

# VITALOGRAPH 4000 SERIES

Respiratory Monitors & Screening Devices



**Vitalograph**<sup>®</sup>  
Your cardio-respiratory partner

Data you can rely on. People you can trust.

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Respiratory Monitors & Screening Devices

The Vitalograph® 4000 series of respiratory monitors are ideal for general screening of chronic respiratory disease within clinical trials and occupational health environments.

The USB and Bluetooth® models make the monitoring of those with chronic respiratory conditions such as asthma, cystic fibrosis, COPD and post transplant patients easier than ever by providing low cost, highly accurate monitoring within the home.



## Vitalograph lung monitor

Effective home monitoring of key lung function parameters for those with respiratory conditions including COPD, cystic fibrosis and for post transplant patients.

- Displays include FEV<sub>1</sub>, FEV<sub>6</sub> and ratio
- Displays % of personal best FEV<sub>1</sub>
- Colour zones indicate the personal best FEV<sub>1</sub>
- Stores 200 test sessions
- Automatically assesses test quality
- Quality of blow indicator



## Vitalograph asma-1 & asma-1 Child

Simple, effective asthma monitoring. The asma-1™ is a robust and low cost solution for the home monitoring of PEF and/or FEV<sub>1</sub>.

- Automatic assessment of test quality
- FEV<sub>1</sub> less effort dependent
- Child versions: PEF, FEV<sub>1</sub>, FEV<sub>0.5</sub> & FEV<sub>0.75</sub>
- asma-1 measures % of personal best for PEF & FEV<sub>1</sub>
- Stores 600 test sessions



## Vitalograph copd-6

The Vitalograph copd-6™ identifies those at risk of COPD at the pre-symptomatic stage to allow early medical intervention and facilitate better clinical outcomes.

- Monitors COPD patients using their 'number', the obstructive index – FEV<sub>1</sub> as a percent of predicted
- Displays FEV<sub>1</sub>, FEV<sub>6</sub>, ratio and % predicted, obstructive index, COPD classification and lung age
- Built-in quality of blow indicator
- Displays the GOLD COPD classification (stage I – IV) to help recognise the need for a change in patient management plan

A screenshot of the Vitalograph Reports Software interface, displaying a table with multiple columns of data, including patient information and test results.

Vitalograph Reports Software supplied with USB and Bluetooth models

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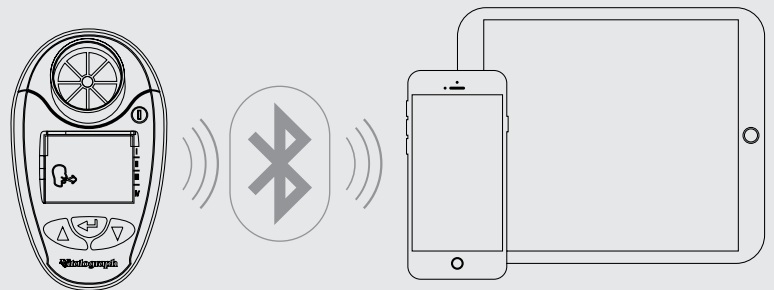
# VITALOGRAPH 4000 SERIES

Telemedicine Solutions

Vitalograph has simple, effective and low cost solutions available for those engaged in home based respiratory studies or where home based monitoring is required for specific chronic lung conditions.

Extensive experience in supporting home monitoring programmes for asthma, COPD, cystic fibrosis and post transplant patients make Vitalograph the ideal telemedicine partner.

Bluetooth and USB models available for Apple IOS, Android, Qualcomm and Windows Applications.



## Vitalograph lung monitor - for application developers

**Latest Bluetooth SMART technology**  
Enabling connectivity with Apple IOS, Android and Windows based platforms

**Widest choice of display parameters**

PEF, FEV<sub>1</sub>, FEV<sub>6</sub>, FEV<sub>1</sub>/FEV<sub>6</sub>, FEF<sub>25-75</sub>

**Extensive choice of transmittable parameters**

PEF, Best PEF, PEF Personal Best, PEF %, FEV<sub>0.75</sub>, Best FEV<sub>0.75</sub>, FEV<sub>1</sub>, Best FEV<sub>1</sub>, FEV<sub>1</sub> Personal Best, FEV<sub>1</sub> %, FEV<sub>6</sub>, Best FEV<sub>6</sub>, FEV<sub>1</sub>/FEV<sub>6</sub>, Best FEV<sub>1</sub>/FEV<sub>6</sub>, FEF<sub>25-75</sub>, Best FEF<sub>25-75</sub>



### Post Software Development Monitor Configuration

Once the software development process is complete, customers can choose from a wide range of standard respiratory monitor configurations or request a quotation for a custom configuration

### Respiratory Monitors Developers' Kit

Designed for providers of e-Diary, home hub and telemedicine solutions, the Device Application Programming Interface (API) Developers' Kit includes Bluetooth® dongle, Vitalograph Reports Software, device API, license agreement, software code and access to our R&D Technical Support Hotline



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.

## Technical Specifications

**Product:** Respiratory Monitor

**Model Number:** 4000

**Quality of Blow Indicator:** Yes

**Accuracy:** Better than +/-3%

**Range:** 0 - 9.99 L BTPS

**Sensor:** Stator rotor

**Flow Impedance:** Better than 0.15 kPa/L/s at 14 L/s

**Power Supply:** AAA batteries

**Display:** Custom liquid crystal display

**Size:** 113 x 63 x 48mm

**Weight:** 55g

**Performance Standards:** ISO 26782:2009; ISO 23747:2007; ATS/ERS 2005

**Safety Standards:** IEC 60601-1:2005

**Designed & Manufactured Under:**

EU Medical Devices Directive 93/42/EEC

(as amended), ISO 13485. FDA 21 CFR 820, CDMR

### Respiratory Monitors Supplied With:

Supplied with Vitalograph Reports Software (USB & BT models), carry pouch, guide for healthcare professionals and batteries.

## Ordering Info

### asma-1

**40000** 4000 asma-1  
**40065** 4000 asma-1 Child  
**40400** 4000 asma-1 USB  
**40300** 4000 asma-1 BT

### copd-6

**40200** 4000 copd-6  
**40450** 4000 copd-6 USB  
**40350** 4000 copd-6 BT

### lung monitor

**40550** 4000 lung monitor  
**40700** 4000 lung monitor USB  
**40750** 4000 lung monitor BT  
**40372** 4000 lung monitor BT SMART

### lung age

**40500** 4000 lung age

### Consumables

**28501** 2030 Eco BVF Bacterial Viral Filters (100)

### Application Developer Resources

**40373** lung monitor BT SMART

Note: If USB data transfer is required, developers can choose from any of the USB models listed

**40426** 4000 Developers' Kit

**Includes:** CD containing device API and Vitalograph Reports, Bluetooth dongle and driver CD, license agreement.

## 4000 Respiratory Monitors

Variant	PEF	FEV <sub>1</sub>	FEV <sub>6</sub>	FEV <sub>1</sub> Ratio	FEF 25-75%	FEV 0.5/0.75	Lung Age	Memory	Personal Best	GOLD	PDF Reports	Import data to SpV
asma-1™	●	●	○	○	○	○	○	600	●	○	○	○
asma-1 child version	●	●	○	○	○	●	○	600	●	○	○	○
asma-1 USB, BT	●	●	○	○	○	○	○	600	●	○	●	●
copd-6™	○	●	●	●	○	○	●	○	○	●	○	○
copd-6 USB, BT	○	●	●	●	○	○	●	○	○	●	●	○
lung monitor	○	●	●	●	○	○	○	200	●	○	○	○
lung monitor USB, BT	○	●	●	●	●	○	○	200	●	○	●	○
lung monitor, BT SMART	●	●	●	●	●	●	○	200	●	○	○	○
lung age	○	●	○	○	○	○	●	○	○	○	○	○

● Available ○ Not available

USB - USB BT -  Bluetooth™



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