



Your cardio-respiratory partner



Data you can rely on.
People you can trust.

Vitalograph Products & Services Guide

Vitalograph is a world leading provider of outstanding quality cardio-respiratory diagnostic devices, clinical trial services, audiometers and medical equipment servicing. With a pioneering heritage of excellence spanning half a century Vitalograph continues to make valuable contributions to effective medical care and enhanced quality of life.

Vitalograph has been a pioneer since our earliest days when we first made it possible to take spirometry out of laboratories and bring it into GPs surgeries. Our continuous investment in product development reflects our innovative spirit and demonstrates our commitment to supporting respiratory professionals and those they care for.



Managing Director, Vitalograph Ltd.

 **Vitalograph®**
Your cardio-respiratory partner



	Page
DIAGNOSTIC MEDICAL WORKSTATION SOFTWARE	1
➤ Vitalograph Spirotrac	2
➤ Vitalograph COMPACT™ Expert	3
HIGH QUALITY SPIROMETERS	4
➤ Vitalograph Fleisch Flow Technology	5
➤ Vitalograph Pneumotrac with Spirotrac Software	6
➤ Vitalograph micro	7
➤ Vitalograph In2itive	8
➤ Vitalograph Alpha	9
➤ Vitalograph Alpha Touch	10
SPIROMETER SELECTION GUIDE	11 & 12
ADDITIONAL TEST MODULES: RESTING 12-LEAD ECG & AUDIOMETRY	13
➤ Vitalograph Spirotrac PC Based ECG	14
➤ Vitalograph PC Based Screening & Diagnostic Audiometers	15
➤ Audiometer Selection Guide	16
4000 SERIES RESPIRATORY MONITORS/SCREENERS	17
➤ Vitalograph copd-6	18
➤ Vitalograph asma-1	19
➤ Vitalograph lung monitor	20
➤ Vitalograph 4000 Series Selection Guide	21
DATA EXCHANGE AND SOFTWARE DEVELOPERS KITS	22
➤ Data Exchange and Software Developers Kits	23
PEAK FLOW METERS	24
➤ Vitalograph Peak Flow Meter asmaPLAN	25
➤ Vitalograph myPEF	26
SYRINGES & CONSUMABLES	27
➤ Syringes & SafeTway Mouthpieces	28
➤ BVF™ Bacterial/Viral Filters	29
➤ Pulmonary Function Test Kit Examples	30
INHALER TRAINING	31
➤ Vitalograph AIM	32
CLINICAL TRIALS SERVICES	33
➤ Cardio-respiratory clinical trials services	34
SERVICE & SUPPORT	35
➤ Vitalograph Technical Support	36

Diagnostic Medical Workstation Software

Vitalograph Spirotrac

Diagnostic medical workstation software

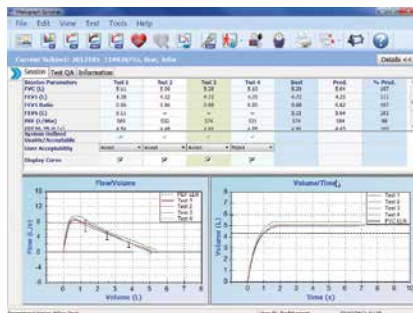
Spirotrac® workstation software is capable of integrating high quality spirometry, pulse oximetry, 12-lead ECG, COPD assessment, challenge testing, audiometry and more in a single, easy to use and flexible software solution



Spirotrac provides:

- Intuitive workflow design for fast and accurate testing
- High quality graphical and trend displays, comprehensive data tables and test quality measures.
- Ability to work with most of the market leading Vitalograph range of PC based, handheld and desktop spirometers
- Ability to add additional test parameters over time
- A communication gateway for bi-directional data exchange with electronic medical record (EMR) systems
- Ability to network multiple installations together

Order Number: 70600



Diagnostic medical workstation software

Vitalograph COMPACT™ Expert

Diagnostic medical workstation

The Vitalograph COMPACT™ Expert is a medical workstation running Spirotrac® software. The COMPACT is capable of integrating high quality spirometry, pulse oximetry, 12-lead ECG, COPD assessment, challenge testing, audiometry and more in a unique stand-alone approved medical device.

COMPACT provides:

- Integrated market leading Spirotrac software
- Ability to purchase single or multiple test parameter versions up front
- Ability to add additional parameters over time
- Ultimate data security
- Bi-directional data exchange with electronic medical record (EMR) systems
- Ability to network multiple COMPACT devices together



Order Number: 67800 (COMPACT Expert with Spirometry only)

Diagnostic medical workstation

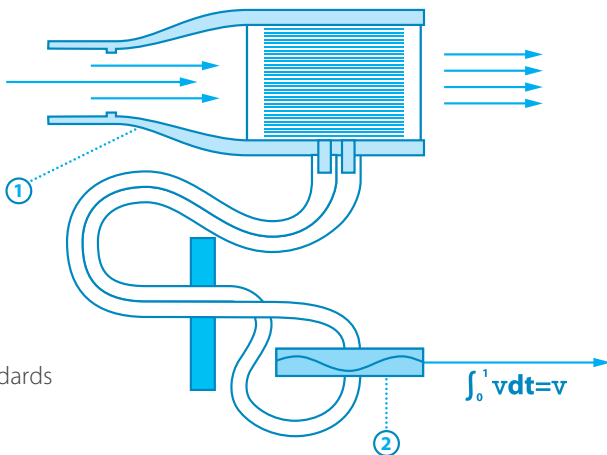
High Quality Spirometers

Vitalograph Fleisch Flow Technology

The measuring technology used in Vitalograph spirometers is the Fleisch Pneumotachograph which provides accurate, robust, linear and reliable flow measurements. The extremely low flow impedance is well below the requirements of the current spirometer standard ISO26782:2009.

Fleisch Flow Measuring Technology Features:

- Accurate
- Easy to use
- Robust
- Reliable
- Low back pressure
- Linear flows ensure accuracy at very low flow rates
- Easy to clean
- Simple accuracy checks
- Meets ISO 26782:2009 and ATS/ERS:2005 spirometry standards



High quality spirometers

Vitalograph Pneumotrac with Spirotrac Software

Highly accurate PC based spirometry solution

Combines the power of your Windows® PC with Vitalograph measuring technology for early detection of respiratory disease and integration with your organisation network.

- Accurate, robust and linear Fleisch pneumotachograph
- Intuitive user interface with workflow orientated presentation
- Automatic FEV₁ trend chart of actual and normal range data as subject is selected
- Open session, f/v and v/t curves, all test data and test quality in one view
- Maximum voluntary ventilation (MVV)
- Automatic storage of all test data and events, including calibration log
- Built-in test quality checks
- Choice of patient incentives
- Fully scalable database capacity using powerful Microsoft® SQL server technology
- Network ready



Order Number: 77700

Spirometry software

Vitalograph In2itive

High quality spirometry

Vitalograph In2itive™ combines the benefits of full spirometry, data integration and portability - in a small lightweight handheld spirometer.

- Features Fleisch flow measuring technology and simple icon driven menu
- Subject data from Spirotrac can be downloaded automatically to the In2itive device, up to 10,000 subjects – saving time and eliminating data entry errors
- Session can be automatically transferred to, and synchronized with, Spirotrac
- Colour touch screen
- Battery life for a full day of off-site testing
- Over 50 test parameters
- Choice of child incentives with sound effects
- Remote flowhead option enables the subject to view incentives while performing the test
- Print via your PC (Spirotrac or Vitalograph Reports)



**Order Number: 79000 In2itive & Spirotrac Software,
79400 In2itive and Vitalograph Reports software**

High quality spirometers

Vitalograph ALPHA

Effective spirometry – pure and simple

The Vitalograph ALPHA™ is a dedicated all in one desktop spirometer featuring the proven Vitalograph Fleisch pneumotachograph to provide unparalleled accuracy and outstanding performance.

- Measures VC, FVC, FEV₁, FEV₁ Ratio, PEF, FEF_{25-75%} and more
- On-screen visualisation of volume/time and flow/volume curves
- Links to PC, via USB, with Vitalograph Reports Software
- Saves multiple pre-tests for subsequent post-testing
- Compact flash card backup/storage
- Information presented in easy to read format
- Fast, silent printer that prints up to 140 tests per roll
- Battery and mains power with integrated battery for off site testing
- Real time clock
- Autoclaveable flowhead
- Facility for user accuracy checks



Order Number: 65000

High quality spirometers

Vitalograph ALPHA Touch

For precision spirometry, portability, printing and PC connectivity

Simple touch screen spirometry with in-built printing and automatic PC connectivity.





- Fleisch pneumotachograph, the best performing flow measuring technology in the world
- Automatic two-way synchronisation of patient data and test sessions between ALPHA Touch and Spirotrac
- Simple icon driven menu with large, high resolution colour touch-screen
- Storage capacity for 10,000 subjects
- Over 50 test parameters
- % predicted or SDS scores comparison
- F/V and V/T curves viewable in real time
- Pre-post bronchodilator comparison
- Single or multi-breath
- Hours of battery life
- Choice of exciting incentives







Order Number: 65500 ALPHA Touch
65600 ALPHA Touch & Spirotrac

High quality spirometers

Spirometer Selection Guide

	PC Based	Handheld		
				
	Pneumotrac with Spirotrac®	micro	In2itive	Vitalograph
Tests:				
VC	●	●	●	●
FVC	●	●	●	●
Post BD	●	●	●	●
MVV	●			
Challenge Test	●			
6MWT/COPD Assess	●			
Total Parameters Available	60	8(from 48)	50+	
Quality Measures & Incentives:				
Predicted Values	●	●	●	●
Interpretation	●		●	●
Quality Prompts	●	●	●	●
Incentives	●		●	
Data Exchange & Printing:				
In-built Printer				
PDF Reports (S = Spirotrac, V = Vitalograph Reports)	● S	● V	● V	
Bi-directional Data Exchange with EMRs	●			
General Features:				
Touch Screen		●	●	●
Colour Display	●	●	●	●
Internal Battery		●	●	●
Full Database	●		●	
Add-On Test Module Options:				
Pulse Oximetry	●			
Resting 12 lead ECG	●			
Audiometry	●			

	Desktop			Desktop Medical Workstation
				
In2itive with Spirotrac®	Alpha	Alpha Touch	Alpha Touch with Spirotrac®	Compact
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•			•	•
•			•	•
60	8+	50+	60	60
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•		•	•	•
• S/V	• V	• V	• S/V	• S
•			•	•
•	•	•	•	•
•	•	•	•	•
•		•	•	•
•			•	•
•			•	•
•			•	•

Additional Test Modules:

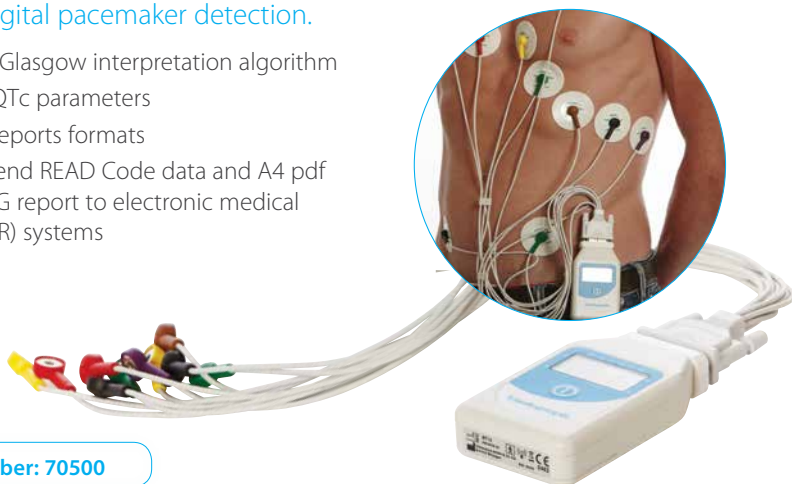
- **Resting 12-lead ECG**
- **Audiometry**

Vitalograph Spirotrac PC Based ECG

Power and sophistication made simple

The Vitalograph ECG device software is elegantly integrated into Spirotrac allowing for the capture of resting 12-lead ECGs. Fast, safe, wireless transmission allows ECG data to be captured, displayed, stored, analysed and interpreted with minimal lead artefact from movement or electrical sources. ECG tracings are captured and displayed in real-time and data can be saved for recall, reporting and printing. The built-in display also provides information on electrode contact problems, heart rate, battery status, communication status and digital pacemaker detection.

- Integrated Glasgow interpretation algorithm
- Choice of QTc parameters
- Choice of reports formats
- Ability to send READ Code data and A4 pdf 12-lead ECG report to electronic medical record (EMR) systems



Order Number: 70500

ECG hardware and software

PC Based Screening & Diagnostic Audiometers

The Vitalograph range of screening and diagnostic audiometers offers comprehensive and easy to use audiometry testing options for occupational health, primary care and audiology professionals.

The range offers:

- On-screen audiometry via user-friendly Spirotrac Software
- Extensive range of tests including Ear Protector Testing
- Fast and easy PC-connection via USB (plug & play)
- Extensive database and storage capacity
- PDF report generation
- Data exchange with electronic medical record (EMR) systems



PC Connectivity & USB Powered



Bone Conductor

**Order Numbers: 70409 Screening Audiometer - Standard,
70410 Screening Audiometer - Advanced, 70411 Diagnostic Audiometer**

Audiometer Selection Guide

Audiometer Range	Screening Audiometers		Diagnostic Audiometer
	70409	70410	70411
Part No.			
Tests			
Manual Test	•	•	•
20dB Auto Test	•	•	•
20dB Random Auto Test		•	•
xxdB Auto Test		•	•
xxdB Random Auto Test		•	•
Hughson Westlake Test		•	•
Ear Protector Test		•	•
MCL & UCL Threshold Tests			•
Bone Conduction Tests			•
SISI Test			•
Weber Test			•
Masking NB			•
Decrease 10dB Random Auto Test			•
Decrease 5dB Random Auto Test			•

Respiratory Monitors

Vitalograph copd-6

COPD Screeners (Standard/USB/Bluetooth)

The Vitalograph copd-6™ is an accurate and cost effective 'case selection' or 'screening' device that identifies potential cases of COPD.

- For the early detection of COPD - quickly, simply and accurately
- Identifies those at risk of COPD at the pre-symptomatic stage
- Screens out those who do not have COPD
- Monitors COPD patients using their 'number', the obstructive index – FEV₁ as a percent of predicted
- Displays FEV₁, FEV₆, ratio and % predicted, obstructive index, COPD classification and lung age
- Built-in quality of blow indicator on a large, easy to read display
- Easy to clean flowhead
- Can be used with hygienic SafeTway mouthpieces or a BVF
- Lung age meter also available
- USB and Bluetooth versions available

Order Number: 40200 Standard

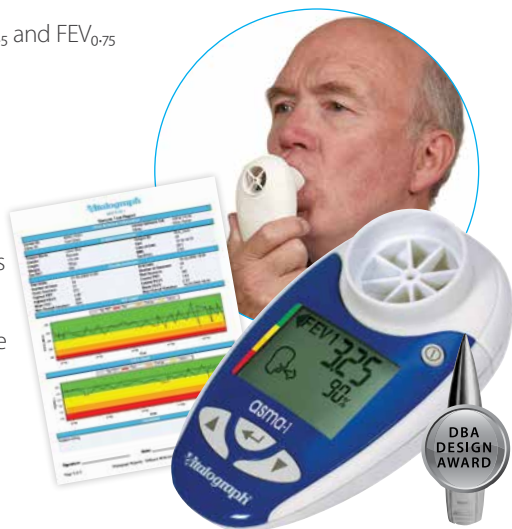


Vitalograph asma-1

Asthma Monitors (Child/Standard/USB/Bluetooth)

The Vitalograph asma-1™ is an easy to use, yet sophisticated, electronic asthma monitor that makes the monitoring of asthma simpler and more accurate than ever before. By measuring FEV₁, as well as peak flow, the asma-1 gives a clear picture of lung health. The asma-1 stores up to 600 test sessions and automatically assesses test quality.

- Measures FEV₁ and PEF
- Child version measures PEF, FEV₁, FEV_{0.5} and FEV_{0.75}
- Simple to use
- Large, easy to read display
- No need for record cards
- Quality of blow indicator
- Suitable for multi-subject use with standard size SafeTway mouthpieces
- Uses long life AAA batteries
- USB and Bluetooth versions available



Order Number: 40000 Standard

Monitoring asthmatics

Vitalograph lung monitor

Home Lung Function Monitors (Standard/USB/Bluetooth)

This easy to use home monitoring device is designed to record key lung function parameters for those with respiratory conditions including cystic fibrosis and transplant patients.

- Suitable for multi-subject use in clinic with SafeTWay mouthpieces
- Automatically stores best values in a test session
- Variants with communications capability available
- Simple to use with a large, easy to read display
- Electronic record – no need for record cards
- Stores 200 test sessions
- Measures FEV_1 , FEV_6 and the ratio
- Displays % of personal best FEV_1
- Quality of blow indicator
- Easy to clean flowhead
- Uses long life AAA batteries
- Meets ATS/ERS:2005 Spirometry Guidelines
- USB and Bluetooth versions available

Order Number: 40550 Standard



Monitoring cystic fibrosis and transplant patients

Vitalograph 4000 Series Selection Guide

	Variant	PEF	FEV ₁	FEV ₆	FEV ₁ Ratio	FEF 25-75%	FEV 0.5/0.75	Lung Age	Memory	Personal Best	GOLD	PDF Reports	SpV Reports
	asma-1™ standard	●	●	○	○	○	○	○	600	●	○	○	○
	asma-1 child version	●	●	○	○	○	●	○	600	●	○	○	○
	asma-1 usb/bt	●	●	○	○	○	○	○	600	●	○	●	●
	copd-6™ standard	○	●	●	●	○	○	●	○	○	●	○	○
	copd-6 usb/bt	○	●	●	●	○	○	●	○	○	●	●	○
	lung monitor standard	○	●	●	●	○	○	○	200	●	○	○	○
	lung monitor usb/bt	○	●	●	●	●	○	○	200	●	○	●	○
	lung age standard	○	●	○	○	○	○	●	○	○	○	○	○
	lung monitor BT SMART	●	●	●	●	●	●	○	200	●	○	●	○

● Available / ○ Not Available

usb - USB

bt - Bluetooth

Respiratory Monitors

Data Exchange and Software Developers' Kits

Data Exchange and Software Developers' Kits

Vitalograph offer a number of Software Developers' Kits that provide developers and data integration specialists with the tools they need to achieve data exchange between Vitalograph devices and software and mobile applications or Electronic Medical Record Systems.

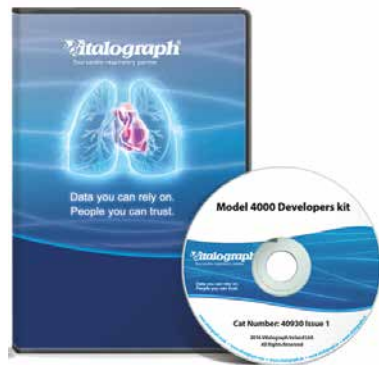
Developers' Kits are supplied in the form of a CD and contain documents that detail full Application Programme Interface (API) and where relevant, (for 4000 and micro Bluetooth devices), a Bluetooth dongle. Access to Vitalograph's R&D Technical Support Helpline is also included.

Software Developers' Kits Available:

Part No. 40426 4000 Series Software Developers' Kit

Part No. 63520 micro Software Developers' Kit

Part No. 70454 Spirotrac Software Developers' Kit



Software Developers' Kits

Peak Flow Meters

Vitalograph Peak Flow Meter asmaPLAN

The simple, accurate way to monitor asthma

- Accurate
- Compact, lightweight and portable
- Robust and hard-wearing
- Features comfortable integral mouthpiece
- Easily read scale marker labels
- Conforms to peak flow standards including ISO 23747:2015
- Suitable for adults and children
- Suitable for multi-subject use with SafeTway mouthpieces



Order Number: 43602

Monitoring asthmatics

Vitalograph myPEF

Web enabled peak flow meter

Vitalograph Peak Flow Meters conform to all peak flow standards including ISO 23747:2015

- Web enabled asthma monitoring
- Secure, personal, online PEF record
- Pocket sized
- Robust and accurate
- Integral protective cover
- World's thinnest PFM
- Longest scale
- Patented dual zone markers
- Suitable for adults and children



Order Number: 43950

Monitoring asthmatics

Syringes and Consumables

Syringes & SafeTway Mouthpieces

Vitalograph's wide range of spirometry consumables, which are designed to fit most respiratory devices, offer exceptional protection against cross infection, support effective spirometry and represent great value for money.

Vitalograph Precision Syringe

- 3-L Precision Syringe

Order Number: 36020

- 1-L Precision Syringe

Order Number: 20408



SafeTway® Mouthpieces

- SafeTway mouthpieces (200)

Order Number: 20242

- SafeTway mouthpieces mini (50)

Order Number: 20980

- Disposable Inhaler SafeTway (180)

Order Number: 29770








- Eco SafeTway Mouthpieces (200)

Order Number: 20929



BVF™ Bacterial/Viral Filters

Single use filters for effective filtration of bacteria, viruses and expectorated matter. Suitable for inspiratory and expiratory spirometry testing.

Order no.	Colour:	To fit spirometers from:
28350	Blue (Small Mouthpiece) 	Most office spirometers including Vitalograph, MIR and Micro Medical
28362	White 	Most Lab PF Equipment, including Sensormedics, PK Morgan, Ganshorn (new)
28363	Clear 	Jaeger / VIASYS / Carefusion / Vyaire PF Lab Equipment
28365	Light Blue 	MedGraphics PF Lab Equipment
28368	Green 	Ferraris/nSpire/PDS/KoKo
28383	White Translucent 	Chest, Fukuda, Minato
28401	Translucent 	Medisoft PFT equipment and most office spirometers including Vitalograph, Cosmed, MIR, Carefusion (Micro Medical)

Pulmonary Function Test Kits

A wide range of PFT Kits are available, with choice of BVFs, Bite-on mouthpieces and nose clips.

For details please contact Vitalograph

Bite-On Mouthpieces

Fits all BVF filters except blue Cat No. 28350

- Rear Bite-on Mouthpiece Silicone (50)

Order Number: 20310

- Front Bite-on Mouthpiece Silicone (50)

Order Number: 20392

- Disposable Oval Mouthpiece (50)

Order Number: 20989

Disposable Noseclips

- Disposable Noseclips (200)

Order Number: 20303



Monitoring asthmatics

Inhaler Trainer

Vitalograph AIM

Effective inhaler training on dry powder and metered dose inhalers

The unique Vitalograph AIM™ (Aerosol Inhalation Monitor) is designed to assist in training subjects to use their inhaler correctly. Mastery of the correct technique will support more accurate drug delivery and good patient compliance, resulting in better disease management and fewer visits to medical professionals.

- Validates effective use of an inhaler
- Objective identification of proper use of the inhaler device
- Identifies correct choice of inhaler device type
- Identifies and quantifies poor inhaler technique
- Assists in training patients to use their inhaler correctly
- Provides clear feedback and instructions to subject and trainer
- Easy to use, hygienic and low cost
- Can optionally be used with a spacer
- Pharma specific variants available (e.g. Astra Zeneca, Boehringer-Ingelheim, GSK, Novartis)



Order Number: 45710

Clinical Trials Services

Cardio-Respiratory Clinical Trials Services

As a global provider of cardio-respiratory related services Vitalograph has undertaken multi-centre clinical trials for many of the world's foremost pharmaceutical companies, biotechs and CROs. With a 50 year heritage of service in the respiratory field and through our dedicated and motivated team of professionals, we bring the same commitment to excellence to all our clinical trials services. Our wide range of services includes:

- Protocol design consultation
- Expert review of centralized cardiac and respiratory data
- Centralized global data services
- e-Diaries, spirometry, ECG, FeNO, pulse oximetry and more
- Project, logistics and data management
- Customized software, devices and manuals to match your protocol
- Custom reports and study materials accessible via web portals
- Onsite and remote training of monitors and investigators
- Global 24/7 technical support

Contact Vitalograph for further details on our extensive range of clinical trial solutions



Clinical Trials Services

Service and Support

Vitalograph UK Technical Support

In the pressurised environment of a busy healthcare establishment, equipment breakdowns can be stressful and expensive. Enjoy the peace of mind of knowing that your medical devices have been expertly maintained by Vitalograph, a world leader with over 50 years experience in the manufacture and servicing of medical devices.

Our range of equipment technical support services is designed to give you complete confidence in the accuracy, reliability and traceability of your medical devices, and includes:

- On-site servicing & repair
- Collect and deliver servicing & repair
- Test and certification of other medical devices
- Extended warranties
- Technical and software support helplines
- Vitalograph UK Service Club benefits package



Vitalograph Technical Support



Your cardio-respiratory partner

Vitalograph Ltd, UK
Maids Moreton, Buckingham
MK18 1SW
England
Tel: (01280) 827110
Fax: (01280) 823302
E-mail: sales@vitalograph.co.uk
www.vitalograph.co.uk

Vitalograph Inc
13310 West 99th Street
Lenexa, Kansas, 66215
USA
Toll Free: 800 255 6626
Tel: (913) 730 3200
Fax: (913) 730 3232
E-mail: vitcs@vitalograph.com
www.vitalograph.com

Vitalograph Ltd, International
Maids Moreton, Buckingham
MK18 1SW
England
Tel: +44 1280 827120
Fax: +44 1280 823302
E-mail: sales@vitalograph.co.uk
www.vitalograph.eu

Vitalograph (Ireland) Ltd
Gort Road Business Park
Ennis, Co Clare
Ireland
V95 HFT4
Tel: +353 65 6864100
Fax: +353 65 6829289
E-mail: sales@vitalograph.ie
www.vitalograph.ie

Vitalograph GmbH
Rellinger Straße 64a
D-20257 Hamburg
Germany
Tel: +49 40 547391-0
Fax: +49 40 547391-40
E-mail: info@vitalograph.de
www.vitalograph.de

Vitalograph Ltd, Hong Kong/China
Unit 2001, Floor 20, Block A
New Trade Plaza
6 On Ping Street, Shatin
Hong Kong
Tel: +852 2117 2678
Fax: +852 2117 2679
E-mail: sales@vitalograph.cn
www.vitalograph.cn

www.vitalograph.co.uk

Vitalograph®, asma-1™, copd-6™, Pneumotrac™, Spirotrac™, In2itive™, micro™, ALPHA™, COMPACT™, AIM™, SafeTway® and BVF™ are trademarks or registered trademarks of Vitalograph Ltd. Microsoft® and Windows® are registered trademarks of Microsoft Corporation. Bluetooth® is a trademark of Bluetooth SIG.

PRINT REF: 14629_7

CE
0086