

pulse oximetry



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.
- Includes a 3rd generation soft silicone sensor*.
- 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 SpO₂ 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 at the bedside for continual patient monitoring.

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

The VM-2160 can be used in a variety of applications, from use in hospitals, paramedic ambulances, clinics and dental surgeries - making this an extremely flexible and durable piece of equipment.

VIAMED

Available in two variants...



For spot checking applications

Long term monitoring and trending

VM-2160-L Light

- For spot checking or constant monitoring of SpO_2 and pulse rate.
- Short term trending.

Standard Package

- VM-2160-L.
- Reusable adult finger sensor.
- Silicone protective cover.
- 3 x AA batteries.



VM-2160

- For spot checking or constant monitoring of SpO_2 and Pulse Rate.
- Includes a 3rd generation soft silicone sensor - *other sensors can be specified.
- Stores and restores up to 480 hours of trend data.
- Adjustable high and low alarms.

Standard Package

- VM-2160.
- Reusable adult silicone finger sensor.
- Silicone protective cover.
- PC review software.
- USB data cable.
- 3 x AA batteries.





OLED Display



VM-2160 in protective cover with antibacterial keypad



Standard Finger Sensor for the VM-2160-L



Silicone Soft Sensor for VM-2160. Other types available on request.

Display Formats



Default display



Large digit display



Short term trending display



Long term trending display*

* Not available on VM-2160-L

VM-2160 Carrying Accessories



Armband

Protective, adjustable neoprene armband allows the patient or operator to wear the VM-2160 pulse oximeter on their arm.

The armband is ideally suited to situations where other methods of mounting the instrument may not be available.

Incorporates a velcro tab to secure excess sensor cable.



Carrying Case

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

220 (W) x 100 (H) x 80 (D) mm



Carrying Pouch

Same microAgard material as the carrying case. Includes a velcro cable tidy, pocket for cable storage and a clear protective cover for the VM-2160.

80 (W) x 125 (H) x 65 (D) mm

See reverse for Technical Specifications...

Measuring Range		
SpO ₂	0 - 100%	
Pulse Rate	20 - 300 bpm	
Accuracy		
SpO ₂ (70 - 100%)	1<3.0% Accuracy A _{RMS} *, ± 1 S.D = 2.0%	
Pulse Rate	± 1 digit (≤100bpm) ± 1% (>100 bpm)	
Optical Specifications		
Red emitter	660nm, typ 3.5mW	
Infra-red emitter	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, sensor detection, sensor disconnection	
Trend Information		
Short term trend	15 / 30 / 240 minutes	
Long term trend	> 480 hours	
Environmental Conditions		
Operating temperature	-20 - 50°C , 15 - 95% RH, 600 - 1300 hPa	
Storage temperature	-30 - 70°C, 10 - 95% RH, 600 - 1500 hPa	
Regulatory Approvals		
Standards	CE Class IIb 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	
Safety	Class II, Type BF	
Assembly		
Construction	IPX2 with silicone cover, splash-proof version of IPX4 available on request.	
Dimensions	118 mm (L) x 60 mm (W) x 25 mm (H)	
Weight	Approx. 160 g (including batteries, without sensor)	
Power Supply	3 x AA alkaline batteries.	
Battery Life	> 2 days continuous operation or approx 5 days in economy power mode	
PC interface	USB 2.0	
Part Numbers		
VM-2160-L*		0012155
EAN-13 (GTIN-13) Barcode: 5051826002582		
NHS Stock Code: FBC205		
* Language package: Central European, including: English, Afrikaans, Dutch, French, German, Hungarian, Italian, Polish, Portuguese and Spanish.		
VM-2160-L - Scandinavian languages (English, Danish, Finnish, Swedish)		0012156
VM-2160-L - Special EU characters languages (English, Greek, Russian, Turkish)		0012157
VM-2160-L - Asia I languages (English, Chinese and Traditional Chinese)		0012158
VM-2160-L - Asia II languages (English, Japanese and Korean)		0012159
Part Numbers		
VM-2160*		0012160
EAN-13 (GTIN-13) Barcode: 5051826000007		
NATO Stock Number: 6515-99-915-8170		
NHS Stock Code: FBC204		
* Language package: Central European, including: English, Afrikaans, Dutch, French, German, Hungarian, Italian, Polish, Portuguese and Spanish.		
VM-2160 - Scandinavian languages (English, Danish, Finnish, Swedish)		0012161
VM-2160 - Special EU characters languages (English, Greek, Russian, Turkish)		0012162
VM-2160 - Asia I languages (English, Chinese and Traditional Chinese)		0012163
VM-2160 - Asia II languages (English, Japanese and Korean)		0012164
Additional Accessories Available		
Reusable Adult Finger Sensor (SF6500)		0014650
Reusable Adult Silicone Finger Sensor, 1.2m cable length (SC6500VM)		0014750
Reusable Paediatric Silicone Finger Sensor, 1.2m cable length (SCP6500VM)		0014751
Reusable Adult Silicone Finger Sensor, Autoclavable, 1.2m cable length (SCA6500VM)		0014590
Reusable Paediatric Silicone Finger Sensor, Autoclavable, 1.2m cable length (SCAP6500VM)		0014591
Reusable Silicone Wrap Sensor, 1.2m cable length (W6500VM)		0014835
Reusable Ear Sensor, 1.2m cable length (EP6500VM)		0014825
Pulse Oximetry Extension Cable, 1.2m cable length (XT6500)		0014895
Pulse Oximetry Extension Cable, 2.4m cable length (XT6501)		0014896
Silicone Protective Cover		0022160
Armband, for use with VM-2160		0022169
Carrying Case		0022178
Carrying Pouch		0022179
Universal Mounting Kit, V-adapter with female pole-mount thread		0022171
Universal Mounting Clamp, with vertical and horizontal adjustments (CP2345)		0121200
'V' mount pole clamp, horizontal		0121197
'V' mount rail clamp		0121198
'V' mount pole clamp (CP2344)		0121201
'V' mount wall plate (B 647)		0121202

* in accordance with ISO 9919:2005 Standards.

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

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BS EN ISO 9001:2008
ISO 13485:2003

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