

pulse oximetry

VM-2103 Finger Oximeter

Fast and accurate measurement of SpO₂ and pulse rate, even in cases of low perfusion.

- Display can be viewed in 4 rotations.
- Large and clear, usable Pleth waveform.
- Large digit display formats.
- Colour coded signal quality and signal strength indicator.
- Adjustable brightness; 6 levels.
- Designed and type tested to ISO 9919:2005.
- Clinical validation in accordance with ISO 9919:2005.
- Accuracy $A_{RMS} = 2.0\%, \pm 1 \text{ S.D.} = 1.86\%$

**Suitable for
hospital and
emergency
services
applications**



The VM-2103 is encapsulated in soft durable silicone making it both comfortable and robust. The large, colour Organic LED display offers superb visibility in all lighting conditions, including direct sunlight, and the brightness can be adjusted to suit individual applications.

This durable and compact unit utilises 16 bit processing technology enabling a fast 'true reading' response, and facilitates low perfusion capabilities.

The VM-2103 is an extremely economical piece of equipment for the spot monitoring of SpO₂ and pulse rates and can be used in a variety of environments, from use in hospitals, emergency services, clinics and dental surgeries; through to spot-monitoring before, during and after exercise.



Actual Size

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VM-2103 Finger Pulse Oximeter

Measuring Range

SpO ₂	0 - 100%
Pulse Rate	20 - 300 bpm

Accuracy

SpO ₂ (70 - 100%)	Accuracy A _{RMS} * = 2.0% , ± 1 S.D = 1.86%
Pulse Rate	± 1 bpm (≤100 bpm) ± 1% (>100 bpm)

Optical Specifications

Red emitter	660 nm, typ. 3.5 mW
Infrared emitter	905 nm, typ. 3.5 mW

Display

Features	Colour OLED, adjustable brightness (6 levels), 20 x 26 mm, 262,000 colours, 128 x 96 pixels
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Data displayed	Oxygen saturation, pulse rate, plethysmogram, pulse indicator, bar graph
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Indicators	Pulse signal quality & signal strength, battery status
Digit height (max)	10 mm
Pleth waveform height (max)	10 mm

Environmental Conditions

Operating temperature	-20 - 60°C at 10 - 95% RH, 600 - 1300 hPa
Storage temperature	-30 - 70°C at 10 - 95% RH, 600 - 1500 hPa

Regulatory Approvals

Standards	CE Class IIa in accordance with MDD 93/42/EEC BS EN 60601-1:2006, BS EN 60601-1-1:2001 BS EN 60601-1-2:2007, BS EN ISO 9919:2005 Class II, Type BF
Safety	

Assembly

Construction	Water ingress protection IPX2
Dimensions	62 mm (L) x 38 mm (W) x 35 mm (H)
Weight	Approximately 63 g (including batteries)
Power Supply	2 x 1.5V, AAA batteries
Battery Life	Approximately 24 hours of continuous operation

Part Number

VM-2103	0012103
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EAN-13 (GTIN-13) Barcode: 5051826003206

Standard accessories included:

Lanyard

2 x AAA Batteries

Optional Accessories

Soft Carry Case, with belt loop, colour - black	0022190
Soft Carry Case, with belt loop, colour - orange	0022191
Soft Carry Case, with belt loop, colour - green	0022192

* in accordance with ISO 9919:2005 Standards.

CE 0086

Specifications Subject to Change



Pleth Waveform 1



Rotation 1



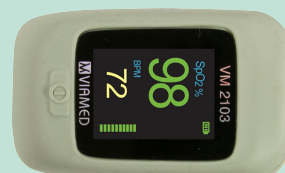
Pleth Waveform 2



Rotation 2



Rotation 3



Rotation 4

Distributed by:



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ISO 13485:2003