

VSM - 3000

Vital Sign Monitor



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Analytical Technologies Limited

An ISO 9001 Certified Company

►► Introduction

The VSM 3000 vital signs monitor is intended to be used in special procedure labs and other areas of a hospital or clinic where patient monitoring systems are needed. The standard parameters includes 5/3 leads electrocardiography(ECG), non-invasive blood pressure(NIBP), pulse oximetry (SpO2), Respiration Rate(RR), temperature(TEMP), optional parameter include ETCO2. The VSM 3000 is available in multiple configurations, such as SpO2+NIBP, SpO2+ECG, ECG+NIBP, SpO2+ETCO2, SpO2+NIBP+TEMP etc.

►► Features

- 7" colored and bright, high definition (800 x 480) TFT LCD screen.
- Parameters: spO2, ECG, Heart Rate, NIBP, TEMP*2, RESP(Optional Sidestream ETCO2).
- Suitable for adult, pediatric and neonatal patients.
- 72 hours graphic and tabular trends of all parameters.
- 32 seconds full-disclosure waveform review.
- 120 hour NIBP and SpO2 measurement data can be stored and recalled.
- Built-in large capacity (4400mAh) rechargeable Lithium battery.
- With Ethernet connectivity, support to connect to IPMS8600 Patient Management System.
- Network Host interface.



Ergonomically designed handle to fit your hand comfortably.



High-elastic silicone keys, non-toxic and tasteless.



No fan design to keep the whole system working quietly.

►► Specifications

Enclosure

Weight	2.05kg(4.52 lb), including 1 battery
Dimensions	324mmWx 129mmH x 183mmD (12.76in. W x 5.08in. H x 7.20in. D)
Display	
Screen size	177.8mm(7in.), measured diagonally
Screen type	TFT LCD, white LED backlight, viewing cone of 60°andoptimalviewing distance of 1.5 meter
Resolution	800 x 480 pixels
Alarms	
Categories	Patient status and system status
Priorities	Low, medium, and high
Notification	Audible and visual
Setting	Full storage, low battery and sensor off
Alarm volume level	45 to 85decibels
Alarm system delay	< 10 seconds

SpO2

Aturation range	1% to 100%
Accuracy	70-100% ($\pm 2\%$), <70% undefined
Resolution	1%
Display sweep speed	10.00 mm/sec

Pulse Rate

Aturation range	25bpm to250bpm
Accuracy	$\pm 2\text{bpm}/\pm 2\%$ take maximum
Resolution	1bpm

ECG

Aturation range	25bpm to250bpm
Accuracy	$\pm 2\text{bpm}/\pm 2\%$ take maximum
Resolution	1bpm
Leads	I,II,III,V,aVR,aVL or aVL
Display gain	X1/4,X1/2,X1,X2,X4
Display sweep speed	6.25, 12.5, 25, 50mm/sec

NIBP

Method	Oscillometric
Aturation Range	0-300mmHg
Accuracy	Based on ANSI/AAMI SPI0:1992 and 2002 Standards
Measurement Time	30-50s typical, 180s maximum
30-50s typical, 180s maximum	2, 3, 5, 10, 30 min, or 1, 2h

RESP

Aturation range	0-130rpm
Accuracy	±1pm
Resolution	1rpm

TEMP

Aturation range	0-50°C
Accuracy	±0.2°C
Resolution	0.1°C

ETCO2 (Optional)

Mode	Sidestream
Aturation Range	0-150mmHg
Accuracy	0-40mmHg ±2mmHg 41-150mmHg ±10% of reading
Resolution	0.1mmHg
Flow rate	50ml/min ±10ml/min

Electrical

Battery	Four new lithium batteries with 4,400mAh will typically provide 4.5 hours of monitoring with no external communication, no audible alarm sound, and at an ambient temperature of 25°C
Type	Lithium Batteries, 4,400mAh, DC 11.1V
Voltage	AC 100-240V, 50-60Hz, SOVA

Environmental

	Transport and Storage	Operating Conditions
Temperature	-40°C to 75°C (-40°F to 167°F)	0°C to 50°C (32°F to 122°F)
Altitude	-500 to 5,000m (-1,640 to 16,404 ft.)	
Relative humidity	15% to 95% noncondensing	

Trend

	Tabular
Memory	Saves a total of 120hours of data events; saves date and time, alarm conditions, measurements
Tabular format	One table for all parameters

Configuration

Standard	SpO2+ECG+NIBP+RESP+ TEMP
Optional	SpO2, SpO2+NIBP, SpO2+NIBP+ECG, SpO2+NIBP+ TEMP SpO2+ECG+NIBP+RESP+ TEMP+EtcO2, etc. 1..Lithium Battery, Trolley, Brace, IPMS8600 Central monitoring system

►► ACCESSORIES



Standard



Disposable Sensors



IPMS86000



Trolley



Sidestream ETCO2 Module

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products & Technologies



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Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Partical
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical
Foundation

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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



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