

# Spiromagic user guide

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## 1 Introduction

Thank you for purchasing the Spiromagic device. With this product combined with the Spiromagic app you will now be able to measure and track your lung function from your home. In this way you will be aware of conditions, that you are able to affect like new or changed medical treatment. Be sure to always contact your doctor before changing any medical treatment. Be aware that Spiromagic is a so called helping device for you and your doctor and not a guide for your medicinal dose. It is a device that will help you to know you and your disease better.

In this manual you will be guided through all procedures setting up your device and highlight the key functions of Spiromagic. Please use this guide when setting up your personal information on the Spiromagic app and when you start using the Spiromagic device. We recommend that you save this manual for future reference.

To learn more about Spiromagic's features, refer to our FAQ or visit our web site [www.spiromagic.dk](http://www.spiromagic.dk) or contacts us via [info@spiromagic.dk](mailto:info@spiromagic.dk).

## 2 Package contents

- Spiromagic device (Spirometer)
- Spiromagic pouch
- User manual
- Carrying pouch
- 2 AAA batteries

## 3 Intended use

The Spirometer device and app is a precision electronic device intended for adult use. The spirometer is designed to measure the lung function for citizens suffering from COPD. Combined with the Spiromagic app the spirometer can analyze your personal information and the usage of the spirometer device so the individual can have a better understanding of this illness and combined with the personal sense of the illness might know the conditions of when an attack from COPD might happen.

## 4 Important note for users

Some physical conditions could affect the usage of Spiromagic. You have to be aware if you are out of breath or having an actual attack. Otherwise the measures might be inaccurate. Be sure to contact your doctor if you are unsure about this.

Wrong personal information will cause inaccurate measurements and results. Please always store the spirometer in a dry place.

## 5 User contradiction

Never use this product in combination with medical electronic devices such as:

1. Electronic life support Systems such as artificial heart/lungs.

## 2. Measurements in acute situations

This product could cause these devices to malfunction posing a considerable health risk to users of these devices.

## 6 Electronic parts



The Spiromagic Device

## 7 Set up requirements

The spirometer is designed to be used with the following iPod touch and iPhone models:

iPod touch (5th generation)

iPhone 4s

iPhone 5

iPhone 5s

iPhone 5c

iPhone 6

iPhone 6 plus

The iOS on these devices should be 7.0 or higher.

## 8 Set up procedures

### 8.1 Download the free app: Spiromagic

Prior to first use, download and install the Spiromagic app from App Store. It is very important that the user follows the on-screen instructions to register and complete a personal profile because data points such as height, weight and age are necessary to measure your lung function.

### 8.2 Preparing for set up

- iOS device is compatible and is version V7.0 or higher.
- Wireless Internet connection provided by a router or 3G/4G via your own Apple device

### 8.3 Install batteries

AAA battery installation: Open the battery cover, as shown on the picture and place batteries correctly. Place the battery cover back on the spirometer and press it until it clicks.



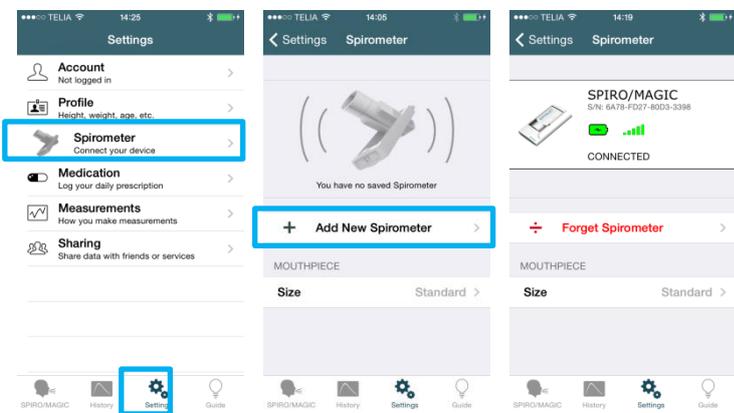
Always dispose batteries in a battery box meant for this purpose.

Do you no longer wish to have your spirometer please send this to Spiromagic. The address can be found at [www.spiromagic.com](http://www.spiromagic.com). Please send a note along with your spirometer explaining why you no longer wish to have this product or send us an e-mail on [info@spiromagic.dk](mailto:info@spiromagic.dk). Never throw your spirometer in a regular garbage can or container.

### 8.4 Connect your Spirometer

To connect your Spirometer to the Spiromagic app follow the instructions:

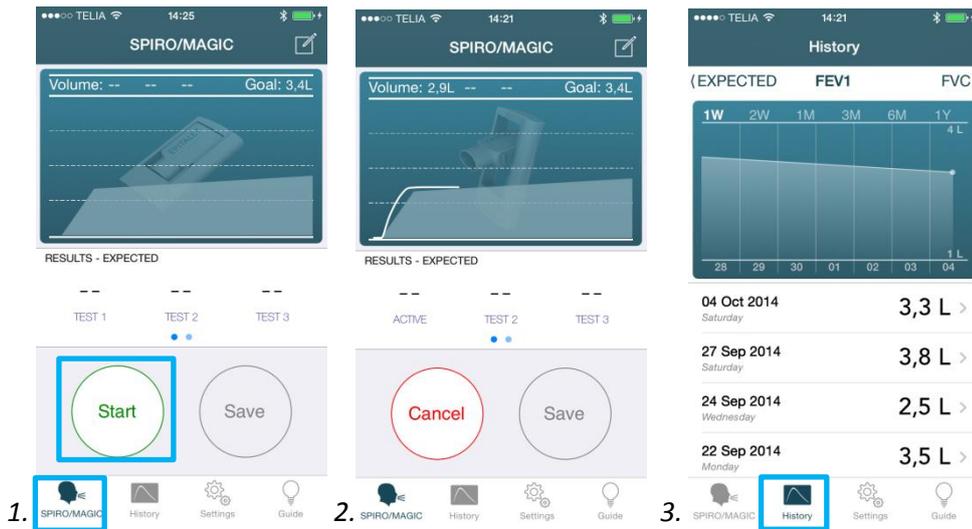
1. Turn on Bluetooth on your Apple device. You can do this in your phone settings → Bluetooth → Slide the Bluetooth function so it turns green.
2. Open the Spiromagic app.
3. Go to settings in the Spiromagic app and press *Spirometer, connect your device*.
4. Press *Add new Spirometer* and wait until it says *CONNECTED*.



## 8.5 How to use

You are now ready to use you Spiromagic.

Press *SPIRO/MAGIC*. When you press *Start* you have to blow all you can as long as you can until the graph on the screen hits the opposite side. Do this three times and you will have measured your average lung function at this moment. You will be able to see where your measures are compared to your age group. You are now able to save your result so you can see it later. This result can afterwards be seen under *History*.



## 8.6 Instructions

For more instructions please see [www.spiromagic.dk](http://www.spiromagic.dk) or contact us on [info@spiromagic.dk](mailto:info@spiromagic.dk).

## 9 Specifications

1. Product name: Spirometer
2. Device dimensions: L: 12cm B: 6,3cm D: 2cm
3. Weight: 82,2g (including battery) and 59,3g (no battery).
4. Measure method: Automatic electronic measurement by blowing into the Spirometer.
5. Power: 2x15V. AAA batteries
6. Measurement range: Measures lung function from the individual's blow and written personal information. It measures compared to the norm set by international standards.
7. Operating temperature: +5°C to +40°C.
8. Storage and transportation temperature: from - 5°C to + 50°C.
9. Battery life: Approx. more than 3 months with daily use.

## 10 General safety and precautions

1. Read all of the information in the User guide before operating this product.
2. Do not use the spirometer while moving.
3. Do not give the product to children under the age of 18. The product is designed for adult use and should be used hereafter.
4. Make sure that the spirometer is not wet inside before using it.
5. Treat the spirometer with care. Do not drop it or step on it. The spirometer is designed for you to have on the move and can stand a certain amount of activity. Misuse or abuse may render the electronic device to be inoperative and/or affect the features of the device.
6. People with artificial heart/lung should not be using this product without consulting a doctor first.
7. The spirometer might not be functioning correctly if it has been used, stored or transported outside the temperatures set under Specifications in this user guide.
8. This electronic device has been tested by users suffering from COPD.
9. Be sure to wipe with a soft damp cloth the mouthpiece before using the spirometer.

## 11 Care and maintenance

1. Do not immerse the spirometer in water as this will damage the spirometer.
2. Mouthpiece is detachable and may be washed-up and/or disinfected.
3. If the Spirometer is stored in temperatures outside the ones written in Specifications in this user guide, allow it to acclimatize to room temperature before use.
4. Do not attempt to disassemble the spirometer.
5. Clean the spirometer with a soft damp cloth if dirty. Do not use any solvent-based cleaners.
6. The spirometer is essentially maintenance-free and requires no user intervention.

## 12 Warranty Information

The spirometer is warranted to be free from defects in materials and workmanship appearing within 1 year from the date of purchase, when used in accordance with the instructions provided. The above warranties extend only to the original retail purchaser. We will, at our option, repair or replace without charge any product covered by the above warranties. Repair or replacement is our only responsibility and your only remedy under the above warranties. If you have any questions, please contact us on [info@spiromagic.dk](mailto:info@spiromagic.dk).