



ONE-TOUCH WIRELESS HEALTH TRACKER

BODY LIFE TRACKER

Spirometer

User Manual

Model: VA08

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Legal

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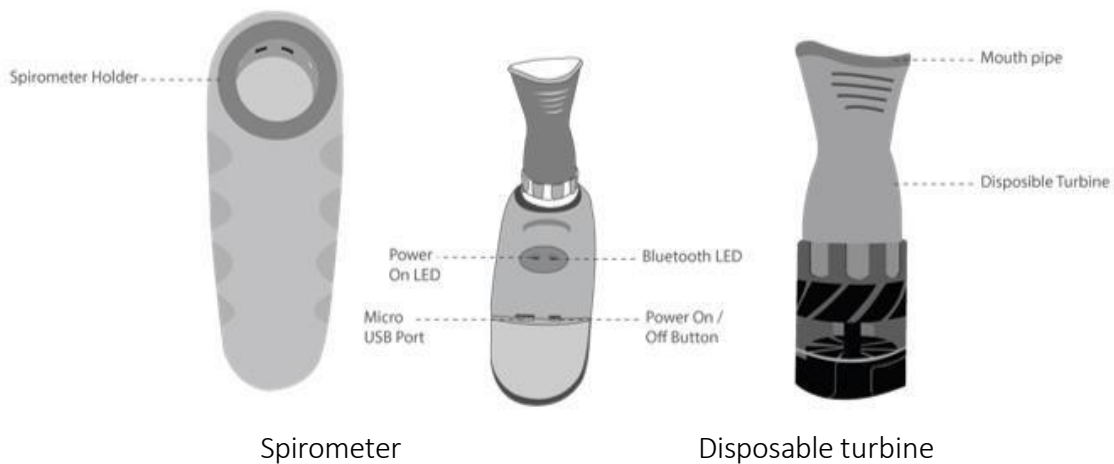
1.0 Overview

Model VA08 –Spirometer

Thank you very much for purchasing B.O.L.T the One -Touch Wireless Health Tracker. Please read this User Manual thoroughly to ensure safe and correct use of the product. Please keep this User Manual for future reference.

2.0 Introduction

Spirometer device is a portable diagnostic system which can measure/monitor the lung function. This device is used to assess the condition of the lungs by measuring the volume of air inhaled and exhaled. The system consists of the electronics part with enclosure and a disposable turbine where the user blows and sucks air. The device calculates the flow rate and other relevant parameters and sends the data wirelessly to the mobile device. The spirometer device is powered by 5V DC through a USB micro connector and also has internal battery for power backup. The data acquired by the spirometer device can be used to obtain clinical consultation from the doctor or healthcare practitioners.



Charging Adaptor & USB Cable

3.0 Package Contents

- ✓ Spirometer
- ✓ Disposable turbine
- ✓ Nose clip
- ✓ USB charging cable for charging Spirometer

4.0 Instructions for safe use

Warning

- Read the user manual thoroughly before using the device.
- Exposure of the device to water is prohibited.
- Do not expose the device to strong shocks or vibrations.
- Do not disassemble, repair, or modify the device by yourself, hence this could void the user's authority to operate the device.
- Keep the device away from infants, small children or anyone who are incapable of using the device in appropriate manner.
- The nose clip and the disposable turbine used with the device are considered as disposable products.

Caution

- Do not reuse the turbine to perform test for another user.
- Do not use unauthorized parts and accessories.
- Do not store or use this device in locations which are maintained above the specified temperature and humidity ranges.
- Do not use in an operating theatre nor in the presence of inflammable liquids or detergents, nor in the presence of inflammable anaesthetic gases, oxygen or nitrogen.
- Do not expose the turbine to a direct jet of water or air, and avoid contact with high temperature liquids.

Care and Maintenance

- Store the device and the components in a clean and safe location.
- Charge the device for minimum two hours in case of first time usage.
- Do not disassemble, repair or modify the device and the components by yourself.
- Do not allow dust or foreign bodies to enter the turbine, in order to avoid incorrect functioning and possible damage.
- Presence of any impurities (such as hair, sputum, threads etc.) within the body of the turbine may seriously compromise the accuracy of the measurements.
- Wipe the device using 70% Isopropyl alcohol and let air dry.

5.0 Intended use

Spirometer (VA08)

Spirometer is intended to test lung function and perform spirometry testing to the people of all ages, excluding infants and neonates.

6.0 Prerequisites

Some basic requirements must be adopted as mentioned below to ensure better operation of the product.

- Spirometer device is designed to be operated with applications like Android, iOS or Windows.
- The Android OS version of the using computer/mobile device should be 4.0 or higher.
- The iOS version of the using computer/mobile device should be 7 or higher.
- The Windows OS version of the using computer/mobile device should be 8 or higher.

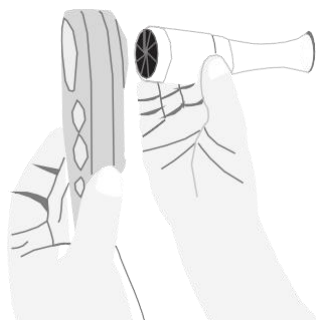
7.0 Using Mobile Application

Downloading and Installing Mobile application in your computer/mobile device

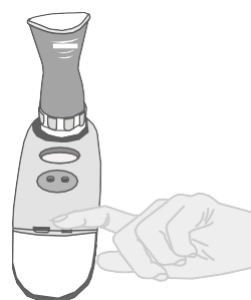
1. Download and Install the application from Play store/Application store/Windows application market.
2. On successful installation, launch the application in the mobile device.

8.0 Spirometer Measurement procedure

1. Twist and fix the disposable turbine to the spirometer as shown below.



Fixing disposable turbine



Switch ON

2. Ensure that the lines above the mouth piece should face towards top/bottom.
3. Switch ON the spirometer device using the slide button as shown above.
4. Launch the mobile application from the mobile device.
5. Choose the Spirometer option from the mobile application.

6. Provide default pairing password 1234 for pairing spirometer device with the mobile device (in case if it is requested).
7. Ensure that the Bluetooth LED stops blinking in the spirometer device and ready for measurement.
8. Fit the nose clip onto the nose of the user to ensure that air cannot escape through the nostrils.



Holding the Spirometer

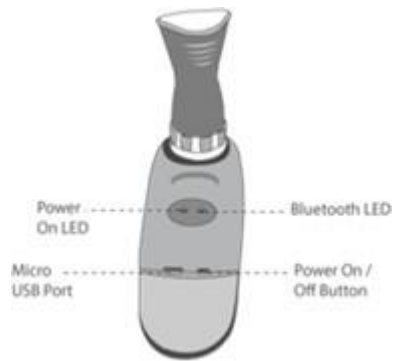
9. Hold the spirometer in one hand as the LED faces the user as shown above and also ensure that you are not covering the blow fan with your fingers.
10. Position straight and take a deep breath to fill the air in lungs and Insert the mouthpiece well into the mouth beyond the teeth, being carefully to ensure that air cannot escape from the sides of the mouth.
11. Exhale completely and followed by complete inhale.
12. If the measurement was successful the application would display the reading successfully. If the reading was interrupted or if the user has not used full effort then the app would ask the user to re-take the reading.
13. Remove the mouth piece from the mouth and then the user shall continue with the regular breathing.
14. After 4 or 5 seconds the results will be displayed in the application screen.

9.0 Charging the Spirometer

The Spirometer is operated with an in-built rechargeable battery, which can be charged using the power adapter and USB cable as guided below. It is mandatory to charge the devices for a minimum period of 2 hours before the first time usage. Kindly connect the devices to the power source, if low battery status is indicated in the mobile application screen.



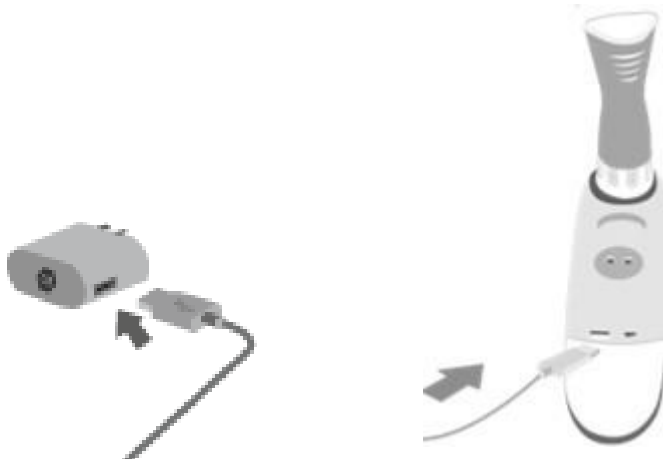
Power adapter & USB cable



Spirometer

Charging Procedure:-

1. Connect the USB cable to the power adapter.
2. Connect the micro USB port to the spirometer power port (USB port).











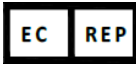








3. Plug the adapter to the AC mains (110V, 60Hz or 230V, 50Hz).



4. Switch ON the AC mains to charge the device.
5. Check whether the power indicator turns red while charging the device.

10.0 Explanation of Indicators/Symbols

Indicators/Symbols	Function/Description
	The indicator displays full battery power of the gadget in the computer/mobile device.
	The indicator displays low battery power of the gadget in the computer/mobile device.
	<ul style="list-style-type: none"> ○ Flashing of the Bluetooth light indicates that the gadget is waiting for pairing with the mobile/tab. ○ Steady Bluetooth light indicates that the gadget is paired and ready for the measurement.
	<ul style="list-style-type: none"> ○ Steady green light indicates that the gadget is operating in battery mode. ○ Blinking of green light indicates that the gadget has low battery level.
	Steady red light indicates that the gadget is in the charging mode.
	Symbol for "ENVIRONMENT PROTECTION"
	Symbol for "KEEP DRY"
	Symbol for "MANUFACTURER"
	Symbol for "MANUFACTURED DATE"
	Symbol for "SERIAL NUMBER"
	Symbol for "EUROPEAN REPRESENTATIVE"
	Symbol for "COMPILES WITH MDD93/42/EEC REQUIREMENTS"
	Symbol for "Federal Communication Commission"
	Symbol for "Read the documentation"
	Symbol for "Warning"

	Symbol for “Temperature limitation”
	Symbol for “Shock Protection”

11.0 Technical Specifications

Product Name	Spirometer
Model	VA08
Spirometer	
Unit Dimensions	145(H) x 45(W) x 10(T) mm
Unit Weight	100 grams (Including Battery)
Power Source	DC 5V 2A
Bluetooth	Bluetooth 4.0 EDR or Lower, Bluetooth Low Energy (BLE)
Operating Temperature	16°C to 35°C (60.8°F to 95.0°F)
Storage and Transport Temperature	10°C to 55°C (14°F to 131°F)
Storage Humidity	30%RH to 90%RH
Volume Accuracy	3% or 50mL
Flow Accuracy	5% or 200 mL/s
Flow Range	16 L/s

NOTE: *These specifications are subject to change without notice.*

12.0 Certifications

COUNCIL DIRECTIVE 93/42/EEC of 14 June 1993 concerning medical devices.

This device complies with the following normative documents:

- EN ISO 10993-1:2009/AC: 2010 Biological evaluation of medical devices- Part1: Evaluation and Testing with in a risk management process.
- EN ISO 10993-5:2009 Biological evaluation of medical devices - Part 5: Tests for in vitro cytotoxicity
- EN ISO 10993-10:2010 Biological evaluation of medical devices -- Part 10: Tests for irritation and skin sensitization
- EN ISO 80601-2-61:2011 Particular requirements for basic safety and essential performance of pulse oximeter equipment
- EN 80601-2-30:2010 Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers
- EN 12470-5:2003 Clinical thermometers - Part 5: Performance of infra-red ear thermometers
- EN 60601-1:2012 General requirements for basic safety and essential performance
- EN 60601-1-2-2007/AC: 2010 General requirements for safety -Collateral standard: Electromagnetic compatibility.
- EN 60601-1-6:2010 Collateral standard: Usability
- IEC 60601-1-4:1996 General requirements for safety- Collateral standard: Programmable electrical medical systems.



13.0 FCC compliance statements

This device complies with Part 15 of the FCC Rules. Its operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including Interference that may cause undesired operation.

FCC Caution

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Part 15B compliance statements for digital devices:

NOTE: *This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.*

This equipment generates, uses and can radiate radio frequency energy And, if not installed and used in accordance with the instructions, may Cause harmful interference to radio communications. However, there is no Guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television Reception, which can be determined by turning the equipment off and on,

The user is encouraged to try or to correct the interference by one or more of

The following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For more information kindly visit our website: www.amzbolt.com

Warranty Information

The B.O.L.T is warranted to be free from defects in materials and workmanship within one year from the date of purchase when used in accordance with the provided instructions. The warranty is extended only to the end user. The company will repair free of charge any part or parts of the product, if the defect is due to the faulty material or workmanship.

To obtain warranty service contact customer care support by calling 1800-572-4061.

Enclose the warranty card, Proof of Purchase. Include a letter, with your name, address, phone number, and description of the specific problem. Pack the product carefully to prevent damage in transit.

Customer Care Support

AmZetta Technologies Private Ltd `s flexible approach allows the customers to get Technical Support and Warranty services for B.O.L.T through our customer care support.

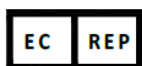
- Toll free number (India): 1800-572-4061
- Customer Care Support timings : 10am - 6pm Monday – Friday (Except National Holidays)

Contact us



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