capnography



W VIAMED

VM-2500 CO₂/SpO₂ Monitor

High performance capnography with either mainstream or sidestream measurement

- 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

VM-2500-S Sidestream Unit

- Clear and bright, colour display offers superior clarity
- For intubated and non-intubated patients



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 (Adult and Paediatric)
- Reusable SpO₃ sensor*
- USB data cable
- Power supply (UK and EU Plug)
- 4 x AA batteries
- 1 x Li-Poly battery (CT-2500)
- Silicone protective cover
- PC software
- Instruction manual on CD

^{*} Please select from the following sensor styles: Silicone Soft Sensor (Adult or Paediatric), Finger Sensor, Silicone Wrap Sensor or Ear 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[™] noncondensing 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

Mainstream Measurement

The **IRMATM CO₂ 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; Adult/Paediatric and Infant.

- Non-condensing light transmission XTPTM window
- Single patient use





Applications

The VM-2500 with Silicone Finger Sensor is suitable for the following applications:

- Patient transport within and between hospitals
- Rescue services and emergency medicine
- Resuscitation
- General and Paediatric ICU
- Ventilator management and weaning



Nomo Adapter



Sampling Line



Airway Adapter (15 mm)

Sidestream Standard Package

- Sidestream Unit
- Nomo adapter
- Sampling Line
- Sidestream airway adapter (Adult/Paediatric)
- Reusable SpO₃ sensor*
- USB data cable
- Power supply (UK and EU Plug)
- 4 x AA batteries
- 1 x Li-Poly battery (CT-2500)
- Silicone protective cover
- PC software
- Instruction manual on CD
- * Please select from the following sensor styles: Silicone Soft Sensor (Adult or Paediatric), Finger Sensor, Silicone Wrap Sensor or Ear Sensor, and indicate at the time of ordering.



Key Features of the VM-2500-S

- Sidestream CO₂ measurement with the ISA™ CO₂ Analyser and Nomo technology
- Fast warm-up time of < 10 seconds to full specification</p>
- The Nomo Adapter uses Nomo technology which removes water and vapour from the sampled gas
- The Nomo Adapter 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

Sidestream Measurement

The VM-2500-S offers two sampling solutions; a reusable Nomo adapter used in conjunction with single patient use sampling lines, or VersaStream; a complete one-piece single patient use solution.

Both Nomo adapter and VersaStream technologies incorporate 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.

The Nomo adapter allows for up to two weeks of continuous monitoring with high moisture content breathing gases when used with single patient use sampling lines; VersaStream sampling lines offer a fully disposable one-piece 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 in Adult/Paediatric



Airway adapter and sampling line



Nasal sampling line



Nasal sampling cannula available in Adult and Paediatric

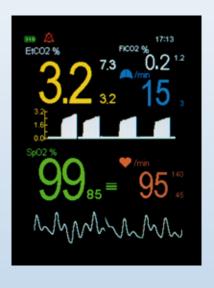


Nasal/oral sampling cannula



15mm airway adapters range available, I.D 2.0mm to

Screen Display Options



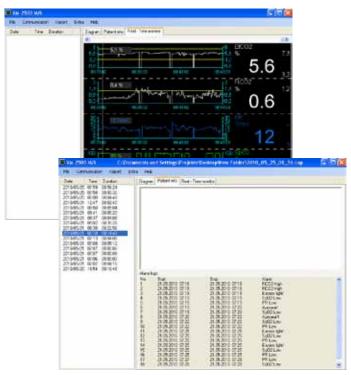




Standard Display Format

Large Digit Display

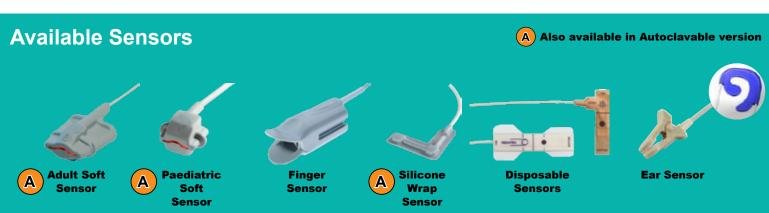
Trending Digit Display Format



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 second to the computer via the USB interface.



VM-2500 CO₂/SpO₂ Monitor

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Measuring Range	
EtCO ₂ and FiCO ₂	0 - 15 Vol%, or expressed as kPa or mmHg
SpO ₂	0 - 100%
Respiration Rate Pulse Rate	0 - 150 breaths/min
	20 - 300 bpm
Accuracy	. (O O v = 10/ 1 00/ = 5 = = = district
EtCO ₂ and FiCO ₂	\pm (0.2 vol% + 2% of reading) \pm (0.3% vol % + 4% of reading) inc. interfering gases
SpO ₂	$\pm 2\%$ (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 saturation, respiration rate, pulse rate, capnogram,
Indicators	plethysmogram, bar graph, short term trends Signal strength and signal quality, pulse amplitude, battery status,
Hulcators	alarm silenced, volume silenced, neonatal mode, time, storage capacity full
Trend Information	alarm ononoed, rolamo ononoed, mornata mode, ame, eterage eapasity iaii
Short Term Trend	15 min/1 hour/6 hours (stored and displayed)
Long Term Trend	Approximately 400 hours (stored)
Environmental Conditions	
Operating temperature	0 - 50°C, 15 - 95% R.H. (non-condensing), 60 - 120 kPa (excl. Li-Poly battery)
Storage temperature	-30 - 70°C, 10 - 95% R.H. (non-condensing), 60 - 120 kPa (excl. Li-Poly battery)
Regulatory Approvals	
Standards	CE Class Ilb in accordance with MDD 93/42/EEC
	BS EN 60601-1:2006, BS EN 60601-1-1:2001, BS EN 60601-1-2:2007,
Cofoh	BS EN 60601-1-8:2004, EN 60529, EN ISO 21647:2004, BS EN ISO 9919:2005
Safety	Class II, Type BF
Assembly	IDV4
Construction Dimensions	IPX1 150 mm (L) x 75 mm (W) x 35 mm (H)
Weight	Approximately 400g (complete device with batteries)
	wer supply 90 - 260 VAC/6 VDC, 50 - 60 Hz, 2.5 Ah Li-Poly battery or 4 x AA alkaline batteries
Battery Life	AA batteries: with full functionality VM-2500-M > 6 hours, VM-2500-S > 3 hours
	Li-Poly 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* EAN-13 (GTIN-13) Barcode: 5051826002711	4410500
VM-2500-S Sidestream Capnograph*	4410520
EAN-13 (GTIN-13) Barcode: 5051826002728	
* Language Package: Central European, including: English, Dutch, French, German, Italian, Spanish, Swe	adich and Duccian
(additional language versions available on request)	รับเอก สกัน เกินออกสก
VM-2500-M - Asia Languages (English, Chinese and	
VM-2500-W - Asia Languages (English, Chinese and VM-2500-S - Asia Languages (English) (Engl	
Additional Accessories Available	V/T0F00\
Pulse Oximetry Extension Cable, 1.2m cable length (Pulse Oximetry Extension Cable, 2.4m cable length (
Silicone Protective Cover	0022160
Carrying Case	4420620
Carrying Case with clear front	4420621
Protective Rubber Boot	4420615
Universal Mounting Plate Rev. 1	4420600
Universal Mounting Plate Rev. 2	4420601
'V' mount wall plate 'V' mount pole clamp (Small: 14 - 25mm span)	0121180 0121181
'V' mount pole clamp (Smail: 14 - 25mm span)	0121182
'V' mount rail clamp	0121184
'V' mount pole clamp, multi-position	0121197
Universal Mounting Clamp, with vertical and horizontal	
IRMA Holder	4420613 4420614
ISA Medirail Holder Silicone Cover for use with IRMA	4420614 4420612
- Ollicone Cover for use with IntiviA	4420012

Mounting **Options**

For use with VM-2500 range

























Carrying Cases 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



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