



ONE-TOUCH WIRELESS HEALTH TRACKER

BODY LIFE TRACKER

Chest ECG

User Manual

Model: VA07

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Legal

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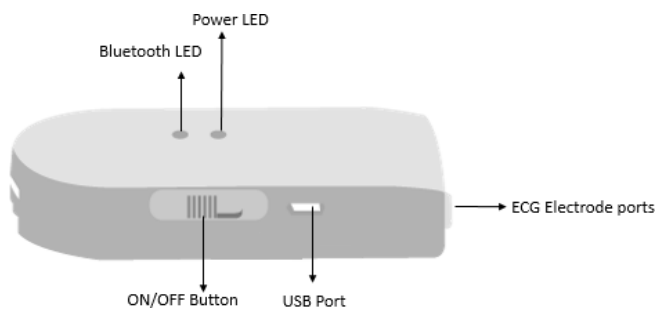
1.0 Overview

Model VA07 –Chest ECG

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

2.0 Introduction

Chest ECG device is a portable diagnostic system which can measure/monitor the electrical activity of the heart over a period of time using the ECG electrodes placed on the user`s body. The device monitors the ECG waveform from the Left & Right chest with a reference Electrode. The acquired and processed ECG data obtained from the device is transmitted to a mobile device wirelessly for further processing and analysis. The ECG data acquired by the device can be used to obtain clinical consultation from cardiologists or healthcare practitioners.



Chest ECG Device



ECG Electrode Cables



Charging Adaptor & USB Cable



Disposable ECG Electrodes

3.0 Package Contents

- ✓ Chest ECG Device
- ✓ ECG Electrode cables
- ✓ Disposable ECG Electrodes
- ✓ Charging Adaptor & USB cable for charging Chest ECG device

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.
- Remove the accessories in contact with body and switch off the units immediately, if any pain / irritation / discomfort is encountered while using the devices & consumables.
- Adhesives present in consumables like disposable ECG electrodes are free from any harmful substances. However if any allergic reaction / irritation is observed, remove the part immediately from human contact. Clean the area with a mild soap and water to remove any residual particles of adhesive.
- Keep the device away from infants, small children or anyone who are incapable of using the device in appropriate manner.
- Make sure that the ECG electrodes positioning place are clean shaved for accurate ECG measurement.
- Do not attempt self-diagnosis or self-treatment based on the measurements provided by the device.

Caution

- 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.
- Wrong positioning of the ECG electrodes may lead to inaccurate readings.

Care and Maintenance

- Store the device and the components in a clean and safe location.
- Charge the device for minimum two hours during first time usage.

- Do not disassemble, repair or modify the device and the components by yourself.
- Wipe the device using 70% Isopropyl alcohol and let air dry.
- Do not clean with ketones or other flammable agents.

5.0 Intended use

Chest ECG (VA07)

It is used to acquire the ECG parameters of adult users. The acquired ECG parameters can be used to obtain clinical consultation from cardiologists or healthcare practitioners.

6.0 Prerequisites

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

- Chest ECG 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

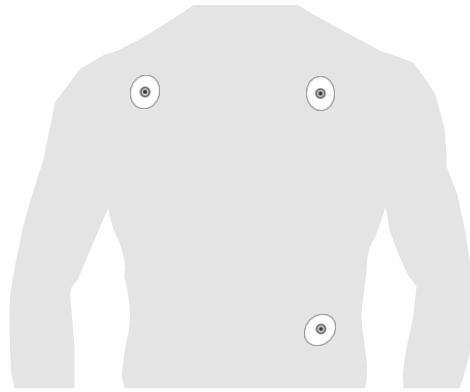
1. Download and Install the application from Play store/Application store/Windows application market.
2. On successful installation, launch the application in the mobile device.

8.0 Chest ECG Measurement procedure

1. Position the disposable ECG electrodes on the user`s body as shown below.

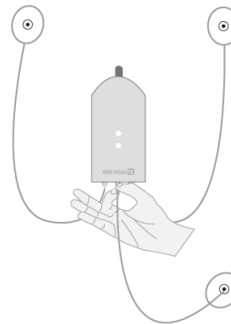
Note: Kindly replace all the 3 ECG electrodes incase of 24 hours usage. While replacing, do not place the electrodes on the same position. Instead, place it slightly away / adjacent to the previous location.

2. Ensure that the positioning spots of the human body are clean shaved.

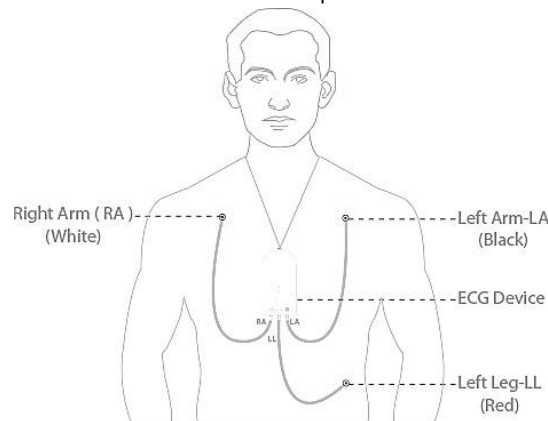


3. Connect the ECG electrode cables to the ECG device with appropriate matching color on connectors of the ECG device. RA is white color, LA is black color and LL is red color.

RA – Right Arm, LA – Left Arm & LL – Left Leg



4. Clip/button the ECG Electrode cable to the disposable ECG electrode as shown below.



5. Once the setup is connected ensure that the user is comfortable for the measurement.
6. Switch ON the mobile device, and Enable Bluetooth & Wi-Fi Internet Connectivity.
7. Launch the mobile application from the mobile device.
8. Switch ON the ECG device using the slide power button.
9. Blue LED on the ECG device will start blinking, which means that the ECG device is searching for Bluetooth device for pairing.
10. Scan and Select the corresponding ECG device (e.g. Chest ECG 01) from the displayed list (in case if it is requested).
11. Confirm the selection of the device.

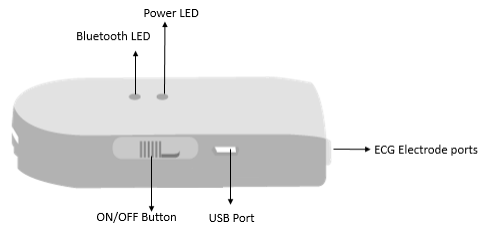
12. Select “ECG” option to perform the monitoring/measurement.
13. Provide default pairing password 1234 for pairing the ECG device with the mobile device (in case if it is requested).
14. Ensure that the Blue LED stops blinking in the ECG device and ready for the measurement.
15. Monitoring vitals data will be displayed within a couple of minutes in the application screen.

9.0 Charging the Chest ECG Devices

The Chest ECG 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.



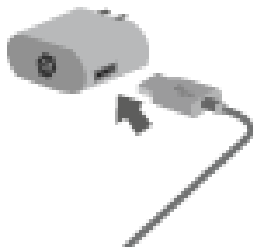
Power adapter & USB cable



Chest ECG device

Charging Procedure:-

1. Connect the USB cable to the power adapter.
2. Connect the micro USB port to the ECG device's power port (USB port).













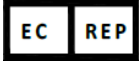






3. Plug the adapter to the AC mains (110V, 60Hz or 230V, 50Hz).



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		Chest ECG
Model		VA07
Chest ECG Unit		
Unit Dimensions		85 (L) X 40 (H) X 20 (D) mm
Unit Weight		45 grams (Including Battery)
Power Source		DC 5V 1A
ECG Channels		Single Channel
Input Dynamic Range		10mV Peak-to-Peak
Bluetooth		Bluetooth 4.0 EDR or Lower, Bluetooth Low Energy (BLE)
Circuitry		
Frequency Response		0.5 Hz to 40Hz
CMRR		120 dB
Input impedance		> 100 MOhm
Differential Range		+/- 5 mV
A/D Sampling Rate		500 samples/second
Resolution		24 bit
Power Requirements		
Power Source		DC 5V 2A
Battery Type		3.7 -850mAh Li-Poly Battery
Battery life		10 Hours
Environmental Specification		
Operational Temperature		+10 to +45 degree C
Operational Humidity		10% to 95% (non-condensing)
Storage Temperature		-20 to +60 degrees C
Storage Humidity		10% to 95% (non-condensing)

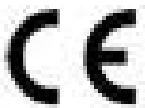
NOTE: These specifications are subject to change without notice.

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 ECG 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 ECG through our customer care support.

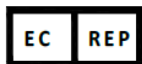
- Toll free number (India): 1800–572–4061
- Customer Care Support timings : 10am - 6pm Monday – Friday (Except National Holidays)

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