

# VS-800

## Vital Signs Monitor

### Technical Specifications

#### Safety

Meet the requirements of IEC60601 series, CE marking according to MDD93/42/EEC

#### Dimension and Weight

Dimension: 170mm (W) x 240mm (H) x 170mm (D)  
Weight: < 3.5kg (including a battery)

#### Operation Environment

AC Power Requirements: 100-240 VAC ( $\pm 10\%$ ), 50/60 Hz ( $\pm 3$  Hz), 70 VA  
Temperature: 0 - 40°C (SmarTemp™: 10-40°C)  
Humidity: 15% - 95%, non-condensing

#### Patient Range

Adult, pediatric and neonatal

#### Performance Specifications

Display: 7 segment LEDs for systolic, diastolic, mean pressures, SpO<sub>2</sub>, Temp, and pulse rate  
3.4" FSTN LCD Resolution: 320x160 Pitch 0.24x0.24mm  
Trace: 1 plethysmogram waveform  
Sweep Speed: 25mm/s  
Indicator: Alarm indicator  
Power indicator  
Battery indicator  
Patient type indicator  
Pulse strength indicator  
NIBP status indicator  
Silence indicator

#### Interface:

Network port  
Nurse call interface

Trend: Flexible database lists trend for review of up to 1,200 measurements on up to 100 patients

Alarm: 3-level audible and visual alarm

Networking: Connected to Mindray central monitoring system or data exporting system

Recorder: Built-in, thermal array  
Record width: 48mm (record paper 50mm)  
Print speed: 25mm/s

#### Lead Acid Battery:

Rechargeable  
About 8 hours (Charging time)  
About 4.5 hours (Working time)

#### Li-ion Battery:

Rechargeable  
About 8 hours (Charging time)  
About 10.5 hours (Working time)

#### NIBP

Method: Automatic oscillometric  
Operation modes: Manual/Automatic/Continual  
Auto measure time: Adjustable  
Measurement unit: mmHg/kPa selectable  
Measurement types: Systolic, Diastolic, Mean, Pulse Rate  
Measurement range: Adult: 10-270mmHg  
Pediatric: 10-200mmHg  
Neonate: 10-135mmHg

#### Over-pressure protection:

YES  
Resolution: 1mmHg  
Alarm: Systolic, Diastolic, Mean, Pulse Rate  
Pulse Rate Range: 40 - 240 bpm  
Pulse Rate Resolution: 1 bpm  
Pulse Rate Accuracy:  $\pm 2$ bpm

#### Mindray SpO<sub>2</sub>

Measurement range: 0-100%  
Resolution: 1%  
Accuracy: Adult/Pediatric:  $\pm 2\%$  (70-100%);  
Neonatal:  $\pm 3\%$  (70-100%);  
0-69% unspecified  
Alarm range: 0-100%  
Pulse rate: Range: 20-254bpm  
Resolution: 1bpm  
Accuracy:  $\pm 3$ bpm  
Alarm range: 20-254bpm

#### MASIMO SpO<sub>2</sub>

Measurement range: 0~100%  
Resolution: 1%  
Accuracy:  $\pm 2\%$  (70-100%, Adult/Pediatric, non-motion);  
 $\pm 3\%$  (70-100%, Neonate, non-motion);  
 $\pm 3\%$  (70-100%, Adult/Pediatric/Neonate, motion);  
0-69% unspecified  
Alarm range: 1~100%  
Pulse rate: Range: 25~240bpm  
Resolution: 1bpm  
Accuracy:  $\pm 3$ bpm (non-motion)  
 $\pm 5$ bpm (motion)  
Alarm range: 25~240bpm

#### Nellcor OxiMax SpO<sub>2</sub>

Measurement range: 0-100%  
Compatible sensors: Nellcor sensor type: OxiMax series MAX-A, MAX-AL, MAX-N, MAX-P, MAX-I, MAX-FAST, MAX-R, OxiCliq A, OxiCliq N, OxiCliq P, OxiCliq I, D-YS, D-YSE, D-YSPD, DS-100A, OXI-A/N and OXI-P/I  
70%-100%  $\pm 2\%$ ; 0-69% unspecified (sensors: MAX-A, MAX-AL, MAX-N, MAX-P, MAX-I and MAX-FAST)  
70%-100%  $\pm 2.5\%$ ; 0-69% unspecified (sensors: OxiCliq A, OxiCliq N, OxiCliq P and OxiCliq I)  
70%-100%  $\pm 3\%$ ; 0-69% unspecified (sensors: D-YS, DS-100A, OXI-A/N and OXI-P/I)  
70%-100%  $\pm 3.5\%$ ; 0-69% unspecified (sensors: MAX-R, D-YSE and D-YSPD)

#### SpO<sub>2</sub> accuracy:

Pulse Rate: 20-250 bpm  $\pm 3$  bpm  
Range and accuracy: 251-300 bpm unspecified

#### SmarTemp™ Thermometer

Measurement range: 25 - 44°C (77 - 111.2 °F)  
Resolution: In MONITOR mode: 0.1°C (0.2 °F)  
Accuracy: In MONITOR mode: 25 - 32°C (77 - 89.6 °F) :  $\pm 0.2$ °C ( $\pm 0.3$  °F) including 32 °C (89.6 °F)  
In MONITOR mode: 32 - 44°C (89.6 - 111.2 °F) :  $\pm 0.1$ °C ( $\pm 0.2$  °F) Excluding 32 °C (89.6 °F)  
Typical Measurement time <12s



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DISTRIBUTOR:



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**mindray**  
healthcare within reach

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## Vital Signs Monitor



### The Stable Design

Prevents VS-800 from slipping and tilting back when pressing the buttons



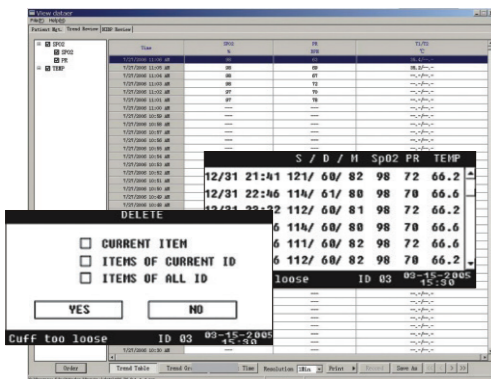
### SmarTemp™ Thermometer

2 types of probes: oral/axillary probe (blue) and rectal probe (red). Probe can auto-warm up to an initial temperature to be sure of an accurate measurement. Neonatal patients are suitable for axillary measurement.



### Powerful Data Storage and Management Functions

Allow you to easily keep and view patient data.  
Total storage capacity: 100 patient IDs;  
1200 sets of data for each parameter  
All data can be transferred to a PC through Windows-based software for review and A4 paper printing.



### Bar code scanner

Allow you to admit a patient quickly by using a bar code scanner, which is compatible with 1D and 2D bar code.

- Suitable for adult, pediatric and neonatal patients
- Clinical Proven SpO<sub>2</sub> technology
- SmarTemp™ thermometer
- Adjustable audible and visual alarms
- Central Station networking
- Removable and rechargeable battery, up to 10-hour working time
- Integrated handle and full mounting solutions

