



the difference is clear

# Vitalograph COMPACT

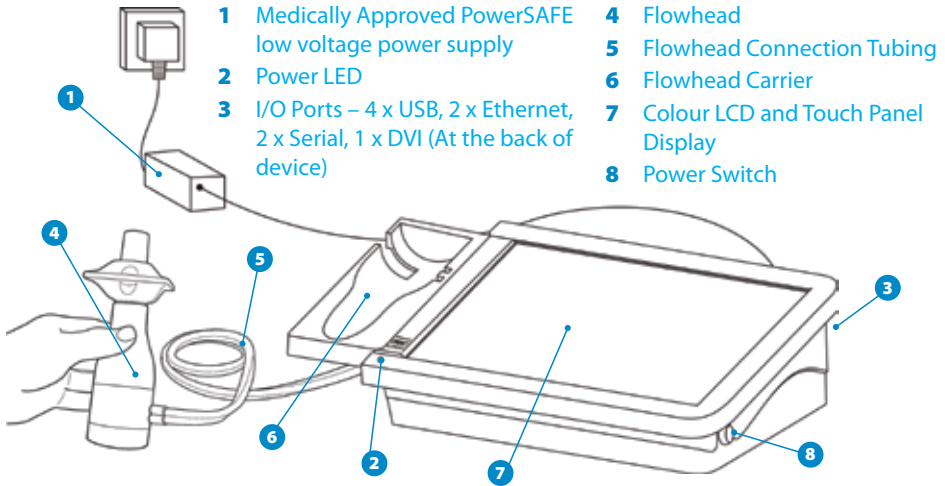
## Quick Start Guide

### **Sophisticated, integrated cardio-respiratory diagnostic workstation**

Using this guide it will take you just a few minutes to produce your first spirometry test results using the Vitalograph COMPACT Expert. The COMPACT Expert runs Vitalograph Spirotrac software. If you need further device instruction details, please refer to the Spirotrac User Training Manual or visit the Service & Support section of the Vitalograph website for technical support contact details.

## Setting up the COMPACT

To use the COMPACT, set up the device as in the instruction sheet, plug in the power supply (1) at the back of the device (3) and switch on by pressing the power switch (8).



## Logging into the COMPACT

1. **First use:** User should see a database setup screen. For first setup this gives no options so select "continue" and move on to the setup wizard.
2. Enter Administrator User details. To enter text, touch the keyboard icon on the screen and use the keyboard to enter the relevant details. To close the keyboard, touch the X at the top right hand corner of the onscreen keyboard.
3. Enter Username and Password and select "continue"  
*Note: selecting the "disable user logon" option here will allow the device to be used with reduced security, so is not recommended.*
4. Enter institution details and select "continue".
5. Enter department details and select "continue".
6. Spirotrac software will open.
7. User is recommended to familiarise themselves with the operation of the COMPACT prior to testing subjects. To do this create a demo subject and perform a Spirometry test session.
8. **Subsequent logon:** User ID will be pre-populated with the User ID of the last person who logged into the Spirotrac software application. If required replace this with your own User ID.
9. The application desktop will open if login is successful.



Keyboard Icon



Logon Screen

## Using the COMPACT on a network

1. If the COMPACT is to be networked, it can use its local database or a Spirotrac database installed on a server.
2. If the site has a previous Spirotrac installation with a large database we recommend that the network system administrator contact Vitalograph IT support for advice before commencing installation of the COMPACT.
3. For new server installations a utility can be provided which allows the creation of the database.
4. We strongly recommend the use of SQL server for databases installed on a server, not SQL Express.

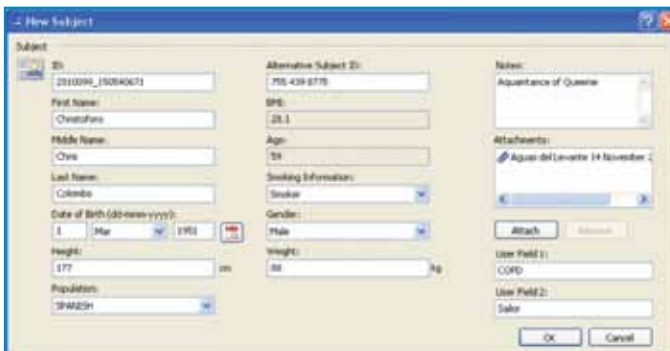
## Accuracy check

1. Users should perform a daily accuracy check before commencing testing.
2. Select the syringe icon.
3. It is recommended to check the accuracy using a 3-L Precision Syringe.



## Entering subject data

1. To enter a new subject, click on the new subject icon. Fill out the fields using tab on the keyboard to move between fields.
2. When you have filled in all the fields, click OK.
3. The subject is now the Current Subject and shows in the Subject Demographics tab until a test session commences.

A screenshot of a software window titled 'New Subject'. It contains a form with various input fields for subject information. The fields are organized into columns. The first column includes fields for ID, First Name, Middle Name, Last Name, Date of Birth, Height, and Population. The second column includes Alternative Subject ID, SPS, Sex, Age, Smoking Information, Gender, and Weight. The third column includes Notes, Attachments, and two User Field inputs. There are 'OK' and 'Cancel' buttons at the bottom right.

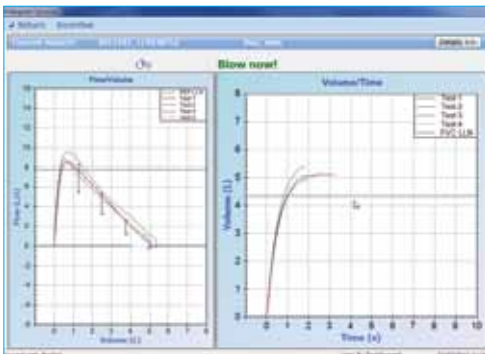
New Subject Icon

New Subject Screen

## Performing a spirometry test session

***It is highly recommended to test yourself on any new device before using with a real subject.***

1. For each subject insert a new BVF™ (Bacterial/Viral Filter) in the flowhead or use a SafeTway® mouthpiece (SafeTway mouthpieces are for use if you are conducting expiratory testing only, the BVF helps to protect the device as well as the test subject).
  2. Fit a disposable noseclip to the subject.
  3. Click on the **VC or FVC Icon**. Wait until the message "Blow Now!" appears above the graph display.
  4. Give your test subject the following instructions:
    - ⊗ Sit upright and relax
    - ⊗ Hold the flowhead away from your mouth
    - ⊗ Inhale as deeply as possible and hold your breath
    - ⊗ Now place the mouthpiece into your mouth and hold it firmly between your teeth and seal your lips around it (demonstrate this with another mouthpiece)
    - ⊗ For VC: Blow out slowly and keep blowing until your lungs are completely empty, like this (demonstrate the manoeuvre)
    - ⊗ For FVC: Blow out as hard and fast as possible, keep blowing for at least 6 seconds, like this (demonstrate the manoeuvre)
    - ⊗ Then get the test subject to inhale, hold, insert mouthpiece and blow
- After the subject has finished blowing, a dialogue field appears and gives advice on the test quality.
5. Click on the button  in order to accept the test, click on  in order to reject the test or click on  to let Spirotrac decide. A minimum of 3 acceptable blows are required for a satisfactory test series.
  6. Click on the **Return Icon** (top left of screen) to exit the test screen.
  7. All tests are automatically saved whether or not you have rejected them.



COMPACT "Blow Now" Message



Quality Message Dialogue Box

## Creating a report

1. To create a spirometry report after testing press the 'Report' Icon to transmit or print.
2. Select printer or PDF and follow the on-screen instructions to print or save the PDF.

***Congratulations! You have successfully completed your first spirometry session.***

3. Navigate between Spirotrac and report screens using the Window tab at the top of the display.
4. There are many other report options, refer to Tools/Options/Reports.

Institution: RBD Hospital, Department: ERvis Dept Printed: 01/06/2012 14:21

**Atalograph**

**Pulmonary Function Report**

Subject Information					
Last Name: Doe	ID: 2012185_114438752	Alternate ID: JD			
First Name: John	Date of Birth: 01/01/1985	Age: 27			
Middle Name:	Height: 175 cm	Gender: Male			
Population: EUROPEAN	Weight: 80.0 kg	BMI: 26.1			

Test Session Information					
Test Date: 23/07/2012 11:23	Device: COMPACT	Serial Number: RUG71			
No. of Tests: 4	Accuracy Chk: 02/07/2012 14:52	User: Tachsupport			
Pred. Values: ERS '93Pulgar	Pred. Factor: 100%	Posture: Sitting			

**Flow/Volume Graph**

**Volume/Time Graph**

Results						
Parameter	ATS/ERS Best	Pred	% Pred.	Best 1(Test 3)	Best 2(Test 1)	Best 3(Test 2)
FVC (L)	5.39	5.04	107	5.39	5.11	5.00
FEV1 (L)	4.72	4.35	111	4.72	4.38	4.32
FEV1 Ratio	0.88	0.82	107	0.88	0.85	0.86
PEF (L/Min)	374	584	64	574	509	522
FEF25-75 (L/s)	4.91	4.93	100	4.91	4.54	4.48
FEF50 (L/s)	5.20	5.48	95	5.20	5.16	4.98

\*Values lower than level of normality (LLN)

Session Quality and Repeatability Information					
Session Grade	FVC Repr:	PEV1 Repr:	Show Start of test	End of test criteria not achieved	Cough detected in last second
C	0.28 L	0.34 L	0 blow(s)	3 blow(s)	0 blow(s)

**Computer Suggested Interpretation**

This test session has not met the QA criteria. Interpretation of this data may not be appropriate. Normal ventilatory function.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



Report Icon

## Ordering Info:

- 67800 6600 COMPACT with Fleisch Pneumotachograph includes software modules for Spirometry, ECG, SpO2, BP, Weight, Bronchial Challenge Testing, 6MWT
- 67900 6600 COMPACT with Fleisch & ECG

### COMPACT Compatible Devices:

- 70400 Pulse Oximetry Finger Probe USB
- 70401 Biometric Scanner USB
- 70402 Blood Pressure Monitor USB
- 70403 Blood Pressure Monitor Bluetooth
- 70404 Medical Weighing Scales Bluetooth

### Other Vitalograph medical devices that communicate with COMPACT:

- 79400 2120 Hand Held In2itive Spirometer
- 65500 6000 ALPHA Touch™
- 40400 4000 Respiratory Monitor asma-1™ USB

### Consumables and Accessories:

- 41301 Disposable ECG Electrodes (30)
- 28350 2820 BVF™ Bacterial/Viral Filters (50)
- 20242 2024 SafeTway® mouthpieces (200)
- 20980 2024 Mini SafeTway mouthpieces (50)
- 20303 2030 Noseclip disposable (200)
- 36020 2040 Precision Syringe 3-L
- 41302 ECG Simulator

## Contents:

- COMPACT Expert
- Fleisch flowhead
- Silicone twin-tubing
- PowerSAFE™
- User Instructions sheet
- Regulatory notices



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