

# VITALOGRAPH SPIROTRAC

Medical Workstation Software



SPIROMETRY



ECG



AUDIOMETRY



SpO<sub>2</sub>



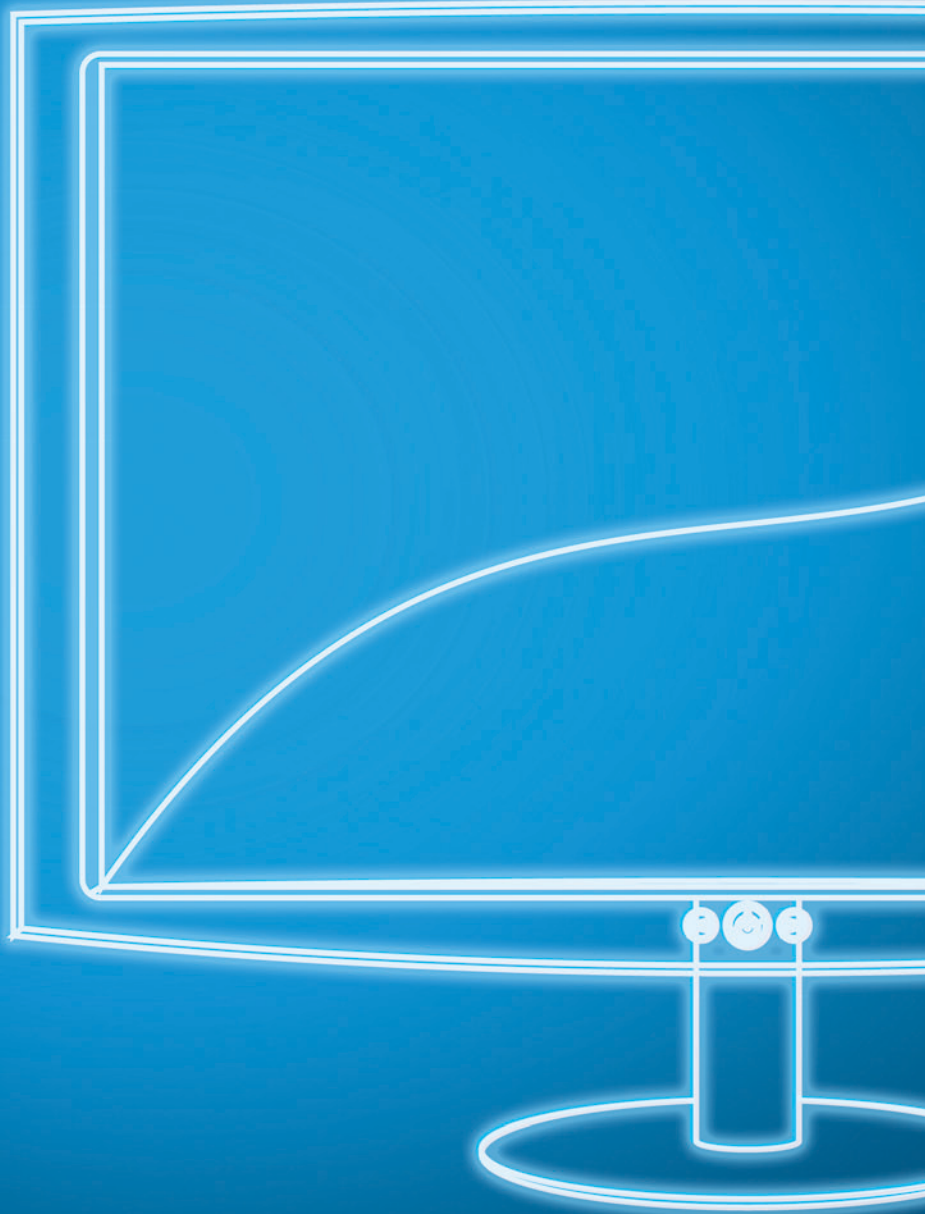
NIBP



EMR DATA EXCHANGE



QUALITY ASSURANCE



# VITALOGRAPH SPIROTRAC

Diagnostic Medical Workstation Software

Spirotrac® Software turns your PC into a powerful and flexible medical workstation, with the ability to integrate test results with electronic medical record (EMR) systems. In addition to spirometry testing, Spirotrac also supports a growing range of additional tests types and physiological measurements including resting 12-lead ECG, SpO<sub>2</sub>, non-invasive blood pressure (NIBP) and audiometry.

## Spirotrac Features

- Simple icon driven menu
- Intuitive user interface
- Automatic storage and traceability of all test data
- Network multiple devices
- Secure encrypted data transmission
- HL7, GDT and CSV data exchange with EMR systems in primary care, secondary care and occupational health\*

## Benefits of Spirotrac Software

Easy to use Spirotrac Software allows you to consolidate a wide range of test types through a single, flexible and powerful software solution. The automatic interface between Spirotrac and electronic medical record (EMR) systems offers a range of benefits including:

### Faster and more efficient workflows

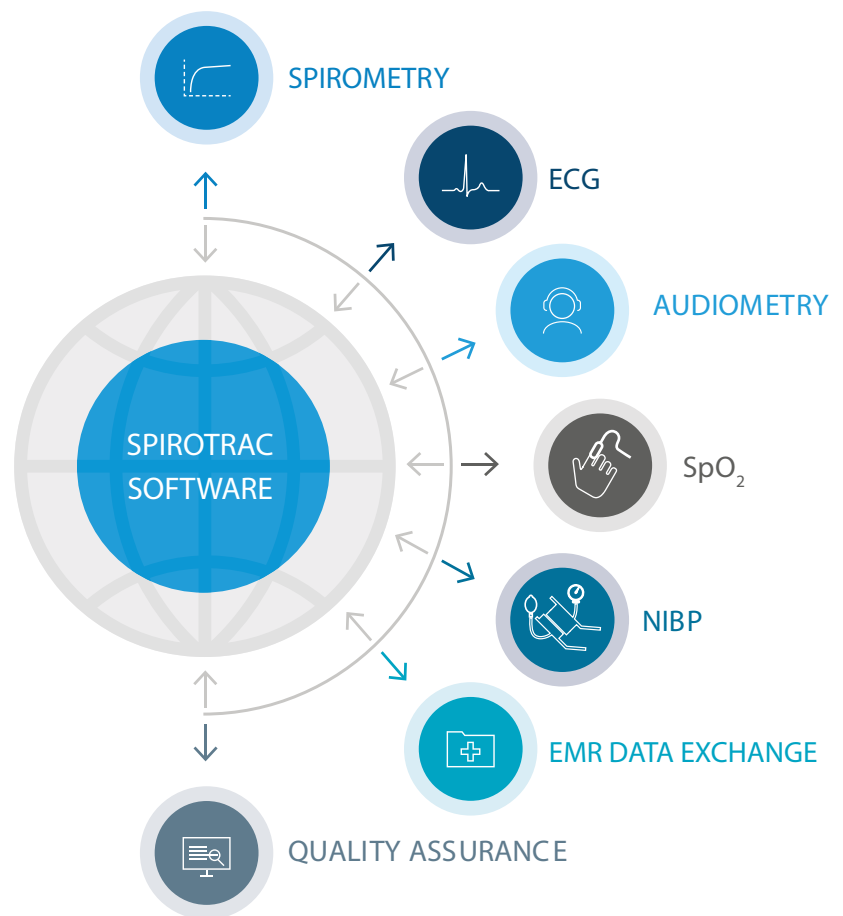
Patients progress through the testing process quickly and efficiently.

### Data accuracy

Automatic two-way transfer of data between the EMR system and Spirotrac reduces the risk of errors that can arise from manual data entry.

### Remote access to all test results

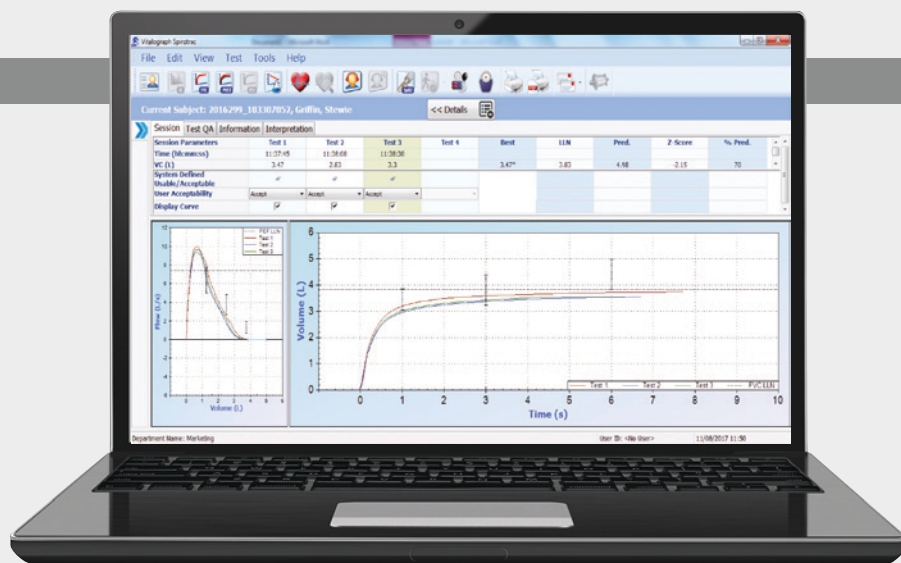
Test data and full pdf reports can be accessed remotely to support speedy diagnosis and progress towards treatment.



\* Data exchange of certain test parameters with specific electronic medical record systems may be at different stages of development. Please contact Vitalograph for further details.

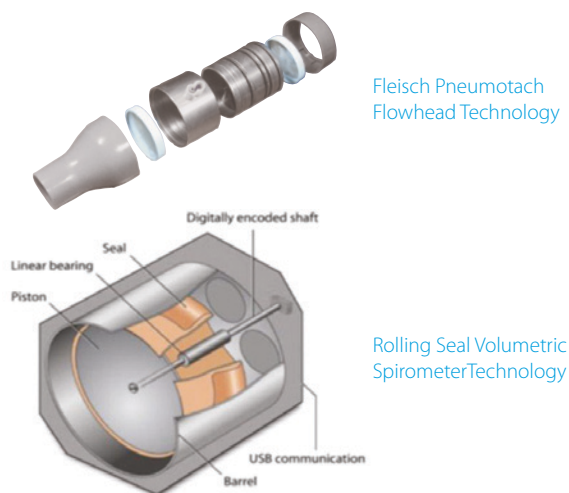
## Spirometry

Spirotrac is compatible with a range of Vitalograph spirometers each designed to meet your particular spirometry needs. If you prefer a PC-based spirometer the Pneumotrac™ is the one to choose. If you need portability the handheld In2itive™ is ideal. The ALPHA™ Touch is best if you need a desktop spirometer with integral printer.



## Accurate, Reliable Technology

Vitalograph spirometers feature a Fleisch pneumotachograph or rolling seal technology for outstanding performance in the delivery of accurate and reliable flow/volume measurements.



## Spirotrac User Configuration Options

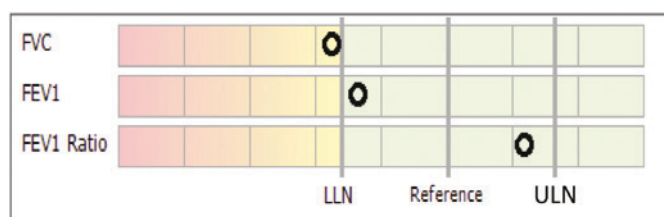
- Scalable volume/time and flow/volume curves using single-breath or multi-breath spirometry
- Optional choice of child incentives with sound effects and transparency so that real-time curves are simultaneously viewable
- Pre-post spirometry comparison for bronchodilator or longer acting treatments
- Choice of over 50 user selectable parameters
- Automatic and scalable FEV<sub>1</sub> trend chart shows the trend of FEV<sub>1</sub> over the lifetime of the subject
- User preference for comparison with reference values: % predicted lower level of normal (LLN) or Z-score (SDS)

## Global Lung Initiative (GLI)

Spirotrac includes the most recent normal reference values from the Global Lung Initiative (GLI). This normative reference data represents the first all age (3-95yrs), global multi-ethnic reference equations for spirometry.

## Methacholine and Mannitol Bronchial Challenge (ATS and Mannitol) Testing

The causes of asthma and allergy can be difficult to diagnose but bronchial provocation with specific sensitisers help to identify the extent and cause of bronchial hyper-responsiveness.



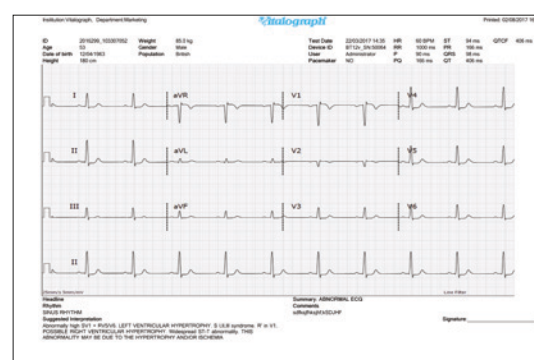
## BT12 Resting 12-lead ECG

Fast, safe, Bluetooth® transmission allows ECG data to be captured, displayed, stored, analyzed 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.



## ECG Key Features

- University of Glasgow Interpretation Algorithm
- Detailed results including measured results (e.g. P duration, PQ interval, QRS period).
- Visual electrode contact indication to assist operator
- Wireless data transmission via Bluetooth
- View traces as 1 x 12, 2 x 6 or 3 x 4 plus rhythm strip
- Automatic pacemaker detection



## Audiometry

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.

All devices are PC-based and connect via USB to Vitalograph Spirotrac Software.

The range offers:

- On-screen audiometry via Spirotrac software
- Fast and easy PC-connection via USB
- Customized settings according to user preferences
- Extensive database and storage capacity
- PDF report generation

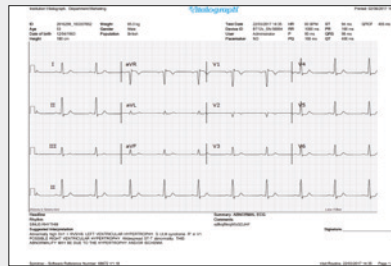
Audiometer Range			
	Screening		Diagnostic
Part No.	70409	70410	70411
Tests			
Manual Test	•	•	•
20dB Auto Test	•	•	•
20dB Random Auto Test		•	•
xxdB Auto Test		•	•
xxdB Random Auto Test		•	•
Hughson Westlake Test		•	•
Ear Protector Test		•	•
MCL & UCL Threshold Tests			•
Bone Conduction Tests			•
SISI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





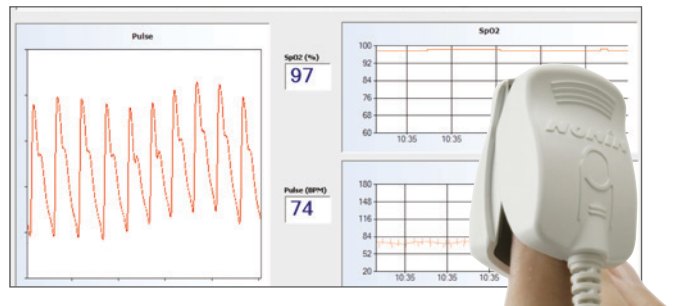
## Spirotrac Reports

- Comprehensive test reports available for all test types
- Trend reports available for spirometry and NIBP
- Custom report service available



## Pulse Oximetry

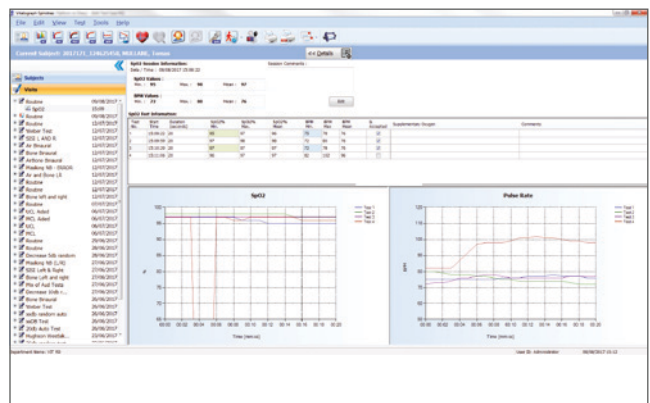
Simply connect the SpO<sub>2</sub> sensor into your PC to deliver accurate and high quality oximetry. This calculates, trends and reports all primary parameters including minimum, maximum and median SpO<sub>2</sub>/pulse rate. Spot check or longer duration recordings are available.



## 6 Minute Walk Test

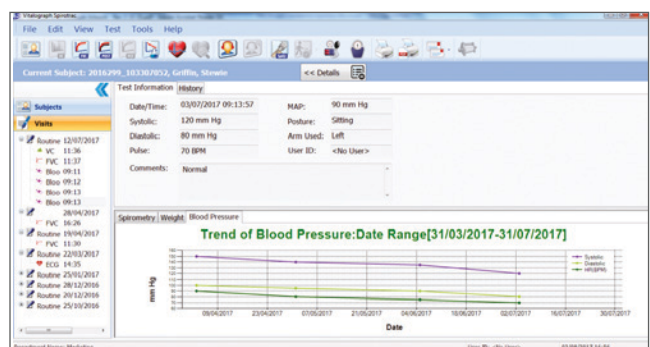
Spirometry and pulse oximetry data is automatically or manually integrated using the ATS/ERS 6 Minute Walk Test (6MWT) protocol.

- 6MWT Wizard guides you through the test
- The BODE\* Index (\*Body Mass Index, Obstructive Index, Dyspnoea Score, Exercise Tolerance) predicts COPD mortality based on FEV<sub>1</sub>, 6MWT, BMI, MMRC and BORG Scale



## Non-Invasive Blood Pressure (NIBP)

- Dedicated manual entry data screen in Spirotrac
- Trend data automatically processed and displayed



## Technical Specifications

**Product:** Vitalograph Spirotrac Software

**Model Number:** 7000

**Safety Standards:** EN ISO 60601-1: 2005 -1 -2 -4,  
IEC 60601-2-25

**Medical Safety Standard:** Medical Devices  
Directive 93/42/EEC1993

**Designed & Manufactured Under:**

ISO 13485:2012, FDA 21CFR820, CDMR & JPAL

**System Requirements:** Processor Speed: 1.73GHz  
or faster

**RAM:** 1Gb or greater

**Disk Space:** 500Mb of free disk space  
plus 1Gb for .NET Framework V3.5 and 1Gb  
for SQL Server (if not already installed)

**Operating System:** Microsoft® Windows™ 7, 8 & 10.

**Monitor:** Min. screen resolution 1024 x 768 pixels

**Other:** Mouse; USB port

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 Spirotrac Compatible Spirometry Devices



Gold Standard  
Volumetric spirometer



ALPHA™ Touch  
Desktop



In2itive™  
Handheld



Pneumotrac™  
PC Based



asma-1 BT™  
Home monitoring

## Ordering Info

**70600** 7000 Spirotrac (software only)

**77700** 6800 Pneumotrac with Spirotrac

**70500** BT12-lead Resting ECG with Spirotrac

**77550** 6800 Pneumotrac & BT12-lead Resting  
ECG with Spirotrac

**70409** Screening Audiometer – Standard  
with Spirotrac

**70410** Screening Audiometer – Advanced  
with Spirotrac

**70411** Diagnostic Audiometer with Spirotrac

**70201** 7000 Spirotrac Networking Licence

**89001** Vitalink Middleware Licence (required  
for data exchange with EMIS™, Vision™  
and SystemOne™ EMR systems)

**NOTE:** Spirotrac Workstation Software includes  
software modules for Spirometry, Resting 12-lead  
ECG, Pulse Oximetry, 6MWT, Audiometry, NIBP  
(manual data entry) and Bronchial Challenge  
Testing (Mannitol and Methacholine)

### Compatible Vitalograph Devices: (for existing Spirotrac customers)

**79400** 2120 Handheld In2itive

**65500** 6000 ALPHA Touch

**41300** BT12 Resting 12-lead ECG

**40400** 4000 Respiratory Monitor asma-1 USB

**40300** 4000 Respiratory Monitor asma-1 BT

**70400** Pulse Oximetry Finger Probe USB

### Consumables and Accessories:

**41301** ECG Electrodes disposable (30)

**28350** 2820 BVF™ Bacterial/Viral Filters (50)

**20929** 2024 Eco SafeTway® mouthpieces (200)

**20242** 2024 SafeTway mouthpieces (200)

**20980** 2024 Mini SafeTway mouthpieces (50)



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