VM-2160 Hand Held Pulse Oximeter

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Measuring Range SpO ₂ Pulse Rate	0 - 100% 20 - 300 bpm
Accuracy SpO ₂ (70 - 100%) Pulse Rate	< 3.0% Accuracy A _{RMS} *, ± 1 S.D = 2.0% ± 1 digit (≤100bpm) ± 1% (>100 bpm)
Optical Specifications Red emmitter Infra-red emitter	660nm, typ 3.5mW 905nm, typ 3.5mW
Display Features	Colour OLED, 26,000 colours, 128 x 160 pixels
Date displayed	Oxygen saturation, pulse rate, plethysmogram, bar graph, short and long term trends
Indicators	Signal quality, pulse amplitude, battery status, alarm silenced, volume silenced, sensor detection, sensor disconnection
Trend Information Short term trend Long term trend	15 / 30 / 240 minutes > 480 hours, maximum 50 datasets
Environmental Conditions Operating temperature Storage temperature	-20 - 50°C , 15 - 95% RH, 600 - 1300 hPa -30 - 70°C, 10 - 95% RH, 600 - 1500 hPa
Regulatory Approvals Standards Safety	CE 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
Assembly	PX2 with silicone cover, splash-proof version of IPX4 available on request. 118 mm (L) x 60 mm (W) x 25 mm (H) Approx. 160 g (including batteries, without sensor) 3 x AA alkaline batteries. > 2 days continuous operation or approx 5 days in economy power mode USB 2.0
Part Numbers VM-2160* * Language package: Central European, including English, Afrikaans, Dutch, French, German, Hunge	
Additional Accessories Available Multi-site Y Sensor Lingual Sensor Lingual Clip (Small) Lingual Clip (Medium) Lingual Clip (Large) Pulse Oximetry Extension Cable, 1.2m cable leng Pulse Oximetry Extension Cable, 2.4m cable leng Silicone Protective Cover Carrying Case Carrying Pouch Universal Mounting Plate, V-adapter with female p	th (XT6501) 0014896 0022160 0022178 0022179

0121181

0121184 0121197 0121200

'V' mount rail clamp
'V' mount pole clamp, multi-position

Universal Mounting Clamp, with vertical and horizontal adjustments

'V' mount pole clamp (Small: 14 - 25mm span)

'V' mount pole clamp (Large: 16 - 40mm span)

^{*} in accordance with ISO 9919:2005 Standards.

NB. The Universal Mounting Kit is required when using any of the above mounting options.

CE

Distributed by:



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VM-2160

Hand Held Pulse Oximeter

Designed with the most difficult conditions in mind

For spot checking or constant monitoring of SpO₂ and pulse rate

Clear and bright, colour OLED display

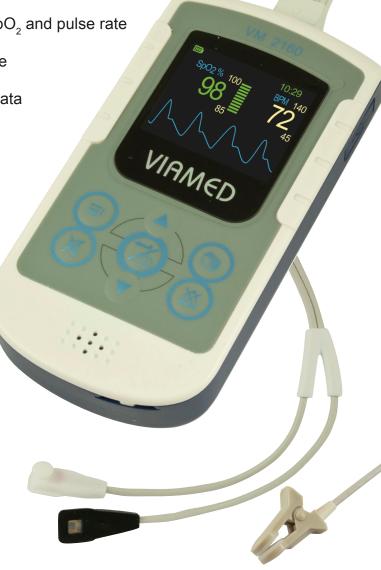
 Robust, ergonomic design with durable silicone protective cover

Stores and restores up to 480 hours of trend data

Adjustable high and low alarms

Antibacterial keypad





The ergonomic VM-2160 hand held pulse oximeter has the durability of a compact and lightweight hand held unit for spot checking of SpO₂, but also has the power and functionality of a stand alone pulse oximeter.

The VM-2160 incorporates adjustable high and low alarms for both the SpO_2 and pulse rate with audible pulse tones, and is able to store and restore up to 480 hours of patient trend data, enabling the unit to also be used for continual patient monitoring.

Utilizing the latest Organic LED display technology, the clear and bright colour screen offers superb visibility in all lighting conditions, including direct sunlight.



The ergonomic design of the VM-2160 Hand Held Pulse Oximeter combines outstanding performance and reliability in pulse oximetry

Standard Package

- VM-2160 Pulse Oximeter Monitor
- Reusable SpO₂ sensor*
- USB data cable
- Silicone protective cover
- PC software
- Instruction manual on CD
- * Please select either Lingual Sensor or Multi-site Y Sensor, and indicate at the time of ordering





VM-2160 OLED Display



Key features of the VM-2160 Hand Held Pulse Oximeter

- Self-explanatory and ergonomic functions enable intuitive operation
- The colour information display, as well as the simple information structure, support quick decisions and a rapid user reaction in critical situations
- Intelligent linking of visual and acoustic information and signals
- The pulse tone indicates the level of oxygen saturation
- Automatic suppression of ambient light influences
- Signal quality indications
- Simple handling and clear error messages effectively prevent incorrect operation of the VM-2160
- 20 language options available for operational control
- Rapid data transfer using a standard USB interface
- Silicone protective cover included in the package
- Powered by standard AA alkaline batteries
- The most modern technologies and energy-saving elements enable continued use of the device over several days







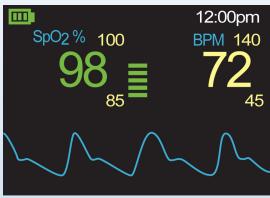
Powerful Pulse Oximetry PC Software

With the convenient Pulse Oximetry PC Software all measured values, selected alarm limits and alarm messages can be transferred to the computer via the USB interface. The data can be viewed on the computer and patient information added. The PC software enables basic statistical evaluation of the stored data.

The software can also be used to display and store the measurement values and alarm messages on the computer in parrallel to ongoing measurements. This function is activated by setting the real-time mode of the VM-2160. When this mode is activated, the device transfers the actual measurement values for Pulse Rate measurement values every 4 seconds to the computer via the USB interface.



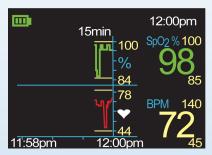
Display Formats



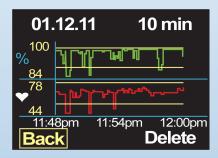
Default Display



Large Digit Display



Short Term Trending Display



Long Term Trending Display

Mounting Options and Accessories

For use with VM-2160















