veterinary



VM-2500-M Mainstream Unit

VM-2500 CO₂/SpO₂ Monitor

High performance capnography with either mainstream or sidestream measurement for veterinary applications

- Robust and ergonomic design
- Fast warm-up time
- Rapid response time
- Extremely accurate and reliable measurement
- CO₂ and SpO₂ combined
- Displays EtCO₂, FiCO₂, SpO₂, respiration and pulse rate, capnogram and plethysmogram
- Maintenance and calibration-free technology
- Clear and bright, colour OLED display offers superior clarity
- For intubated and non-intubated patients







measurement of intubated or non-intubated patients.

The mainstream unit utilises the advanced IRMATM CO₂ Analyser; to precisely determine gas concentration in the mixture.

design with the latest materials, to create extremely accurate and reliable

The sidestream unit utilises the advanced ISA™ CO₂ Analyser; with a range of sampling solutions to eliminate problems caused by water secretions affecting the reading.

These units incorporate a clear and bright colour display technology, offering unrivalled clarity, in even the most difficult of lighting conditions.

The VM-2500-M and VM-2500-S can be used in a variety of applications, from use in emergency rescue situations, during surgery, intensive care, resuscitation and patient transportation.





The ultra-compact, ergonomic design of the VM-2500 combines outstanding performance and reliability in for either mainstream or sidestream CO₂ and SpO₂ monitoring.

Mainstream Standard Package

- Mainstream Unit
- IRMA™ CO₂ analyser
- IRMA™ Airway adapter (Small and Large)
- Reusable SpO₂ sensor*
- USB data cable
- Power supply (EU and UK Plug)
- 4 x AA batteries
- 1 x Li-Poly battery (CT-2500)
- 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



Key Features of the VM-2500-M

- Mainstream CO₂ measurement with the IRMATM CO₂ Analyser
- Fast warm-up time of < 10 seconds to full specification</p>
- PLUG-IN and MEASURE...™ technology
 no integration procedures or associated expenses required
- No occlusion by water or mucus
- IRMA airway adapter with XTP[™] non-condensing light transmission window
- Small, lightweight and shock-resistant; the IRMA™ CO₂ Analyser weighs less than 30g
- Direct measurement without time delay
- For intubated and non-intubated patients
- Maintenance and calibration-free technology
- Wide range of accessories and SpO₂ sensors available



VM-2500-M Accessories Mainstream Measurement

The **IRMA**TM **CO**₂ **Analyser** sets new standards in CO_2 mainstream monitoring and provides reliable, safe and easy CO_2 monitoring by direct measurement, without time delay.

- Small and lightweight
- PLUG-IN and MEASURE...™ technology
- Shock resistant

The **IRMA**[™] **Airway Adapters** are supplied in two versions; small and large.

- Non-condensing light transmission XTP™ window
- Single patient use





Key Features of the VM-2500-S

- Sidestream CO₂ measurement with the ISA™ CO₂ Analyser and VersaStream technology
- Fast warm-up time of < 10 seconds to full specification</p>
- The VersaStream sampling lines use the latest material technologies to allow the removal of moisture and vapour from the sampled gas
- The VersaStream includes a hydrophobic bacterial filter to protect against water intrusion and cross contamination
- Specially designed for low flow applications;50 ml/min sampling flow rate
- For intubated and non-intubated patients
- Maintenance and calibration-free technology
- Wide range of accessories and SpO₂ sensors available

VM-2500-S Accessories Sidestream Measurement

The VersaStream technology incorporates a unique water separation polymer with an integrated hydrophobic bacterial filter, passing water vapour and condensed water through its surface and evaporating into the surrounding air whilst leaving the carbon dioxide concentration unaffected.

VersaStream sampling lines offer a fully disposable onepiece sampling solution for short-term (≤ 24 hours) or long-term (≤ 72 hours) use. This offers greater flexibility of choice for the end-user.

Additional Sidestream Accessories



Sidestream airway adapter available



Airway adapter and sampling line



Nasal sampling line



Nasal sampling cannula available in Small and Large



Luer Lock connector



Screen Display Options



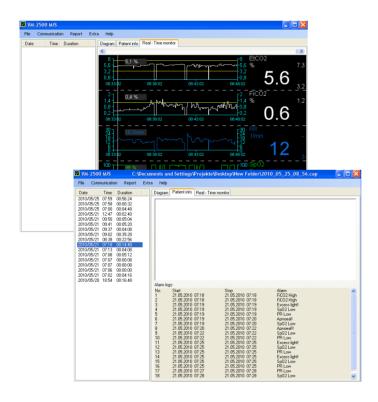




Standard Display Format

Large Digit Display

Trending Digit Display Format



Powerful Capnograph PC Software

With the convenient Capnograph 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 parallel to ongoing measurements. This function is activated by setting the real-time mode of the Capnograph. When this mode is activated, the device transfers the actual measurement values for etCO2, FiCO2, SpO2, Respiration and Pulse Rate measurement values every 4 seconds to the computer via the USB interface.

Part Number: 0025011

Part Number: 0025010



Part Number: 0014895 or 0014896

VM-2500 CO₂/SpO₂ Monitor

Measuring Range	0. 45 V=10/
EtCO ₂ and FiCO ₂ SpO ₃	0 - 15 Vol%, or expressed as kPa or mmHg 0 - 100%
Respiration Rate	0 - 150 breaths/min
Pulse Rate	20 - 300 bpm
Accuracy	
EtCO ₂ and FiCO ₂	± (0.2 vol% + 2% of reading)
	± (0.3% vol % + 4% of reading) inc. interfering gases
SpO ₂	± 2% (70 - 100%)
Respiration Rate	± 1 digit at 60 breaths/min
Pulse Rate	± 1 digit (≤ 100/min) or ± 1% (> 100/min)
Display	
Features	Colour OLED, 262,000 colours, 240 x 320 pixels
Data displayed	End-tidal CO ₂ and inspired CO ₂ in volume %, kPa or mmHg,
	oxygen satūration, respiration rate, pulse rate, capnogram, plethysmogram, bar graph, short term trends
Indicators	Signal strength and signal quality, pulse amplitude, battery status,
Haloatoro	alarm silenced, volume silenced, neonatal mode, time, storage capacity full
Trend Information	
Short Term Trend	15 min/1 hour/6 hours (stored and displayed)
Long Term Trend	Approximately 400 hours (stored)
Environmental Conditions	<u> </u>
Operating temperature	0 - 50°C, 15 - 95% R.H. (non-condensing), 60 - 120 kPa (excl. Li-ion battery)
Storage temperature	-30 - 70°C, 10 - 95% R.H. (non-condensing), 60 - 120 kPa (excl. Li-ion battery)
Regulatory Approvals	
Standards	CE
Ciarida	BS EN 60601-1:2006, BS EN 60601-1-1:2001, BS EN 60601-1-2:2007,
	BS EN 60601-1-8:2004, EN 60529, EN ISO 21647:2004, BS EN ISO 9919:2005
Safety	Class II, Type BF
Assembly	
Construction	IPX1
Dimensions	150 mm (L) x 75 mm (W) x 35 mm (H)
Weight Power Symphy	Approximately 400g (complete device with batteries)
Power Supply Battery Life	Power supply 90 - 260 VAC/6 VDC, 50 - 60 Hz, 2.5 Ah Li-ion battery or 4 x AA alkaline batteries AA batteries: with full functionality VM-2500-M > 6 hours, VM-2500-S > 3 hours
Battory Ello	Li-ion battery: with full functionality VM-2500-M > 7 hours, VM-2500-S > 5 hours
PC interface	USB 2.0
Part Numbers	
VM-2500-M Mainstream Capnograph*	4410530
VM-2500-S Sidestream Capnograph*	4410540
* Language Package: Central European, including	
English, Dutch, French, German, Italian, Spanish,	
(additional language versions available on request	<u>) </u>
Additional Accessories Available	
Multi-site Y Sensor	0015002
Lingual Sensor	0015000
Lingual Clip (Small)	0025010 0025011
Lingual Clip (Medium) Lingual Clip (Large)	0025011
Pulse Oximetry Extension Cable, 1.2m cable leng	
Pulse Oximetry Extension Cable, 2.4m cable leng	
Silicone Protective Cover	4420611
Carrying Case	4420620
Carrying Case with clear front	4420621
Universal Mounting Plate Rev. 2	4420601
'V' mount wall plate 'V' mount pole clamp (Small: 14 - 25mm span)	0121180 0121181
'V' mount pole clamp (Small: 14 - 25mm span)	0121181
'V' mount rail clamp	0121184
'V' mount pole clamp, multi-position	0121197
Universal Mounting Clamp, with vertical and horizon	

NB. When ordering either the VM-2500-M or VM-2500-S please select either Lingual Sensor or Multi-site Y Sensor.

Specification Subject to Change

Mounting Options

For use with VM-2500 range

















Carrying Case for VM-2500





- 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

Distributed by:



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Viamed Limited · 15 Station Road · Cross Hills Keighley · West Yorkshire · BD20 7DT · United Kingdom Tel: +44 (0)1535 634 542 Fax: +44 (0)1535 635 582 Email: info@viamed.co.uk Website: www.viamed.co.uk



Part Number: 0092185

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