

vsign10

vsign10 is a portable pulse oximeter for measuring oxygen saturation of arterial blood and plus rate of patient. It can be used to monitor patients continuously, during transportation or for individual readings. **vsign10** is used to monitor the conditions of a patient in an intensive care unit or resuscitation room. Furthermore, the data and trend of the rate detected are displayed on the front LCD screen.

The overall potential advantages of the pulse oximeter are as follows:

- The monitoring may detect the first symptoms of hypoxia before they become dangerous.
- It may protect a patient in a high-risk situation.
- It gives the patient a sense of safety regarding their condition.

vsign10 has two types of probe: a reusable probe and a disposable one that can be applied to neonate or paediatric patients, or as disposable use for adults.

vsign10 can display on the LCD screen:

- Pulse rate
- Arterial blood oxygen saturation

The user can set both the acoustic and visual alarm criteria for each parameter measured by pressing the buttons on the front panel.

The biometric signals provided by the apparatus include:

- Heart rate derived from the plethysmographic signal
- Percentage of oxygen saturation in the blood obtained by measuring the variables during the pulse cycle of arterial blood in the tissues.

Alternatively the apparatus can also display on a LCD screen:

- Plethysmographic wave
- Table of vital sign trends

vsign10 operates 2 alarm priorities for adults and neonate, and can memorize up to 72 hours of events, displaying the heart rate and SpO2 percentage.

The **vsign10** monitor consists of a moderate weight main unit, the SpO2 probe connects on the top side, whilst the battery charger connects on the bottom side, there is also a miniUSB port for service use only.



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Technical specification

Display

TFT colour LCD, graphic wave form, 10 level vertical bar graph
Resolution320 X 240 Pixels
Numeric Data DisplayCurrent Oxygen Saturation, Pulse Rate

Indicators

- Low Battery Icon
- SpO₂ No Sensor, No Finger Icon
- SpO₂ Pulse Search Icon
- Low Perfusion Icon
- Alarm ON/Off Icon
- Screen Mode Icon
- Language Mode Icon
- Sound Mode Icon
- High Ambient Icon

Measurement Range

SpO₂ Saturation0 ~ 100 %
HR30 ~ 300 BPM

Accuracy

SpO₂.....70 ~ 100 % (1%step) : ±2%
Under 70%unspecified
Pulse Rate30 ~ 300 BPM : ±2% or ±2 bpm

Power Consumption

100~240VAC, 50/60 Hz
DC 5V Adaptor

Battery

Lithium-ion 3.7V 1CELL (1130mAh) Option 2CELL(2260mAh)
3 hours on a full charge (1CELL)
6 hours on a full charge (2CELL)

SpO₂ Sensor

Adult finger probe

Trend Memory

Oxygen Saturation and Pulse rate Memories (72 hours maximum)

Physical Dimension

165mm(H) X 70mm(W) X 30mm(D), 1 CELL 200 g, 2CELL 250 g

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