VS-800
Vital Signs Monitor

MINDRAY

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℃ (SmarTemp™ : 10-40℃)
Humidity: 15% - 95%, non-condensing

Patient Range
Adult, pediatric and neonatal

Performance Specifications
Display:
7 segment LEDs   for systolic, diastolic, mean pressures, SpO$_2$,Temp, and pulse rate
3.4" FSTN LCD   Resolution:320x160   Pitch 0.24×0.24mm
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: 1bpm
Pulse Rate Accuracy: $\pm$2bpm

Mindray SpO$_2$
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$3bpm
                      Alarm range: 20-254bpm

MASIMO SpO$_2$
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$3bpm（non-motion）
                                $\pm$5bpm（motion）
                      Alarm range: 25~240bpm
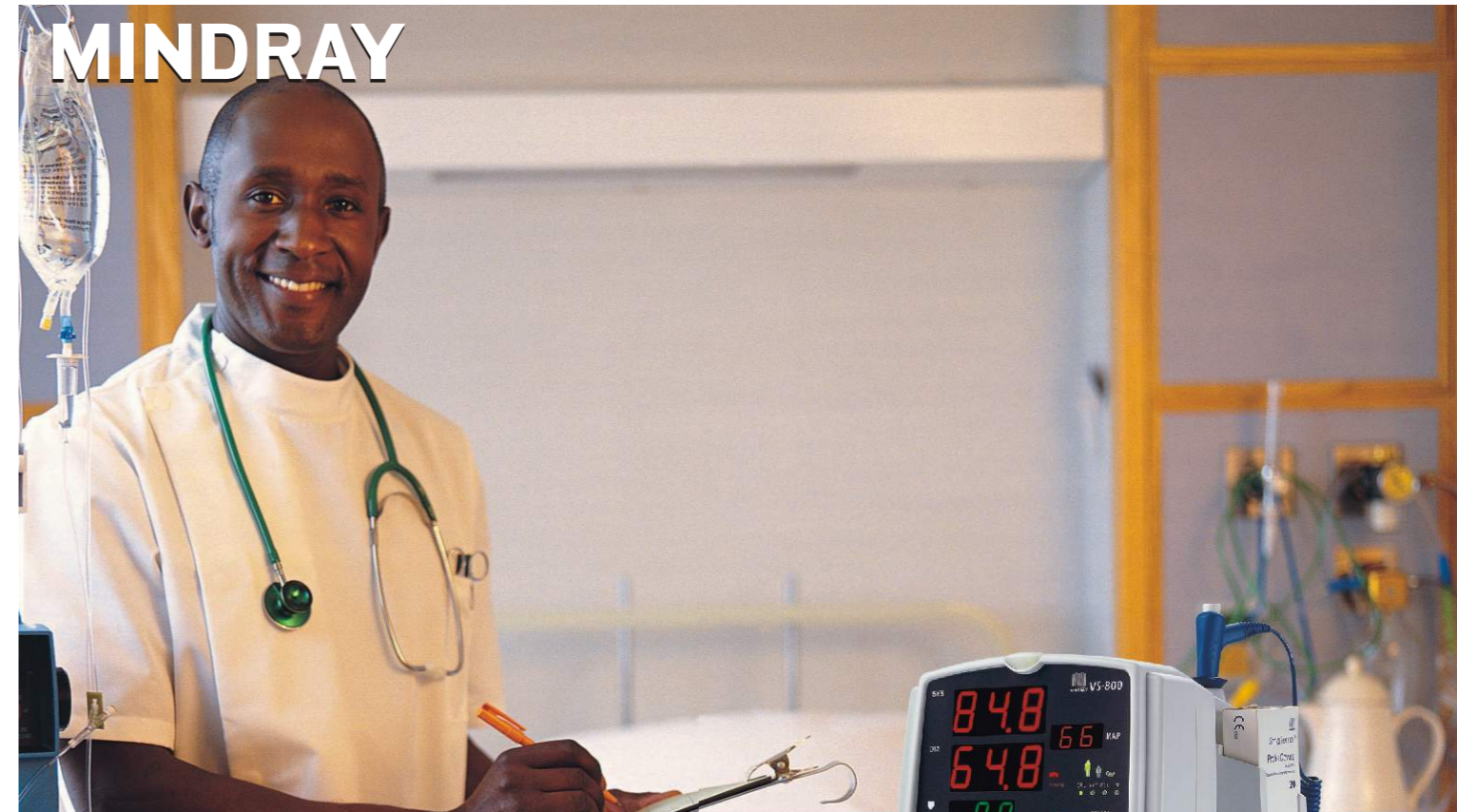
Nellcor OxiMax SpO$_2$
Measurement range :   0-100%
Compatible sensors : Nellcor sensor type: OxiMax series MAX-A,
                      MAX-AL, MAX-N, MAX-P, MAX-I, MAX-FAST,
                      MAX-R, OxiCliq A, OxiCliq N, OxiCliq P, OxiCliq I,
                      D-YS, D-YSE, D-YSPD, DS-100A, OXI-A/N and OXI-P/I
SpO$_2$ accuracy :   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)
Pulse Rate:
Range and accuracy   20-250 bpm $\pm$3 bpm
                      251-300 bpm unspecified

SmarTemp™ Thermometer
Measurement range   25 - 44℃(77 - 111.2 °F)
Resolution   In MONITOR mode: 0.1℃ (0.2 °F)
Accuracy   In MONITOR mode: 25 - 32℃ (77 - 89.6 °F) : $\pm$0.2℃ ($\pm$0.3 °F)

                      including 32 ℃ (89.6°F)
                      In MONITOR mode: 32~44℃ (89.6 - 111.2 °F) : $\pm$0.1℃ ($\pm$0.2 °F)

                      excluding 32 ℃ (89.6°F)
Typical Measurement time ＜12s

CE 0123

DISTRIBUTOR:

VS-800
Vital Signs Monitor

MINDRAY™

CE 0123

- Suitable for adult, pediatric and neonatal patients
- Clinical Proven SpO$_2$ 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

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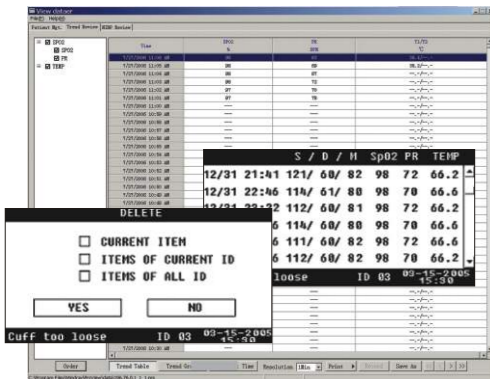
Bar code scanner
Allow you to admit a patient quickly by using a bar code scanner, which is compatible with 1D and 2D bar code.

SmarTemp™ thermometer is activated When the probe is taken up

Alarm light indicator

0.8″ large LED displays

- Patient type indicators
- Temp measuring site indicators

Built-in thermal recorder

Easy button press gives you a rapid way to access all major functions

High resolution 3.4″ LCD