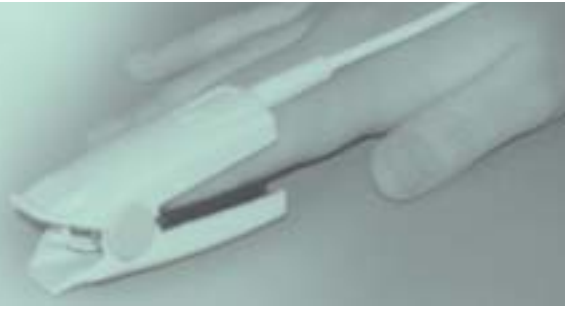
pulse oximetry



2100 Pulse Oximeter

- Patented FFT technology.
- Motion artifact rejection.
- Low perfusion performance.
- Microsoft Windows compatible.
- Four LED capability.
- All digital design.
- Compact and economical.

The 2100 pulse oximeter uses the very latest in digital technology. The patented FFT technology ensures excellent performance, not only regarding motion artifact rejection, but also in cases of low perfusion. The technology enables accurate and reliable monitoring of all patients from neonates to paediatrics to adults.

To compliment the 2100 there is a wide range of reusable and disposable sensors available that utilise either 2 or 4 LED's.

digital
technology inside

VIAMED

2100 Pulse Oximeter

Power

Voltage input	100-240 VAC, 50-60 Hz
Power consumption	33 VA
Fuses	2x 2 A, 250 V, metric
Battery type	Sealed lead-acid
Battery capacity	5 hours
Battery charge time	4 hours

Environmental

Operating temperature	-5°C to +45°C (23°F to 113°F)
Storage temperature	-20°C to +60°C (-4°F to 140°F)
Operating humidity	5% to 95%, non-condensing
Operating altitude	-304m to 5,486m (-1,000 ft to 18,000 ft) 503 mbar to 1059 mbar

Range

SpO_2 (functional)	0% to 100%
Pulse rate (beats per minute)	30-240
Normal sensitivity (perfusion %)	0.06% to 20%
High sensitivity (perfusion %)	0.02% to 20%
Perfusion (percent)	$(AC/DC)_{905nm} X100$

Resolution

SpO_2 (functional)	1%
Pulse rate (beats per minute)	1

Dimensions

Size	10 x 27 x 25 cm (4 x 11 x 10 inches)
Weight	4 kg (9 lbs)

Trending 1 hour of trending, 10 second resolution. Output to serial printer or other serial device.

Modes

Averaging	Smart algorithm utilising 4 to 12 second data stream - depending on signal to noise ratio
Sensitivity	Normal and High
Patient	Adult and Paediatric

Alarms

Audible and visual alarms

High and low saturation	20-100%
Pulse rate	30-240 bpm

Sensor condition, system failure and low battery

Display

SpO_2, pulse rate, pleth waveform, perfusion indicator, alarm status, trends and status messages

Type	Backlit LCD
Pixels	240x64
Dot pitch	0.53 mm

Research interface for investigational use

Software	Digital Dolphin V6.0, Windows 95, 98, ME, NT 2000 and CE compatible
LEDs	660 nm, 724 nm, 805 nm, 905 nm

Full disclosure of the photo-plethysmogram (275 Hz)

Standard interface for clinical use

Electrically isolated RS-232 DB-9 female connector
Streaming date, time, SpO_2, pulse rate
Analogue output
Nurse call

Sensors

Reusable finger clip (adult and paediatric >30 kg).
Other sensors: Patented micro dot series, patented Co-flex series, reflectance and disposable sensors.

Accuracy

SpO_2 (functional)

Adult or Paediatric >30 kg	70-100%	±2%
	0-69%	Unspecified

No motion and normal perfusion

Pulse rate (beats per minute)

Adult or Paediatric >30 kg	30-240 bpm	±3 bpm

No motion and normal perfusion

SpO_2 (functional)

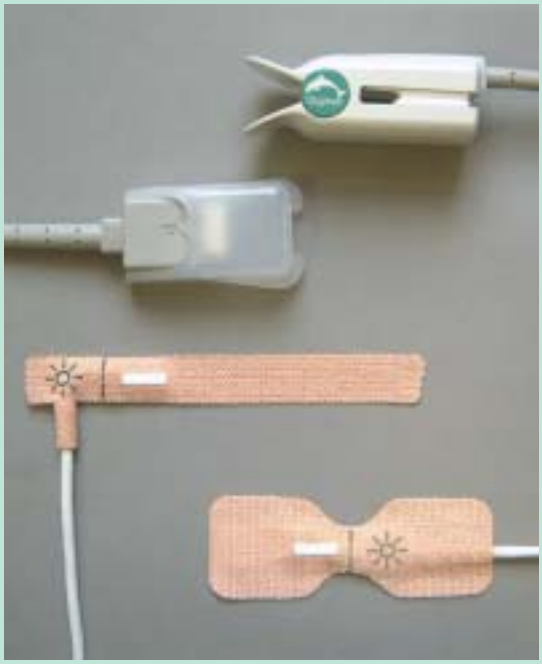
Adult or Paediatric >30 kg	70-100%	±3%
	0-69%	Unspecified

Low perfusion <0.2%

Pulse rate (beats per minute)

Adult or Paediatric >30 kg	30-240 bpm	±5 bpm

Low perfusion <0.2%



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Distributed by:

Viamed Limited · 15 Station Road · Cross Hills
Keighley · West Yorkshire · BD20 7DT · United Kingdom
Tel: +44 (0)1535 634542/636757 Fax: +44 (0)1535 635582
Email: info@viamed.co.uk Website: www.viamed.co.uk

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