breakthrough in monitoring a patient's CO₂ levels. The low-flow rate, minimal dead space and special low-humidity tubing reduces the obstacles usually associated with conventional Mainstream or Sidestream capnography.

View 12 ECG is a small, compact analysis module that contains everything you need to monitor your patient's cardiac health: 12 Leads of ST, Arrhythmia and diagnostic interpretations.

Many other innovative features include quick patient data and monitor setup transfer with PCMCIA cards, anesthetic gas detection with the Gas Module SE, as well as the easy-to-remove External Module.



A simple-to-use FilterLine is all that is required for fast CO₂ results.

¹ Barker S. "The Effect of Motion on the Accuracy of Six 'Motion Resistant' Pulse Oximeters." *Anesthesiology*, 2001; 95:A587.



Duo™



Accutorr Plus®



Trio™



Passport 2®



Spectrum®



Panorama™



Anestar™

You need a company that provides complete monitoring solutions.

Datascope® offers a wide selection of products for any department in the hospital. Each product is made with the same philosophy in mind – a product must be high quality and easy to use.

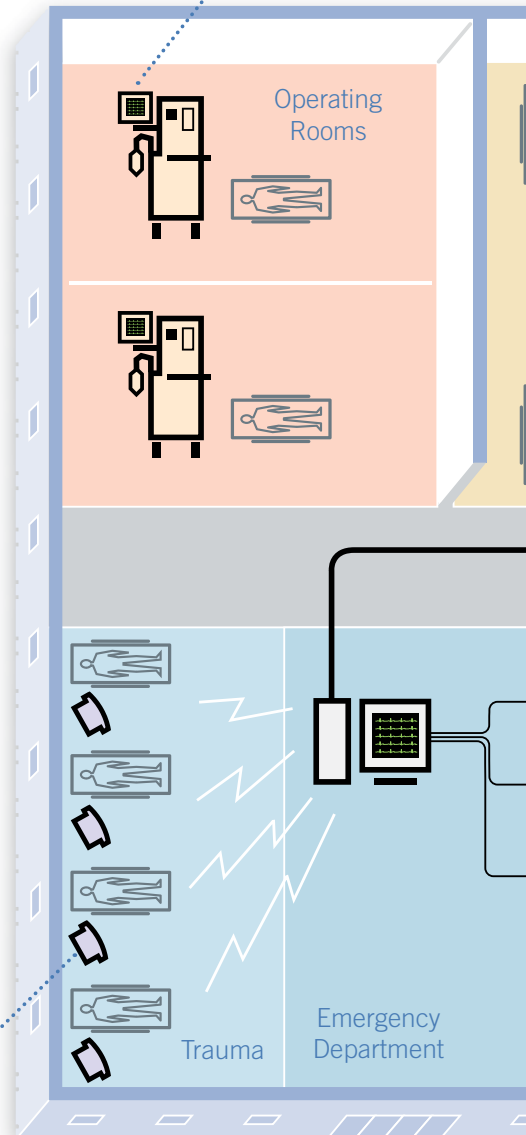
Patient information transfers easily using the Panorama Central Station network, or by using transfer cards for continuous data capture between departments.

From the Triage area through the patient discharge process – Datascope supports your monitoring needs throughout the patient's stay.

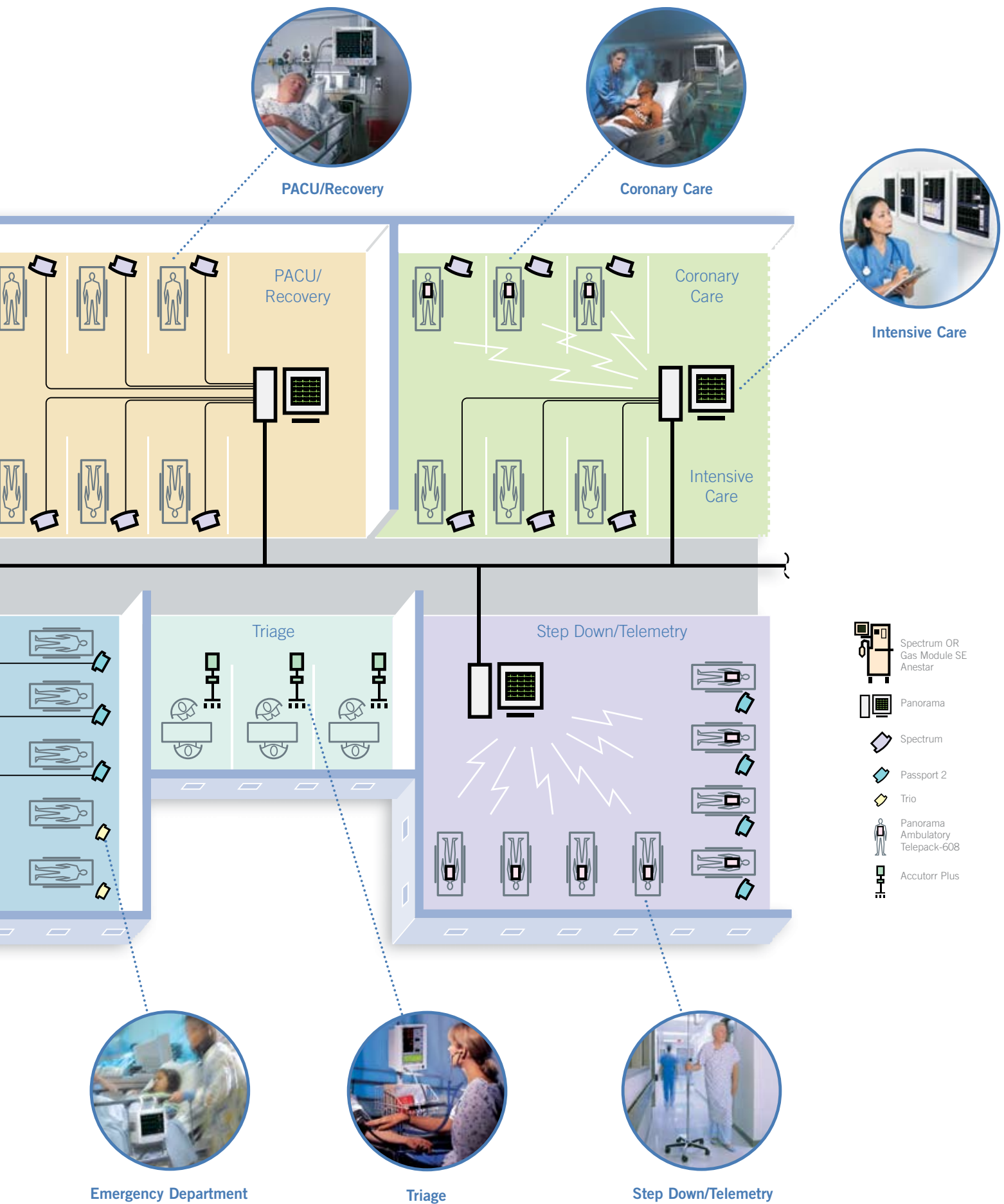
The Spectrum OR offers specific features for the operating room including; BIS level of consciousness monitoring, MAC and Spirometry when chosen with the Gas Module SE.



Operating Room



Trauma



Your monitor is only as good as the company that supports it.

In almost 40 years of monitoring, we've learned that efficient service and customer support are imperative. Our service organization is one of the largest service teams in the industry. With our broad array of highly personalized service contracts, repair parts, loaner equipment and rental programs we can protect and add value to your equipment investment.



Minimize service costs and maximize monitor up-time with our biomedical training programs. Classes are conducted quarterly at Datascope's National Training Center in Mahwah, NJ, less than 20 miles from New York City.



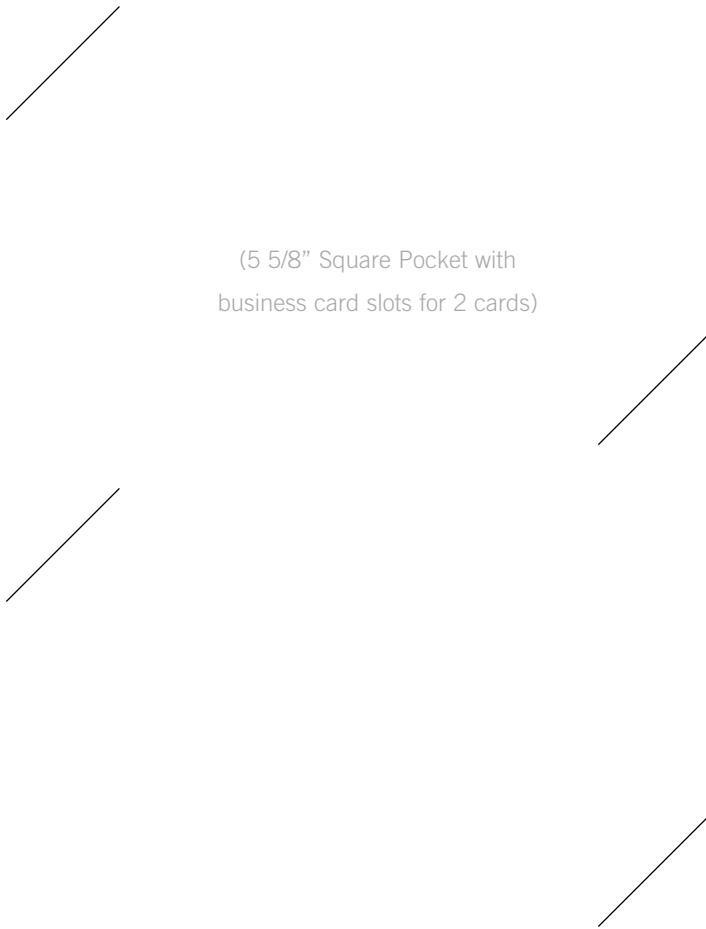
Nation-wide Clinical Education Specialists, each an RN with extensive experience – support your staff with intensive, on-site training and technical assistance on-demand, 24/7.

Dedicated National Account Representatives develop custom sales and service programs that leverage your purchasing power to maximize your resources.

Visit datascope.com for more product information and to view our wide variety of parts and accessories.

Contact your local Datascope office for more information about Datascope products and service support options.





(5 5/8" Square Pocket with
business card slots for 2 cards)

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innovation is the best medicine

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