

# Vitalograph ALPHA Touch

Precision spirometry with portability, printing and PC connectivity



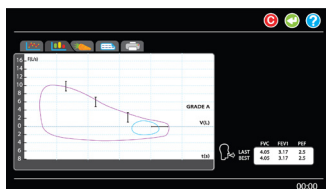
A Global Leader in Respiratory Diagnostics

# ALPHA TOUCH

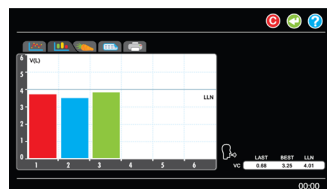
Simple touch screen spirometry with in-built printing and automatic PC connectivity

The Vitalograph ALPHA™ Touch is an easy to use, lightweight desktop spirometer that offers the benefits of portability, data integration and a built in printer. The ALPHA Touch features a precise and robust Fleisch pneumotachograph and a simple icon driven menu, plus a large, high resolution colour touch-screen and storage capacity for 10,000 subjects.

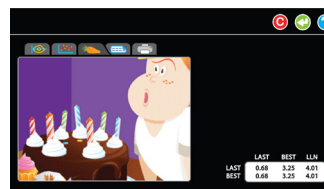
Manual entry of subject data is optional as ALPHA Touch automatically copies all subject data from Spirotrac – saving time and eliminating data entry errors.



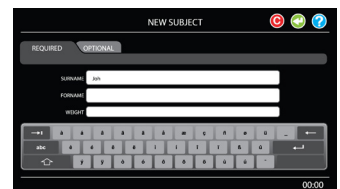
Forced Vital Capacity



Slow Vital Capacity



Child Incentive



Touch Screen Keypad

## Features and Benefits

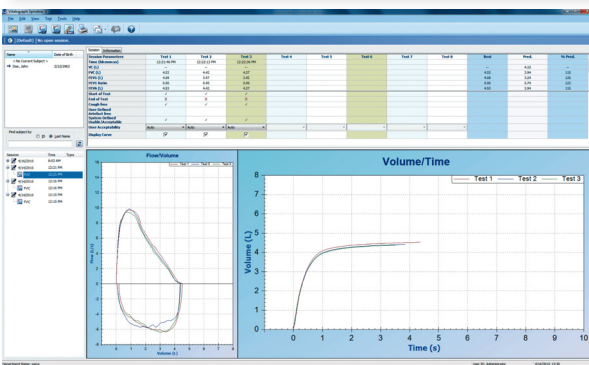
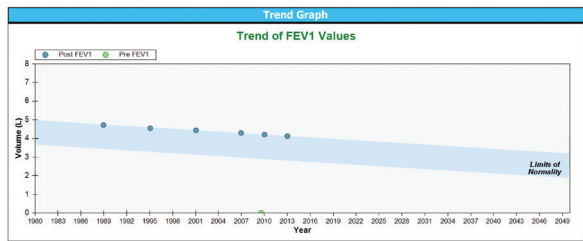
- Fleisch Pneumotachograph, the most accurate, sensitive and robust flow measuring technology available
- High resolution touch screen with simple icon driven menu
- Storage capacity for 10,000 subjects in the device
- Automatic two-way synchronisation of patient data and test sessions between ALPHA Touch and Spirotrac
- F/V & V/T curves viewable in real time
- Print via the internal printer, which holds longer than average rolls, or produce A4/letter sized reports via Spirotrac or Vitalograph Reports
- Over 50 selectable test parameters
- Pre-post bronchodilator comparison
- Single or multi breath testing
- % predicted or standard deviation scores (SDS scores) comparison
- Ensures best practice with quick and easy calibration verification routines as recommended by 2019 ATS/ERS spirometry guidelines.
- Hours of battery life for a full day of off site testing
- Choice of child incentives with sound effects
- Robust carrying case

# Enjoy the convenience of extensive connectivity via Spirotrac PC Spirometry Software

Vitalograph Spirotrac® Software combines the power of your Windows® PC and your network, providing long-term storage of spirometry data, with test results being tracked and trended over time, to create a powerful disease management tool. Once the ALPHA Touch is connected to Spirotrac, all sessions can be automatically transferred to, and synchronised with, Spirotrac. This enables full connectivity to your PC, your network and your Practice Management System.



Subject Information			
Last Name:	Doe	ID:	2009212_102032623
First Name:	John	Alternate ID:	JJD
Middle Name:	J	Population Group:	European
Date of Birth:	05-May-1980	Age:	29
Height:	180 cm	Gender:	Male
Weight:	75 kg	BMI:	23.1
Notes:			



## This powerful connectivity capability offers

- Automatic upload of subject data and download of test data to Spirotrac
- Trending of actual and normal range data over the lifetime of a subject
- Features latest GLI spirometry predicted equations and Z-scores
- Built in GDT and HL7 connectivity to many Occupational Health and electronic medical record systems through Spirotrac software

## Spirometry report print options

- Create spirometry reports from your ALPHA Touch via the built-in printer or via your PC using Spirotrac or Vitalograph Reports Software
- Configurable spirometry reports, accuracy check and calibration reports, trending reports and event logs



# Technical Specifications

**Product:** ALPHA Touch

**Model No:** 6000

**Dimensions:** 300mm x 250mm x 75mm

**Weight:** 2kg net

**Gross Weight and Size (Packed):**

**Weight:** 4kg

**Packed Size:** 470mm x 112mm x 377mm

**Subjects:** Automatic population of database from Spirotrac. Name, ID; Age, Height, Gender; Smoking Status, Body Mass Index and more depending on model. Storage of up to 10,000 subjects  
**Selectable Parameters (depending on model):** VC; IVC; IC; VT (TV); TLC; RV; IRV; ERV; FRC; FVC; FIVC; FEV<sub>1</sub>; FEV<sub>3</sub>; FEV<sub>6</sub>; FVC; FEV<sub>1</sub>/VC; FEV<sub>1</sub>/FVC; FEV<sub>3</sub>/VC; FEV<sub>3</sub>/FVC; FEV<sub>1</sub>/FEV<sub>6</sub>; FEF<sub>75</sub>; FEF<sub>50</sub>; FEF<sub>25</sub>; FEF<sub>25-75</sub>; FEF<sub>25-75</sub>/FVC; FIV<sub>1</sub>; PIF, FIV<sub>1</sub>/FIVC, FIF<sub>25</sub>, FIF<sub>50</sub>, FIF<sub>75</sub>, FEF<sub>50</sub>/FIF<sub>50</sub>, FET, MVVind, FEV<sub>1</sub> Ratio; FEV<sub>0.5</sub>; PEF L/min; PEF L/s; FEF<sub>0.2-1.2</sub>; FEF<sub>75-85</sub>; FEF<sub>25</sub>; FEF<sub>50</sub>; FEF<sub>75</sub>; FMFT; FIF<sub>25</sub>; FIF<sub>50</sub>; FIF<sub>75</sub>; PIF; FEV<sub>0.75</sub>; Lung Age and more

**Environmental Data:** Selectable:

Temperature (built in sensor), Barometric pressure, altitude and humidity

**Test Types:** Single breath tests, flow/volume loops, multi-breath testing, tidal breathing and combined VC/FVC type test methods supported

**Predicted Values Selectable (depending on model):** GLI, ERS/ECCS; NHANES,

Polgar, Pereira, Berglund, Forsche, Gutierrez, Hedenström, Taiwan; Knudson, Crapo; Hsu; KNLW; Viljanen; SEPAR; Gulsvik; SBPT; Tamura; Ip; Quanjer; Wang; Dockery and more

**Storage Humidity:** 10% to 95%

**Storage Temperature:** 0°C to 50°C

**Recommended Operating**

**Temperature Range:**

17 - 37°C; Design Limits: 10-40°C

**Data Storage:**

Stores up to 10,000 subjects

**PowerSAFE™:** Input 100 - 240V AC 50-60Hz, output 12V DC

**Battery Pack:** Rechargeable NiMh, 7.2V 1, 800mAh

**Flow Detection Principle:**

Fleisch type pneumotachograph

**Volume Detection:**

Flow integration sampling @ 100Hz

**Resolution:** 10 mL volume; 0.01 L/s flow

**Accuracy when Operated in Operating Temperature Range Conditions:**

Flow +/- from 10% to 5%

Max flow rate +/-16L/s

Min flow rate +/-0.02L/s

**Volume Accuracy:** Better than +/-2.5%

**Maximum Displayed Volume:** 10 L

**Linearity:** +/-2.5%

**Maximum Teest Duration:** 90 seconds

**Flow Impedance:** <0.1kPa/L/s @ 14L/s

Complies with ATS/ERS 2019

**Printer:** Thermal

**Performance Standards:**

ISO 26782:2009, ISO 23747:2015;

Accuracy performance: ATS/ERS 2019

**Medical Devices Directive:**

93/42/EEC as amended

**Designed & Manufactured Under:** ISO

13485:2016, FDA 21CFR820 and CMDR

**Communications:** USB and CF card

**Connectivity:** USB 2 B

## Ordering information

**6000** ALPHA Touch

**6000** ALPHA Touch (With 7000 Spirotrac Software)

**70201** Spirotrac Multi-User Licence

**89001** Vitalink™ Practice Management

Connectivity System Software

**28554** 2820 Eco BVF with Bite Lip (75)

**28553** Eco BVF with Bite Lip + Disposable Nose Clip (75)

**36020** 2040 Precision Syringe 3-L

**66149** Thermal printer paper (5)

**42084** Flow conditioning meshes (10)

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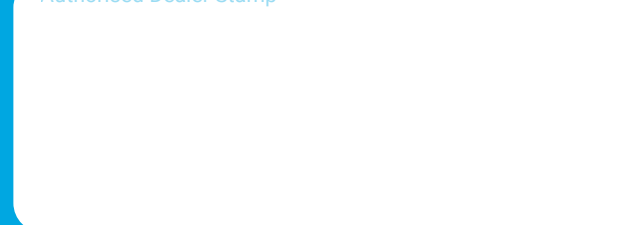
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