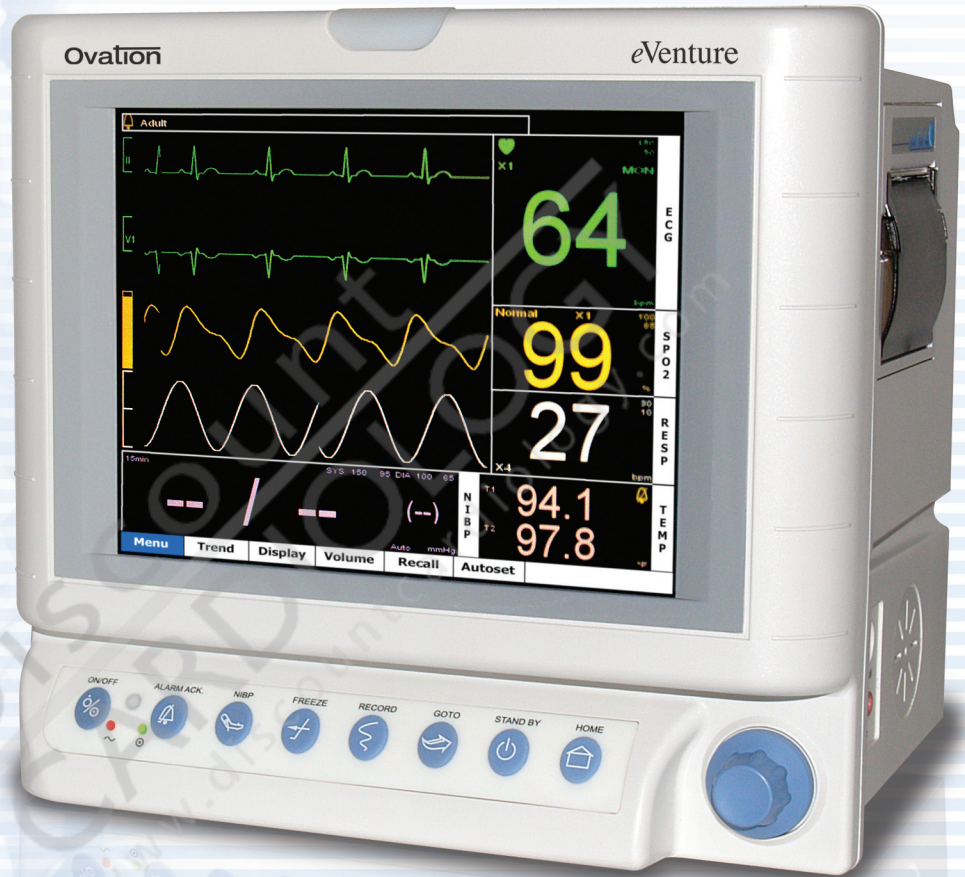


# Ovation

## Multi-Parameter Patient Monitor



**The Ovation Multi-Parameter Patient Monitor measures:**  
**ECG (3/5Lead), Respiration, SpO2 (Nellcor OxiMax®),**  
**Non-invasive Blood Pressure (Suntech®) and optional EtCO2 (Oridion®)**

The Ovation patient monitor is a true hospital grade product with no aspect of quality sacrificed. A flexible, upgradeable, and comprehensive software package leaves nothing to spare in today's demanding healthcare environment. The Ovation is manufactured with the industry's most clinically proven technology from manufacturers such as Nellcor®, Suntech® and Oridion®.

The Ovation also features:

- Simultaneous multi-lead ECG monitoring
- Adult, Pediatric, and Neonate Modes
- User Selectable screen formats and colors
- 4 hour battery operation
- Optional ST and Arrhythmia Analysis
- 72 hour / 100 patients advanced trending
- Paperless USB data management
- Built-in Dual Channel Recorder

## eVenture

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# Ovation Multi-Parameter Patient Monitor

## DISPLAY

Type:	High resolution colour TFT display
Size:	8.4" (diagonally)
Resolution:	800 x 600 pixels, excellent viewing for distance and angle
Parameters:	ECG, Respiration, SpO <sub>2</sub> , Dual NIBP, Temperature & CO <sub>2</sub>
Trace Speed:	12.5, 25 & 50 mm/sec. for ECG & SpO <sub>2</sub> 6.5, 12 & 25 mm/sec. for Respiration & CO <sub>2</sub>

## 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 ( $\pm 2$ bpm or 2%, whichever is greater)

## RESPIRATION (from ECG)

Principle:	Impedance pneumography
PR Range:	4 to 150 bpm

## PULSE OXIMETRY (Nelicor Module)

Tone Variation:	Tone variation with change in SpO <sub>2</sub> values
SpO <sub>2</sub> Range:	1 - 100%
Accuracy:	Adult: 100 - 70% ( $\pm 2$ digits) 0 - 69% (unspecified)
Neonates:	100 - 70% ( $\pm 3$ 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

## TEMPERATURE

Channel:	Dual channel
Range:	0°C to 50°C ( $\pm 0.2^\circ\text{C}$ or $-0.4^\circ\text{F}$ )
Unit:	°C or °F Probe compatible with YSI 400 series probes (optional)

## 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:	$\pm 3$ mmHg

## CAPNOGRAPHY (Oridion Module)

Microstream Capnography with display of CO<sub>2</sub> waveform and digital values of EtCO<sub>2</sub>, FiCO<sub>2</sub> & RR. CO<sub>2</sub> gets priority for calculating Respiration rate.

EtCO <sub>2</sub> Range:	0 - 99 mmHg
FiCO <sub>2</sub> 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, SpO <sub>2</sub> , RR, Temperature & CO <sub>2</sub>
Manual Setting:	HR / PR, SpO <sub>2</sub> , Systolic, Diastolic, RR, Temperature & CO <sub>2</sub>
Re-Alarm Facility:	3 min. for acknowledge alarm

## TRENDS

72 hrs / 100 patients graphical and tabular trend for HR / PR, SpO<sub>2</sub>, RR, Temperature & CO<sub>2</sub> & ST.

NIBP Trend:	Last 240 readings (tabular)
Alarm Recall:	Last 12 critical alarms with date & time

## RECORDING (optional)

Type:	In-built dual channel thermal array recorder for recording ECG, plethysmograph, Respiration & CO <sub>2</sub> waveforms (any two-user selectable) with numerical data, NIBP & Tabular trend recording
Modes:	Direct / delayed / continuous and record on alarm features

## GENERAL

### 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 ( $\pm 5\%$ )
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)

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