

# MINDRAY



## VS-800 NEW VITAL SIGNS MONITOR

- Suitable for adult, pediatric and neonatal patients
- Large color LEDs for numerical display
- High resolution LCD for trend tabular and SpO<sub>2</sub> waveform display
- Masimo SET™ / Nellcor OxiMax™ / Mindray SpO<sub>2</sub>
- Adjustable audible and visual alarms
- Up to 1,200 measured data storage and review
- Exporting data to PC for storage and printing
- Networking with central monitoring station
- Up to 10-hour battery working time
- Easy to carry handle and full mounting solutions

# 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 (± 10%), 50/60 Hz (± 3 Hz), 70 VA  
Temperature: 0 - 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>, 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  
Pulse tone modulation (pitch tone)  
Alarm sound

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  
Adjustable  
Auto measure time: Adjustable  
Measurement unit: mmHg/kPa selectable  
Measurement types: Systolic, Diastolic, Mean, Pulse Rate  
Measurement range: Adult: 10-270mmHg  
Child: 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: 1bpm  
Pulse Rate Accuracy: ± 2bpm

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

Measurement range: 0 - 100%  
Resolution: 1%  
Accuracy: Adult/Pediatric: ± 2% (70-100%);  
Neonatal: ± 3% (70-100%);  
0-69% unspecified

Alarm range: 0-100%  
Pulse rate: Range: 20-254bpm  
Resolution: 1bpm  
Accuracy: ± 3bpm  
Alarm range: 20-254bpm

#### Masimo SET SpO<sub>2</sub>

Measurement range: 1-100%  
SpO<sub>2</sub> accuracy: No motion conditions Adult/Pediatric: 70%-100% ± 2%; 0-69% unspecified  
Neonate: 70%-100% ± 3%; 0-69% unspecified  
During motion conditions 70%-100% ± 3%; 0-69% unspecified

Low perfusion performance: Pulse amplitude: > 0.02%  
Light transmissivity: > 5%  
SpO<sub>2</sub> accuracy: ± 2%  
PR accuracy: ± 3 bpm  
Range 25 - 250 bpm  
Accuracy In static condition: ± 3 bpm  
In motion condition: ± 5bpm

#### Pulse Rate:

#### 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  
SpO<sub>2</sub> accuracy: 70%-100% ± 2%; 0-69% unspecified (sensors: MAX-A, MAX-AL, MAX-N, MAX-P, MAX-I and MAX-FAST)  
70%-100% ± 2.5%; 0-69% unspecified (sensors: OxiCliq A, OxiCliq N, OxiCliq P and OxiCliq I)  
70%-100% ± 3%; 0-69% unspecified (sensors: D-YS, DS-100A, OXI-A/N and OXI-P/I)  
70%-100% ± 3.5%; 0-69% unspecified (sensors: MAX-R, D-YSE and D-YSPD)

Pulse Rate: Range and accuracy 20-250 bpm ± 3 bpm  
251-300 bpm unspecified

#### Selectable configurations:

(With lead acid battery)

NIBP  
SpO<sub>2</sub> (Mindray)  
NIBP + SpO<sub>2</sub> (Mindray)  
NIBP + Masimo SET™ SpO<sub>2</sub>  
NIBP + Nellcor Oximax™ SpO<sub>2</sub>

#### Options:

Recorder, Li-ion battery



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