

# VS-600

## Vital Signs Monitor

### Physical Specifications

Weight	≤1.9 kg (with SpO <sub>2</sub> , NIBP and a battery ) ≤1.7 kg (with NIBP and a battery )
Size	134 mm × 120 mm × 243 mm
Screen type	Segment display
Screen size	90mm × 90mm

**EMC Compliance** Meets the requirements of IEC 60601-1-2.

### Classifications

Defibrillation proof (protection against electrical shock)	Type CF: SpO <sub>2</sub> , NIBP and Temp
Water proof	IPX1
Degree of mobility	Portable

**Patient Type** Adult, Pediatric, Neonatal

### NIBP

Meet standards of IEC 80601-2-30, ISO 81060-2.

Technique	Oscillometry
Operation mode	Manual
Parameters	Systolic, diastolic, mean, Heart Rate
Max Measure time	Adult/Pediatric: 180 s, Neonate: 90 s
Systolic range	Adult: 40 to 270 mmHg Pediatric: 40 to 200 mmHg Neonate: 40 to 135 mmHg
Diastolic range	Adult: 10 to 210 mmHg Pediatric: 10 to 150 mmHg Neonate: 10 to 100 mmHg
Mean range	Adult: 20 to 230 mmHg Pediatric: 20 to 165 mmHg Neonate: 20 to 110 mmHg
NIBP accuracy	Max mean error: ± 5 mmHg Max standard deviation: 8 mmHg
NIBP resolution	1 mmHg

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

Meet standards of ISO 80601-2-61.

SpO <sub>2</sub> range	0 to 100 %
SpO <sub>2</sub> resolution	1%
SpO <sub>2</sub> accuracy	70 to 100%: ±2% (without motion in adult /pediatric mode) 70 to 100%: ±3% (without motion in neonate mode) 0% to 69%: Not specified.

Perfusion indicator (PI) Yes, for Mindray SpO<sub>2</sub>

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

Meet standards of ISO 80601-2-61.

SpO <sub>2</sub> range	1 to 100 %
SpO <sub>2</sub> resolution	1%
SpO <sub>2</sub> accuracy	70 to 100%: ±2% (without motion in adult /pediatric mode) 70 to 100%: ±3% (without motion in neonate mode) 70 to 100%: ±3% (measured with motion) 1% to 69%: Not specified.

Perfusion indicator (PI) Yes, for Masimo SpO<sub>2</sub>

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

Meet standards of ISO 80601-2-61.

SpO <sub>2</sub> range	0 to 100 %
SpO <sub>2</sub> resolution	1%
SpO <sub>2</sub> accuracy	70 to 100%: ±2% (adult/pediatric) 70 to 100%: ±3% (neonate) 0% to 69%: Not specified.

Perfusion indicator (PI) No

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

PR range	20 to 254 bpm
PR accuracy	± 3 bpm (without motion)

### PR from Masimo SpO<sub>2</sub>

PR range	25 to 240 bpm
PR accuracy	± 3 bpm (without motion) ± 5 bpm (with motion)

### PR from Nellcor SpO<sub>2</sub>

PR range	20 to 300 bpm
PR accuracy	±3 bpm (20 to 250 bpm) Not specified ( 251 to 300 bpm)

### PR from NIBP

PR range	40 to 240 bpm
PR accuracy	± 3 bpm or ±3%, whichever is greater

### SmarTemp™ Temperature

Meet standard of ISO 80601-2-56.

Technique	Thermal resistance
Operating mode	Adjusted mode (predictive mode) Direct mode (monitor mode)
Measurement range	Monitor mode: 25 °C to 44 °C (77 °F to 111.2 °F) Predictive mode: 35 °C to 43 °C (95 °F to 109.4 °F)

Accuracy (Monitor mode)

	25 °C to 32 °C (not include 32 °C): ±0.2 °C 32 °C to 44 °C (include 32 °C): ±0.1 °C or 77°F to 89.6°F (not include 89.6°F): ±0.4 °F 89.6°F to 111.2°F (include 89.6 °F): ±0.2 °F
Resolution	± 0.1 °C or ± 0.2 °F

### Indicator

LED indicator	Power on LED (1), two color: yellow/green AC power LED (1), green Battery LED (1), green
Audible indicator	Give pulse tone, power-on self check tone
Other	Technical alert on screen

### Interfacing

Main unit	AC power connector (1) RS 232 connector (1), for DIAP protocol
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### Power

AC line voltage	100 to 240 VAC (±10 %)
AC frequency	50/60 Hz (±3 Hz)



AC current	0.9 to 0.5 A
Battery type	Rechargeable lithium-ion battery,
Battery run time	At least 11 hours (2600mAh battery) At least 22 hours (4500mAh battery)

#### Environmental Requirements

Temperature	Operating: 0 to 40 °C (without Temp) 5 to 40 °C (with Temp) Storage: -20 to 60 °C
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Relative humidity	Operating: 15 to 95 % (non condensing) Storage: 10 to 95 % (non condensing)
Barometric	Operating: 57.0 to 107.4 kPa Storage: 16.0 to 107.4 kPa

Some of functions marked with an asterisk may not be available.  
Please contact your local Mindray sales representative for the most current information.

[www.mindray.com](http://www.mindray.com)

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