

Vitalograph Spirotrac Software Quick Start Guide



A. Getting started - simple installation

System components:

1. Spirotrac® software and drivers on USB key
2. USB Cable
3. * Pneumotrac™ Base
4. Flowhead Connection Tubing
5. * Pneumotrac Flowhead
6. Bacterial Viral Filter (BVF™)

*For the Vitalograph Pneumotrac only

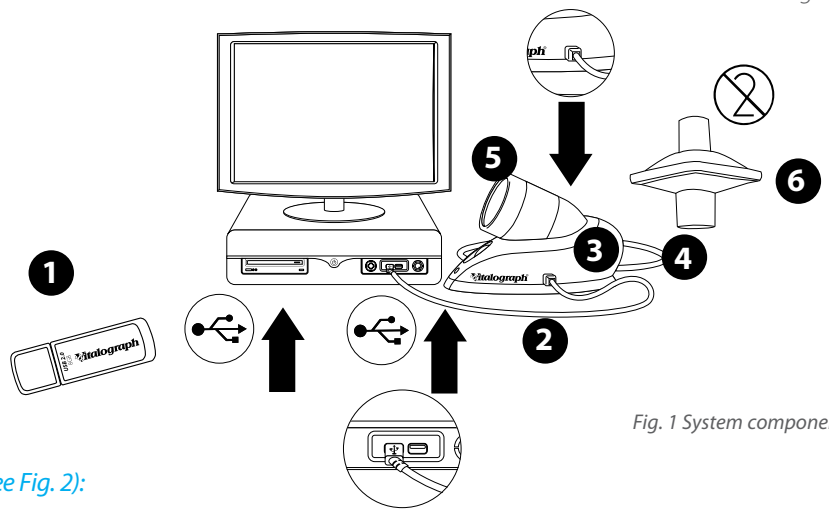


Fig. 1 System components

To install Spirotrac Software, please follow these steps (See Fig. 2):

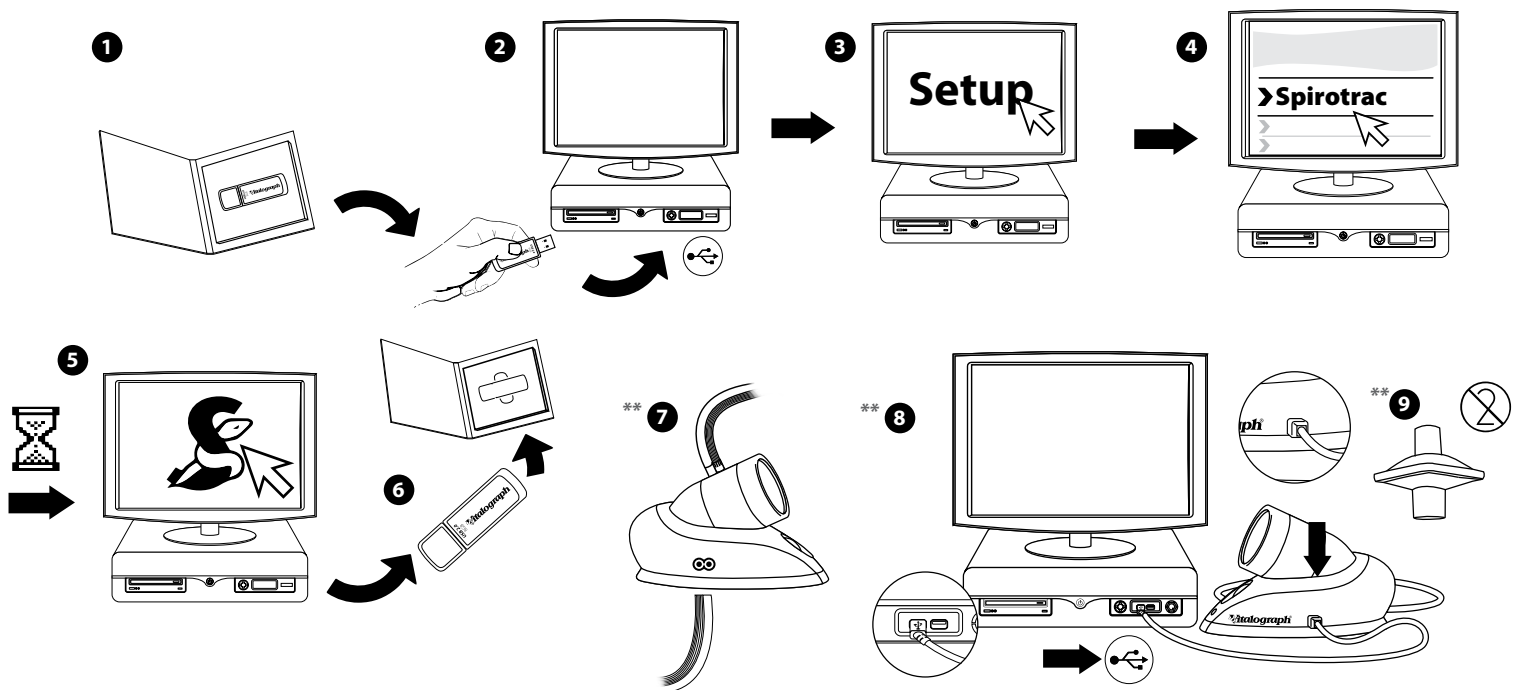
1. Remove Vitalograph® USB drive from the outer packaging.
2. Insert the Vitalograph USB drive into an empty USB port on the computer.
3. Browse to the USB Drive and click the 'Setup' file which launches the installation menu.
4. From the installation menu select '> Install Spirotrac' to install the application. Follow the on screen instructions to complete the installation. This may take some time.
5. Close the installation and select the Vitalograph Spirotrac icon from the desktop to launch the application.
6. Remove the Vitalograph USB drive from the USB port after completing steps A & B.
7. **Connect the Flowhead Connection Tubing to the Pneumotrac Base and the Pneumotrac Flowhead.
8. **Using the USB cable provided connect the Pneumotrac Base to one of the computers USB ports.
9. **For each subject insert a new BVF (Bacterial Viral Filter) in the flowhead. Vitalograph recommends use of a BVF to protect the subject and the device.

**** Note: Instructions are for the Vitalograph Pneumotrac. For all other Vitalograph devices see the specific guidance included with the device.**

Notes:

- You will need Administrator privileges to install the software.
- If this is a new installation you will be asked to enter your device serial number or enter a network license key to activate the software.

Fig. 2 Spirotrac installation

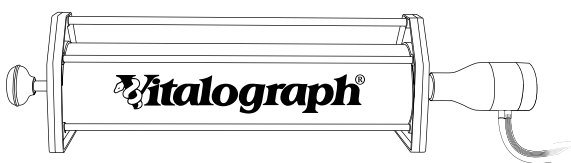


B. Spirotrac setup

1. Select the Spirotrac icon from the desktop to launch the application (if not already running).
2. Confirm the database connection details. For Network Installation, please refer to the User Training Manual on the installation menu (*Installation instructions - A3*) or contact Vitalograph for support.
3. Enter **Administrator User** details, **Username** and **Password** and select **Continue**.
4. **Note: Selecting the "disable user logon" option here will allow the device to be used with reduced security, so is not recommended.**
5. Enter institution details, select **Continue** followed by department details and **Continue**.
6. **Log in:** User ID will be pre-populated with the user ID of the last person who logged in. If required, replace this with your (current user) ID. Other user IDs including technicians are created by the administrator using **Tools > User Management**.

C. Accuracy check (recommended by ATS/ERS spirometry standard)

1. Click on the **Syringe** Icon on the menu bar in Spirotrac.
2. Follow the on screen instructions to check the accuracy using a Precision Syringe.



3 Litre Precision Syringe with Pneumotrac Flowhead attached

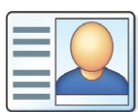
D. Entering subject data

Automatic subject demographics:

If your EMR (Electronic Medical Record) system supports GDT/HL7 Standard data exchange, you do not normally need to enter new subjects. You simply launch Spirotrac from your EMR software and the subject data will be imported automatically.

Creating a new subject:

1. To enter a new subject, select the new subject icon. Fill out the necessary fields. You can use Tab key on your keyboard to move to the next field.
2. When you are finished filling in the relevant data, select OK.
3. The subject is now the **Current Subject** and shows in the **Subject Demographics** tab until a test session commences.



New Subject Icon

Subject		Alternative Subject ID:	Notes:
ID:	201009P_150540671	755 439 8775	Acquaintance of Queeste
First Name:	Christoforo	BMI:	28.1
Middle Name:	Chris	Age:	59
Last Name:	Colombo	Smoking Information:	Smoker
Date of Birth (dd-mm-yyyy):	11 Nov 1951	Gender:	Male
Height:	177 cm	Weight:	108 kg
Population:	London	Attachments:	Aquas del Levante 14 November 2
		Attach:	Remove
		User Field 1:	COPD
		User Field 2:	Sale
<input type="button" value="OK"/> <input type="button" value="Cancel"/>			

New Subject Screen

E. Conducting a test

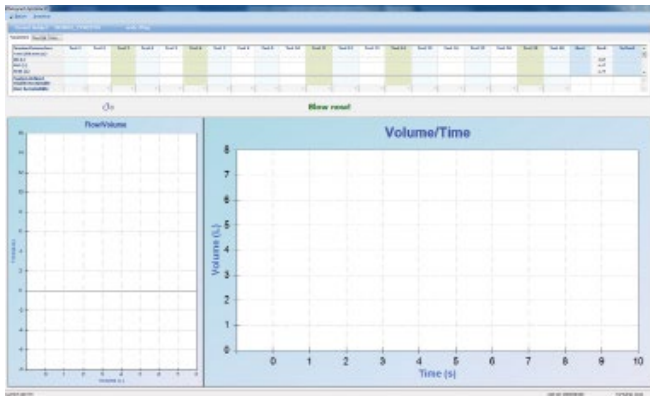
Directions for all types of testing using Spirotrac may be found in the **User Training Manual**, available under the Help menu in Spirotrac.

Example tests may be found on the Vitalograph website.

Spirometry testing:

1. For each subject insert a new BVF™ (Bacterial Viral Filter) in the flowhead. Fit a disposable noseclip to the subject.
2. Click on the VC or FVC Icon. Wait until the message "Blow Now!" appears above the graph display.
3. 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 BVF into your mouth and hold it firmly between your teeth and seal your lips around it (demonstrate this with another BVF).
 - 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.
4. After the subject has finished blowing, a dialogue field appears and gives advice on the test quality.
 5. Click on the 'Accept' button in order to accept the test, click on 'Reject' in order to reject the test or click on 'Auto' 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.



Spirotrac V Screen - "Blow Now!" Message



FVC Icon



Quality Message Dialogue Box

F. Creating a report

1. When you have finished testing and want to create a report simply click on the 'Report' Icon.
2. There are many other report options, refer to **Tools/Options/Reports**.



Report Icon

G. Electronic Medical Record (EMR) integration

1. Integrated HL7 and GDT communication interfaces provide the platform for test data exchange with all common electronic medical record (EMR) systems.
2. Certain practice management EMR systems that do not conform to HL7 or GDT file data transfer protocols will require Vitalink Middleware Software. Please contact Vitalograph for further information.

Ordering Information:

Software

- 70201** 7000 Spirotrac Network Licence
- 70202** 7000 Spirotrac Upgrade and IT Support
- 89001** 8900 Vitalink
- 70454** Spirotrac Software Developers Kit

Other Spirotrac Compatible Devices

- 79400** 2120 Hand Held In2itive™ Spirometer
- 65500** 6000 ALPHA™ Touch
- 40400** 4000 Respiratory Monitor asma-1™ USB
- 70400** Pulse Oximetry Finger Probe USB
- 41300** 12-Lead BT ECG EU (IEC)
- 41303** 12-Lead BT ECG US (AHA)

Spirometry Consumables

- 28350** 2820 BVF Bacterial Viral Filters (50)
- 20303** 2030 Noseclips (200)
- 28554** 2820 Eco BVF with Bite Lip (75)
- 28553** 2820 Eco BVF with Bite Lip and Disposable Noseclip (75)

Accessories

- 36020** 2040 Precision Syringe 3-L
- 77934** Flow Conditioning Meshes (10)

Technical Support:

Call +353 65 6864082 or e-mail: spirotrac@vitalograph.ie