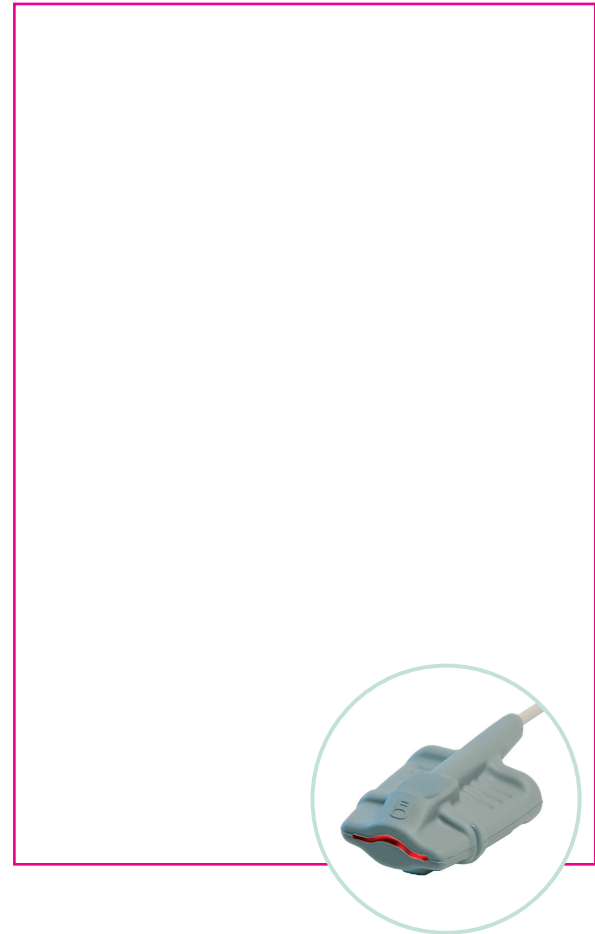




VM-3160 SMARTsat High Performance Pulse Oximeter

with movement rejection and Neonatal mode

- Ergonomic handheld monitor for continuous and spot check monitoring
- Clear and bright, colour TFT display with excellent contrast
- Supported by Alkaline batteries, rechargeable battery or external power supply.
- Self-explanatory functions enable intuitive operation
- Includes a SMARTsat soft silicone sensor
- Stores > 400 hours of trend data
- Adjustable high and low alarms
- Antibacterial keypad



The VM-3160 with integrated SMARTsat technology has been developed over the last few years in close cooperation with well-established research institutions and university hospitals. The very latest and innovative signal processing technologies and algorithms enable precise measurement, even under very difficult physiological conditions during patient transport, shiver and the monitoring of infants.

The VM-3160 SMARTsat offers high performance monitor with motion stability for spot monitoring or constant monitoring of SpO₂ and Pulse rate

- For spot checking or constant monitoring of SpO₂ and Pulse Rate
- Includes a SMARTsat soft silicone sensor -
*other sensors can be specified
- Stores and restores up to 480 hours of trend data
- Adjustable high and low alarms

VM-3160 Standard Package

- VM-3160 SMARTsat Pulse Oximeter
- Reusable SMARTsat adult silicone finger sensor*
- Silicone protective cover
- PC review software
- USB data cable
- 4 x AA and Li-Poly Battery
- Hard shell carry case



* Alternatively please select from Soft Sensor (Small Adult or Paediatric), Finger Clip Sensor, Silicone Wrap Sensor, Ear Sensor and indicate at the time of ordering.



Long term
monitoring
and
trending

Key features of the VM-3160 SMARTsat 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 rate provides information about 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-3160
- 20 language options available - for operational control
- The most modern technologies and energy-saving elements enable continued use of the device over several days
- Rapid data transfer using a standard USB interface
- Silicone protective cover included in the package
- Can be powered by standard AA alkaline batteries, Li-poly rechargeable battery or mains powered.

VM-3160 SMARTsat® SpO₂ accuracy validation results

A_{RMS} in the SaO₂ ranges ²⁾

Sensor Type	60 - 100%	70 - 100%	90 - 100%	80 - 90%	70 - 80%	60 - 70%
SF7500VM Finger Clip Sensor	1.6	1.5	1.4	1.3	1.7	2.3
SC7500VM ¹⁾ Silicone Soft Sensor	1.6	1.6	1.1	1.7	1.8	1.9
W7500VM Wrap Sensor	1.6	1.4	1.0	1.2	1.8	2.8
EP7500VM Ear Clip Sensor	2.2	2.1	1.0	1.7	2.8	3.5
10-AP-VM Disposable Sensor - Adult	2.1	2.1	2.2	1.9	2.0	2.2

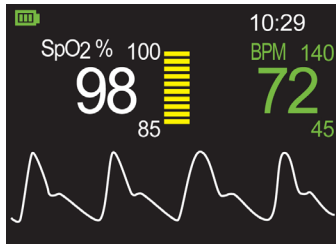
¹⁾ Accuracy statement applies to SC7500VM, SCM7500VM and SCP7500VM

²⁾ As inherent to their functional principle, pulse oximetry measurements underlie statistical spread; therefore only two thirds of the measurement data are within the specific range of +/- ARMS

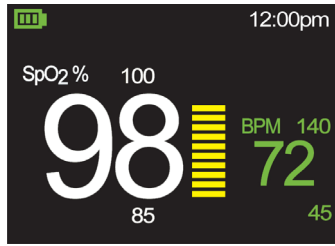
VM-3160 SMARTsat Display

VM-3160 SMARTsat in Protective Cover

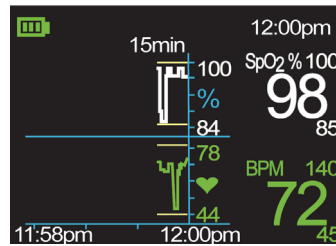
Display Formats??



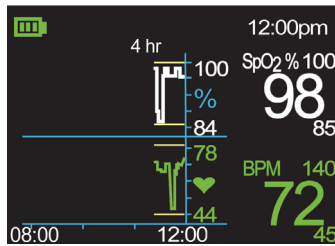
Default Display



Large Digit Display



Short Term Trending Display



Long Term Trending Display

Sensors and Cables



0014651

SMARTsat
Reusable Adult Finger Sensor
1.2m cable length



0014752

SMARTsat
Reusable Adult Silicone Soft Sensor
1.2m cable length



0014851

SMARTsat
Reusable Silicone Wrap Sensor
1.2m cable length



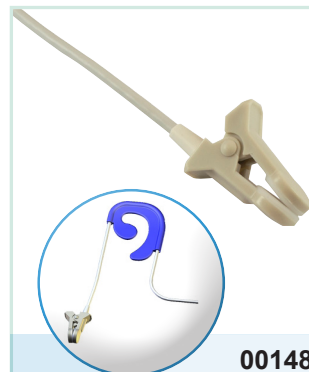
0014895

Pulse Oximetry
Extension Cable
1.2m cable length



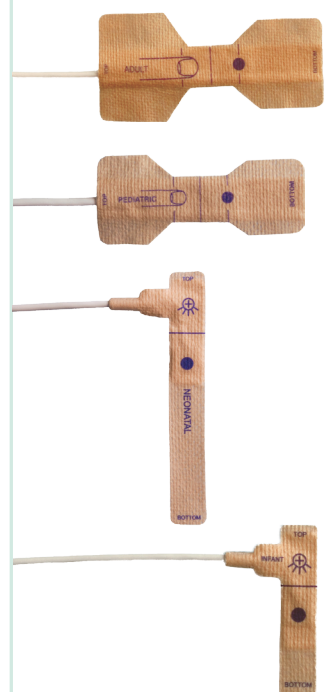
0014753

SMARTsat
Reusable Paediatric Silicone Soft Sensor
1.2m cable length



0014850

SMARTsat
Reusable Ear Sensor
1.2m cable length



SMARTsat
Disposable Plaster Tape Sensors
Box of 24 sensors

Adult 0.45m cable	0015010
Paediatric 0.45m cable	0015011
Infant 0.90m cable	0015012
Neonatal 0.90m cable	0015013

Powerful Pulse Oximetry PC Software



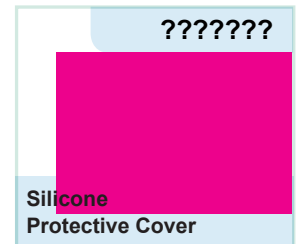
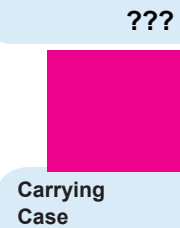
With the convenient Pulse Oximetry PC Software all measured values, selected alarm limits and alarm messages can be transferred to a computer via the USB interface.

The data can be viewed on a computer and patient information added. The PC software enables basic statistical evaluation of the stored data, to be printed or exported as CSV file for processing with additional software.

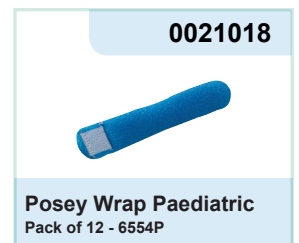
Mounting Options and Accessories

For use with VM-3160

- Fluid repellent
- Non rot
- U.V. stable
- Washable at 60°C
- Self healing and waterproof zips
- micrAgard silver-lining inners
- Abrasion and tear resistance
- High visibility and reflective properties



N.B.: The universal mounting plate is required when using any of the mounting options shown.



Applications

The VM-3160 SMARTsat with Silicone Finger Sensor is suitable for the following applications:

- Clinical Environments
- Rescue and emergency services
- Sleep studies
- Home care
- Long-term monitoring
- Stress testing



N.B. The universal mounting plate is required when using any of the above mounting options

⁴ Refers to SC7500VM, SCM7500VM and SCP7500VM

Distributed by:



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Part Number: ???????
Date: 12/18