

## PECG HC3A250 User Manual

FCC ID:2AE6K-HC3A250

OTG USB Cable need to be used together with core.

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.

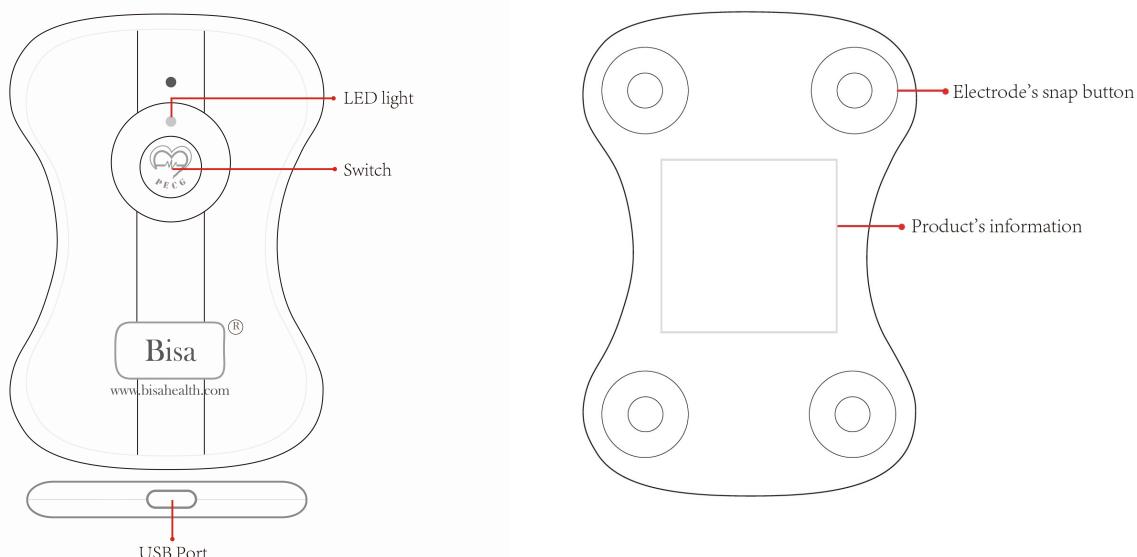
### 1. Introduction:

HC3A250 is a miniature wearable dynamic PECG recorder. HC3A250 may be used to record from 1 minute to **48** hours PECG ( or Holter monitoring), HC3A250 also has alert message function with alert message triggered by either panic button push, or heart beat stop. The HC3A250 should not be used for newborn baby weight less than 10kg. HC3A250 does not display pulse, or diagnostic function like heart rate algorithm and ST segment recognition function. The professional analysis ECG report (additional charge) would be provided by a third party.

#### Product basic information:

- 1) Product Name: PECG
- 2) Model No: HC3A250
- 3) Wireless function:BT 4.0 BLE
- 3) Production date: see the backside of the PECG
- 4) Expiry date: 3 years
- 5) Power: built-in rechargeable polymer lithium battery  
Nominal voltage: 3.7V  
Capacity 400mAh (1.48Wh)
- 6) Products and accessories:
  - a) 1pc X PECG
  - b) 12pcs X Single-use ECG electrodes
  - c) 1 x USB data cable (connecting from PC to PECG)
  - d) 1 x OTG USB Cable (connecting from mobile to PECG)
  - e) 1 x Warranty card / user manual
  - f) 1 x certificate

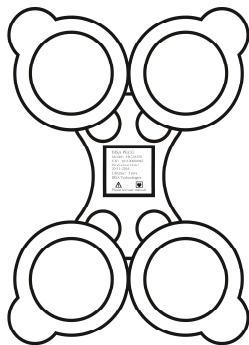
#### Structure Description:



## 2. How to use :

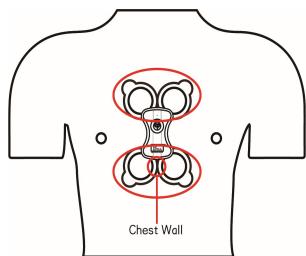
### 1) Preparing for device with electrodes

Put PECG in power-off state, assembly sticky patches called electrodes and remove the electrode protective films



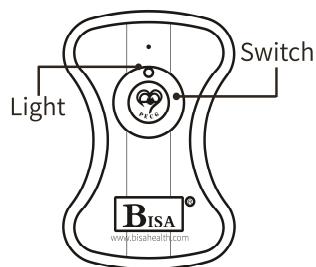
### 2) Wear PECG onto the chest

Prior to application of electrodes, suggested to shave or clean the body hair at electrode area (red oval area), thoroughly clean oily skin on the chest where the electrodes are placed, and keep the operation key of the PECG upward, and apply electrodes firmly to the skin. Make sure all electrodes are placed at site specified in the figure below, two electrodes in lower part of PECG should be placed on both sides of the chest wall where is nearly epigastric site.



### 3) Open PECG to start recording

Switch on PECG, press & hold button till green led light on, after a couple of seconds, the green light will flash and PECG data collection starts immediately.



### 4) Close PECG to stop monitoring

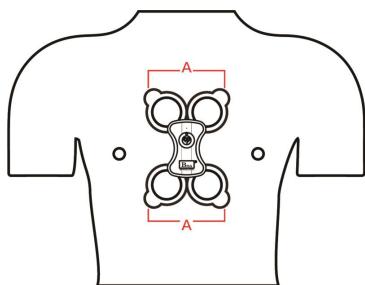
Switch off PECG, press & hold button continuously till green light on, after a few seconds, a green light flash turns

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off automatically, PECG data collection stops (normal use continuously 24 hours).

5) Remove PECG from chest

When data collection stops, press ECG with a hand (see below diagram), starting from point "A", remove electrodes from the chest slowly from outside to inside, and then pull out PECG & dispose of used electrodes into garbage bin. **DON'T** force to tear away electrodes from your chest to avoid any skin damage.



6) Upload data by mobile phone or PC

After data collection completed, remove the PECG and connect the PECG to the mobile phone through the OTG cable or connect the computer via the USB cable. How to upload the PECG data, Please refer to [www.bisahealth.com](http://www.bisahealth.com) for details.



7) Emergency Call: Push the "Switch" twice, yellow LED light will flash, the buzzer 3 times consecutively in 2 seconds, at the same time a short message would be sent to the emergency contact(s) via APP service . When push the Switch again , the buzzer stops the call.

8) Heart Beat Stop Alarm: If the user occurs cardiac arrest heart beating for few seconds, will enter into an alarm state, PECG will trigger an emergency call for help, yellow LED light will flash, the buzzer sound 3 times consecutively in 2 seconds, at the same time a short message would be sent to the emergency contact via APP service . When push the Switch again , the buzzer stops the call.

***Note: This electrode has passed biological evaluation of medical devices, but electrodes may cause some users like irritation, itchy or rashes to your skin, such users must stop using it immediately, remove electrodes and take out ECG, consult doctors for medical treatment if needed.***



## 3. Function Description:

### PECG status description

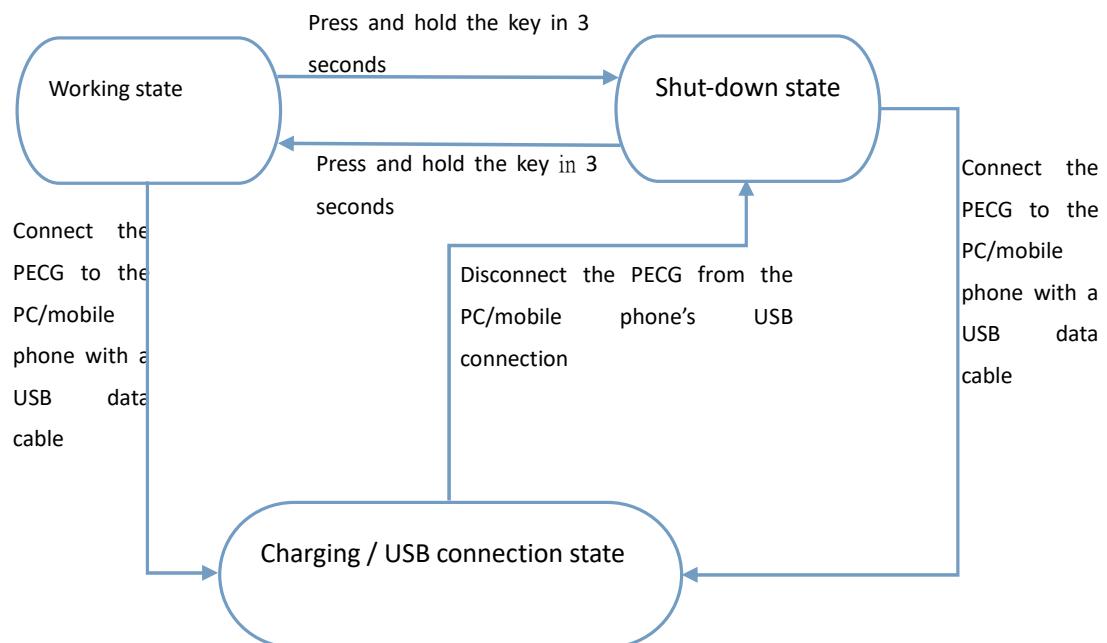
PECG has three states: working, shut-down and charging / USB connection. When the PECG is in the shut-down state, press the "Switch" for about 3 seconds and the green light will be on for about 5 seconds, then PECG will enter the working state. When the PECG is in working state, press the Switch key for about 3 seconds. The green light will be on for 3-5 seconds and the PECG will enter in shut-down state. When the PECG is in working state or shut-down state, connect the USB data cable to the computer, which can enter the charging and USB connection state.

When HC3A250 is in the charging / USB connection state, ECG data can not be collected.

The following table is a detailed description of the three states:

Status name	Status description	Indicator light, buzzer reminder
Working state	Enter this state, PECG data collection starts	When the PECG electrode is in good contact with the skin, the green light flashes once in 2 seconds;
		When the PECG electrode is in bad contact with the skin, the yellow light flashes once for about 2 seconds;
		The buzzer will sound once in 2 seconds when the battery is low
		Once user heart beat stopped for few seconds, the PECG will trigger an "Emergency Call", the buzzer will sound 3 times in 2 seconds. When push the switch again to cancel the "Emergency Call" & the buzzer sound.
		In this state, press the Switch key twice to trigger stop to help, the buzzer consecutively 3 times in 2 seconds, then press the operation button to cancel the alarm, the buzzer stops call.
Shut-down state	Entering this status, ECG data collection stops	—
Charging / USB connection state:	Entering this state, indicates that the PECG starts charging or charging while transferring data to the computer	During charging, the yellow light flashes once in 2 seconds
		The green light stays green when fully charged or charging is complete.

The three state switching modes are shown below:

**Cautions :**

- ◆ Please read the instructions carefully before using the PECG.
- ◆ Keep the PECG away from heat, moisture & water.
- ◆ Electrode is for one-time use only. Repeated use may cause skin infection.



Please do not disassemble and replace the battery, if necessary, please contact our authorized after-sales service department or dealer for processing.

## 4. Q & A:

Problem phenomenon	Possible Causes	Method of exclusion
PECG waveform disorder	Electrode and skin contact not good or sweating. Old or used electrode.	Make sure the chest skin is dry and clean and replace with the new electrode
The time in the PECG file name is incorrect	PECG battery completely exhausted, resulting in zero clock error	After charging the HC3A250, connect the computer to reset the PECG time in the setup window of the test software.
PECG device is connected with computer, but unable to detect the flash drive	The computer does not have a USB driver for the PECG	Install the PECG USB driver
PECG can not connect with PC	USB cable is damaged	Replace the USB cable
PECG issued a 'tick' sound	PECG battery is low	Recharge the PECG fully

### Symbol:

 Warning	Fail to observe the warning may cause seriously injury or death to the user. May also cause the PECG to partial or completely damaged .
 Note	Fail to observe the note may cause injury to the user. May also cause the PECG to work improperly.
	CF application part



## 5. Disclaimer:

- All data collected by PECG can not be used for medical diagnosis unless recognized by BISA authorized medical units, experts or doctors.
- The company will not take any responsibility for the misdiagnosis, misleading and loss caused by the self interpretation of the ECG data.
- The risk assessment based on ECG signals collected by ECG is not perfect. We will not take any responsibility for any loss caused by the Risk assessment which may affect user's health condition.
- The Company expressly disclaims any liability for loss of any direct, indirect or consequential damages caused by the PECG, including but not limited to loss of revenue, loss of profits, business interruption or loss of data, regardless of any form of action or legal claim of the liability, and even including any prior notice of any loss incurred.

## 6. Warranty, Return and Cancel Order:

- The warranty period is valid for one year from the date of shipment and is registered within 30 days by:
  - ◆ Complete the warranty card and mail to the Company
  - ◆ Online registration
- **Change of Order**  
Customers are prohibited to change the orders, the user selected shipping methods, recipient information, payment information and other order data once confirmed, shall not be modified.
- **Cancellation of order**  
No order cancellation is accepted except in the following exceptions:
  - ◆ product information is not clear, wrong or misleading, so that user made a wrong order;
  - ◆ due to the availability of the wrong supply state, so that user order an wrong out of stock product;
  - ◆ discontinued product or obsolete product
- **Return principle**  
If your goods need to be returned due to quality problems, please contact customer service within 7 days after the date of receipt of the goods (subject to the date of receipt and delivery) and return the goods under the guidance of customer service. The goods shall be returned with the original package and without affecting the secondary sale.

The following circumstances will not be accepted:

- ◆ damage to the product due to improper use;
- ◆ if the product quality problems, can be a replacement;

If the user found that the product is in the following cases, please contact BISA customer service team immediately, request a return, and provide order number, return reason, contact method. BISA will handle the replacement procedures as soon as possible. The user should keep the order receipt as return notification. The shipping fee and freight cost are borne by the customer. The customer must send the returned goods by registered or courier. The Company will not take any responsibility for any packages lost in transit.



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- ◆ Quality problems: goods are defective products with obvious quality problems
- ◆ Wrong delivery: delivered the wrong product;
- ◆ Mailing error: postal delivery error, mistakenly delivered an incorrect product

## 7. APP Use

Simply scan APP QR Code fast with your smartphone and install this application on your mobile device. For more details, please visit our website [www.bisahealth.com](http://www.bisahealth.com)

APP QR Code



Web URL QR Code





## 7. Product warranty card:

<b>Warranty Card</b>	
<i>Product No./Name:</i>	<i>Customer Name:</i>
<i>Date of Purchase:</i>	<i>Customer Address :</i>
<i>Shop Name:</i>	<i>Zip Code :</i>
<i>Shop Address:</i>	<i>Phone No. :</i>

### FCC statements:

This device complies with part 15 of the FCC rules. 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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

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 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.

Federal Communication Commission Radiation Exposure Statement

PECG(Model No:HC3A250) has been evaluated to meet general RF exposure requirement, PECG(Model No:HC3A250) can be used in portable exposure condition without restriction