

# CLOUD SMART THERMOMETER

## USER MANUAL

### 【Product Name】

Cloud Smart Thermometer

### 【Model】

WT001 Series

### 【Specifications】

#### 1. Measuring Specifications

(1) Range: 25.0°C~40.0°C

(2) Accuracy:  $\pm 0.1^{\circ}\text{C}$  at 36.0~40.0°C,  $\pm 0.2^{\circ}\text{C}$  at other temperature range

(3) Unit: °C or °F

#### 2. Battery

Button battery CR2025

#### 3. Operation Distance

Fifteen meters in a barrier-free environment

#### 4. Mechanical Specifications

(1) Weight: 6.0g

(2) Dimension: 49.5\*35.0\*6.5mm

#### 5. IP Rating

IPx6: Support washing

#### 6. Operation Specifications

1、Working current: 0.65mA

2、Working voltage: 3V

#### 7. Operation Conditions

The temperature of the operation environment should be 0°C~+ 50°C, the humidity should be 15%~85%(non-condensing) and barometric pressure should be 860hPa~1060hPa, and avoiding long-term operation at high temperature, humid or direct sunlight environment.

### 【Operation Principle】

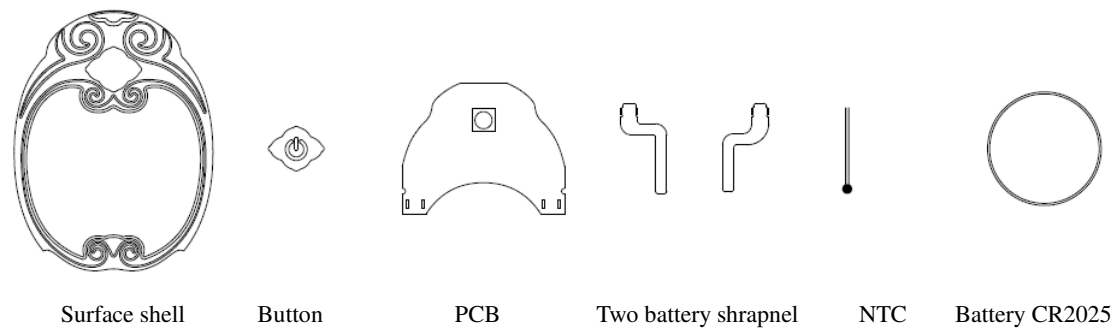
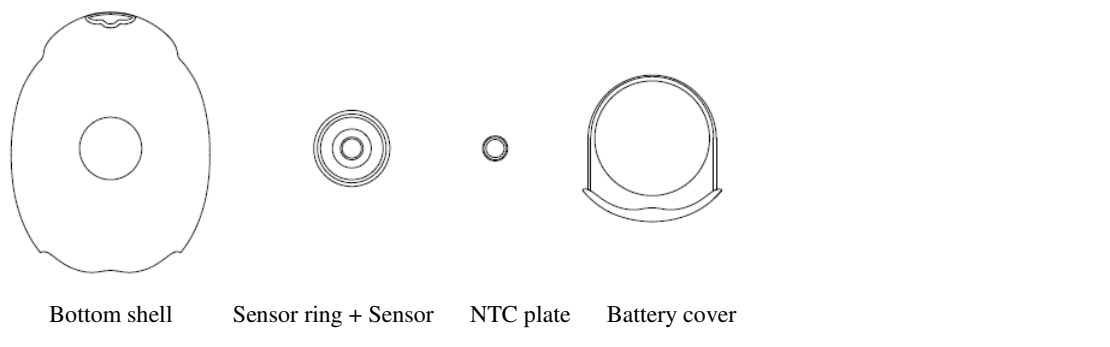
Firstly, the thermistor which is at top of the measuring part works as a temperature transmitter. Secondly, while the target temperature changes, the value of the

thermistor will change with it. Meanwhile, Bluetooth chip will calibrate and deal with the value of the circuit thermistor, the Bluetooth chip will transmit the temperature data and changing curve to mobile device for display through Bluetooth connection.

## 【Main Structure】

The Smart Thermometer is mainly composed of a host, temperature probe, battery and medical stickers (while temperature probe is composed of a sensor ring and a sensor).

Product composition is as follow:



## 【Accessories】

Cloud storage thermometer \* 1



User manual \* 1



Medical stickers \* 10

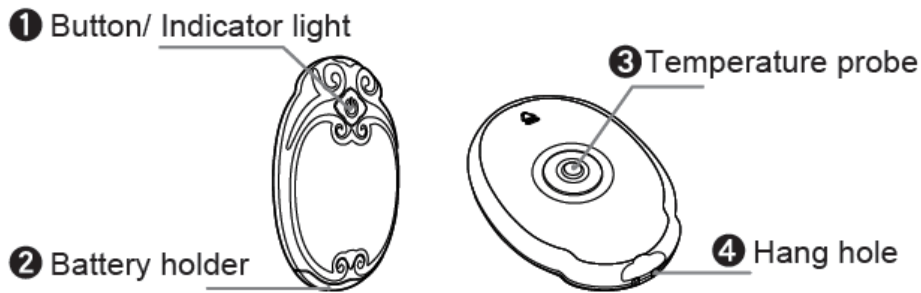


Battery \* 1



Thermometer decals \* 1

## 1. Parts



### 【Instructions of Accessories, Consumables Replacement Cycle and Method】

(1) Medical stickers\*10, Decals\*1, after running out of the accessories, please purchase the accessories at our online store. Detailed installation guidance please refer to 'Wearing description' .

(2) For CR2025 button battery, when the device shows low battery capacity, please replace the battery according to the manual operation guidelines. Detailed installation guidelines please refer to 'Upload Battery' .

### 【Features】

- Support 24 hours continuously monitoring of temperature change (data measured every 4 seconds), shown as temperature curve drawing.
- With high accuracy, auto high temperature alert, prompt actions on health risks, easy for you to work and sleep without worries.
- Perfect waterproof design.
- Small and easy to use, with only 6.5mm of thickness
- Low power consumption Bluetooth wireless transmission. With iOS or Android App for smart temperature measuring.
- Specialized App design for parents, easy to use.
- Data storage by cloud service, continue saving human temperature data (Remote monitor function after registration and log-in)
- Smart power supply management with low power-consumption, auto turn off when lower than human temperature
- History data saved long as 24days, while data exceeds this time be saved to cloud.

- Support platforms of iOS 6.0 or above, Android 4.3 or above, support devices including smart phones, Pads, TVs
- Auto alert through voice and message when real-time temperature exceeds the self-defined temperature.
- Bluetooth anti-loss function
- Support remote connection and multi-user sharing.

### **【Intended Use】**

For human body temperature measuring used by family and medical institutions.

### **【Installation Guidelines】**

1. Please scan QR code below to download the software according to relative OS:



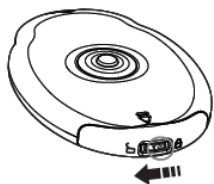
iOS



Android

2. Upload Battery

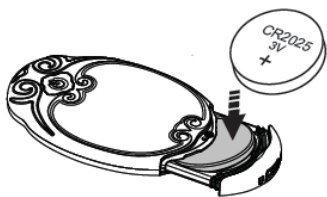
1、Unlock the battery holder in correct direction as showed.



➔ 2、Pull out the battery holder as showed direction.



3、Push in the battery holder with battery in the positive pole.



➔ 4、Lock the battery holder in correct direction from ① to ②.



### 3、Build Connection



- \* Long press on the button for 2 seconds, as the indicator light blinks, the thermometer is on.
- \* Long press on the button for 5 seconds, as the light blinks, the thermometer is off.
- \* Open the App in mobile device, select the cloud storage smart thermometer, and build the connection.

### 4、Wearing Description



1. Peel off the sticker.



2. Place the thermometer according to the pattern.



4. Remain the arm holding tight at least for 5 mins before connection building.



3. Build connection between the thermometer and mobile device.

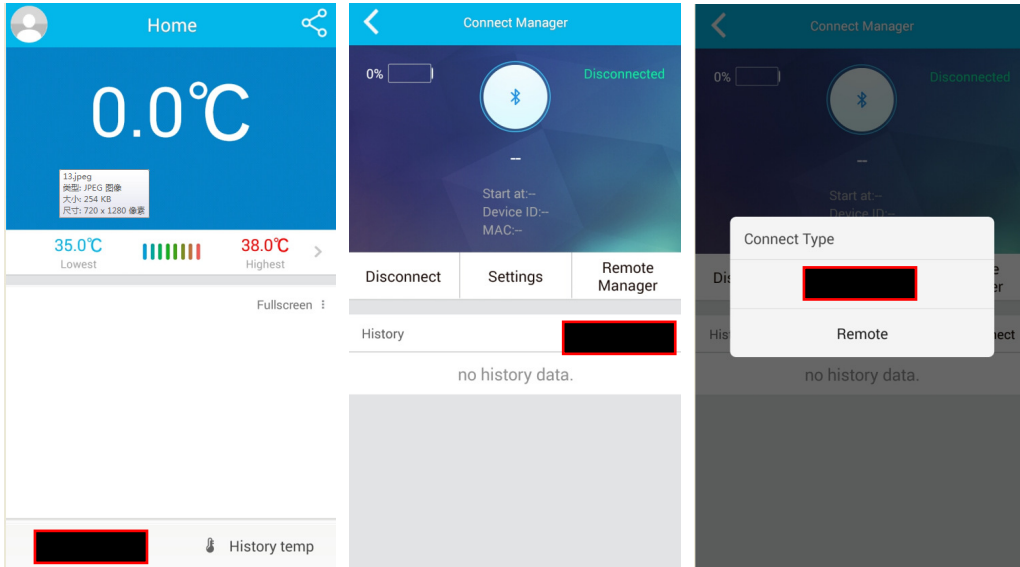
## 【App Instructions】

Example: Android devices

# 1. BT connection

## (1) Connection

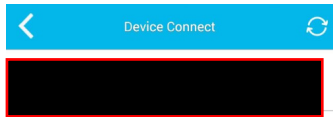
- For first connection, please directly click ‘Connect’ → ‘Device Connect’
- If not first time connection, please follow steps as below:



## (2) BT search page

After click ‘Device Connect’ , there would be a device search page, search relative device and build the connection.

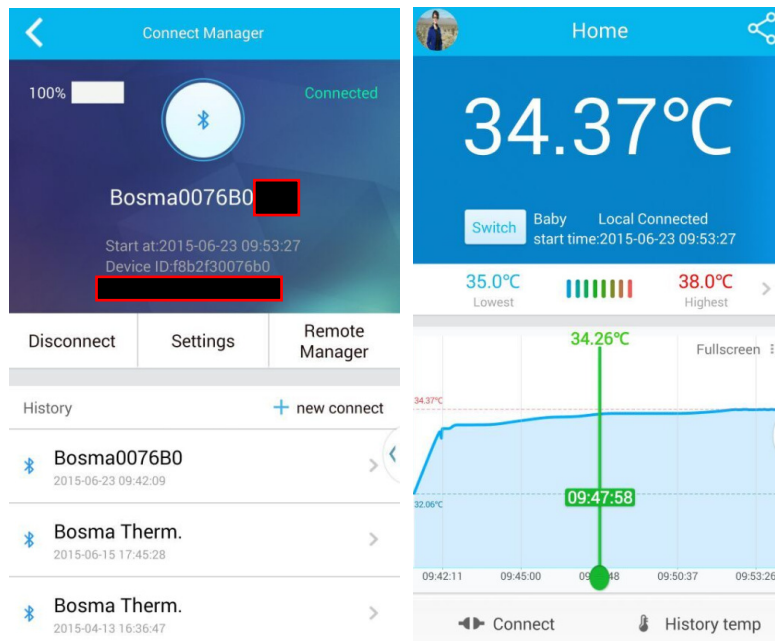
Notice: The initial name of the thermometer is ‘Bosma Therm.’ , please confirm the right device according to the mac address under the device name.



## (3) BT connection success page

After successful connection, the page will show a Bluetooth connection logo at ‘connected’ status, the battery level, connection time, and the ID, mac address. User can confirm whether connection is with right device according to mac address. User can also modify the device name by clicking the thumb on the right. Click the

left corner to return to homepage. Check out the temperature value and the curves, or click the 'Fullscreen' to check out the temperature curves.



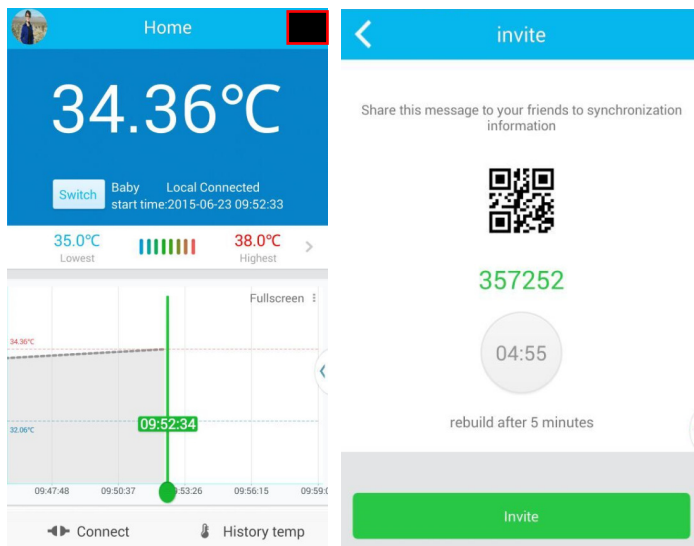
## 2. Remote Connections

### Guidelines:

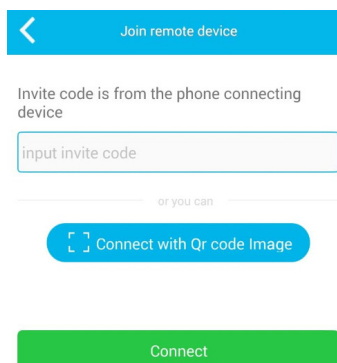
- To use the remote connection, please login first. Details of User Sign up/Log in please refer to Point5.
- Remote connection requests two smart phones to use simultaneously, one smart phone with connected Bluetooth sends out the remote connection invitation, meanwhile the other smart phone builds the remote connection.

Logged users with Bluetooth connected smart phones can send out invitations to other users, so other users can conduct data remote monitoring, details as below

- Remote connection invitation: Click the share button showed below to user invitation page, after the invitation code generated, send the code to other users that request remote connection.



- Remote connection: On first page, user click 'Connect' → 'new connect' → 'Remote', enter the remote connection page and join the remote connection by input the invitation code. After successfully join the remote connection, directly join the remote connection with no need to input invitation code.



- Remote management: Logged users with Bluetooth connected smart phones enter the 'Remote Manager', manage the admission of remote connection. 'Open connection' is on in default. Other devices can join by input invitation code. If it's shut off, other devices could not join the connection. The list is users that have joined the connection with no need to input invitation code. You could delete the list as you want. If user is deleted from the list, he/she would need invitation code to join again.

### 3. High Temperature Alert



(1). Alert temperature setting

Click the 'Lowest' 'Highest' to set the alert temperature on first page.



(2). Alert page

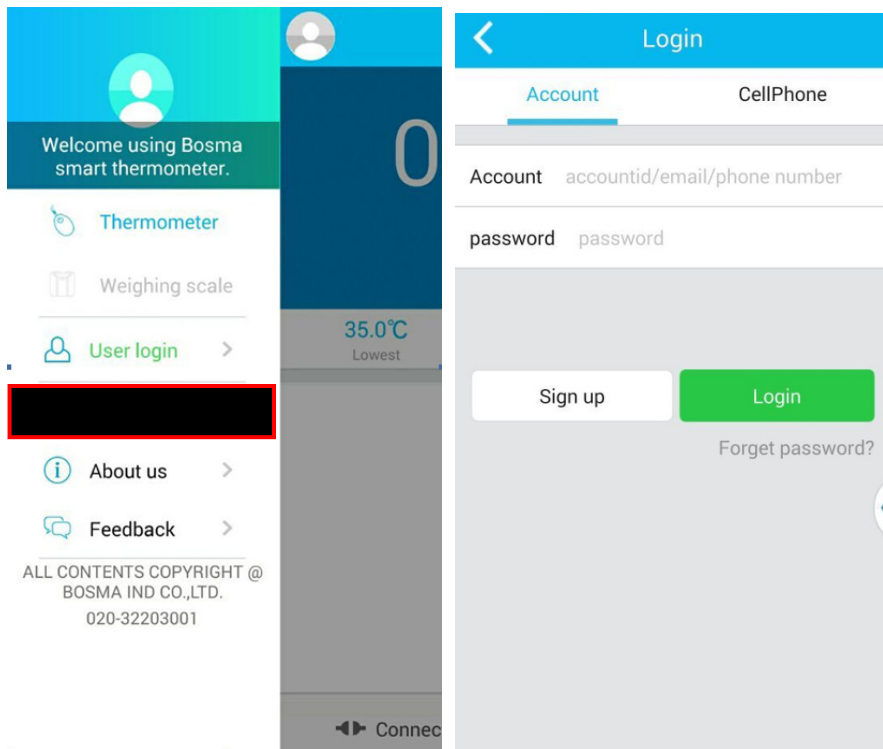
When temperature exceeds the setting highest temperature, the alert page will pop up, user can slide the bottom page to turn the alert off. On the temperature curve, the temperature values that exceeds the alert temperature will be showed in red.

**4. Temperature History**

Click the bottom 'History temp', click the date icon to check the previous temperature curve.

**5. Login/Sign up**

On first page, click the avatar on above left corner to enter sidebar, click 'login' to enter login page, if you haven't got an account yet, please click the 'Sign up' to get a new account.



## 6. Switch/Add/Modify/Delete family members

Notice: Only logged users with Bluetooth connected smart phones can conduct this step. Click 'Switch' button to enter family member page.



- On the family member list, the member with green light spot is the monitoring member, you can click other members to switch.
- Click '+' beside the 'family member' to add family members.
- Click the right little arrow to modify family member info.
- Long press on family member to delete.

## 7. Set-up

### (1). App Setting (Sidebar -> Setting)

- Anti-loss alert: Enter the Setting, turn on/off the anti-loss mode. After turn on, if the thermometer away from the mobile device with Bluetooth distance, the mobile device will alert.
- Temperature unit switch: °C or °F
- New version: If there are a new version, the App could be upgraded.

### (2). Device Setting (When the device is connected, Connection→Device Setting)

- Bluetooth sending frequency: The frequency of data saved to cloud when the thermometer disconnected with mobile device. After the thermometer re-connect with mobile device, the cloud data could be automatically downloaded for curve drawing. There are 3 optional mode of Bluetooth sending frequency: Accuracy Mode (data saved every 4s), Power Saving mode (recommended) (data saved every 60s), Ultra Power Saving Mode (data saved every 120s).
- Time synchronization: Set time synchronization between thermometer and the mobile device.
- Device Firmware Upgrade: Upgrade the firmware of the thermometer.

## 【Caution, Warning & Tips】

### **Caution:**

- 1、When in use, probe on the thermometer need to be touched fully with skin.
- 2、To avoid external temperature interference, please use this product indoors and try to keep yourself at calm status.
- 3、Please cooperatively use the accessory medical stickers, if there' s any discomfort or allergy symptoms, consult a doctor and replace stickers if necessary.
- 4、If the measure result comes with a fever during measuring, please go to a doctor in time. This product is only used for temperature measuring and without therapeutic properties.
- 5、For long time of measuring, skin should be paid attention whether there' s any allergy symptom, if yes, the measuring should be stopped immediately.
- 6、Except for battery replacement, please do not disassemble any parts.

- 7、 Please prevent the thermometer from drop or beat.
- 8、 Please remove the button battery if the thermometer is not on use for long term (two months or above).
- 9、 Please save the thermometer out of reach of children.
- 10、 This product could not be heating cleaning, please clean it with 75% concentrated medicinal alcohol.
- 11、 If you notice any damage on the shell, sensor or other parts, please stop using the device immediately.
- 12、 This thermometer need to be used with the corresponding App developed by our company, if there' s any connection problem, please read this user manual carefully or contact us.
- 13、 Adults shall clean the body hair that may interference the temperature sensor part before using.

 **Warning:**

- 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.
  - (2) This device must accept any interference received, including interference that may cause undesired operation.
  - (3) The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user' s authority to operate the equipment.

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: 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.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

- No sterilization or high temperature sterilization is allowed.
- If you notice any damage on the temperature sensor, please stop using the device immediately.
- It may damage the thermometer, reduce the use life or lead to safety risks if use other disinfectant except for alcohol.

### **【Contraindication】**

- Those with heart pacemakers are prohibited from use.
- Those with injury on armpit or chafing are prohibited from use.

### **【Maintenance & Preservation】**

(1) Please clean the probe side surface with 75% concentrated medicinal alcohol before using.

(2) To maintain a good status of the thermometer, please clean the surface of the device with 75% concentrated medical alcohol after use it, and place the device in ventilated place.

## 【Special Storage, Transportation Condition, Means】

The temperature of the storage environment should be  $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$ , the humidity should be 15% - 85%(non-condensing) and barometric pressure should be 860hPa - 1060hPa. The device should be stored in ventilated place and away from corrosive gas, high temperature, humidity, or direct sunlight.

The temperature of transportation environment should be  $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$ , the humidity should be 15%  $\sim$  85%(non-condensing) and barometric pressure should be 860hPa  $\sim$  1060hPa. In the process of transportation, please hold the product gently and avoid exploding the product to the sunlight or rains.

## 【Repair】

### Warranty

(1)The cloud smart thermometer is warranted from manufacturing defects for one year from date of retail purchase.

(2)The free repair service does not cover the damages resulting from personal reasons listed as below:












- a) Damages resulting from unauthorized adjustment and repair.
- b) Damages resulting from dropping to floor during use or transportation.
- c) Damages resulting from inappropriate maintenance.
- d) Damages resulting from misuse by not following guidelines of under manual.

(3)When apply for free repair service, please hold the Warranty card and purchase proof of purchase date.

### (4) Warranty Card

|                                 |                             |
|---------------------------------|-----------------------------|
| <b>Warranty Card</b>            |                             |
| <b>Model Purchased:</b> _____   | <b>Customer Name:</b> _____ |
| <b>Date of Purchase:</b> _____  | <b>Address:</b> _____       |
| <b>Store of Purchase:</b> _____ | <b>Post code:</b> _____     |
| <b>Address:</b> _____           | <b>Tel:</b> _____           |
| <b>Chopped by Store</b>         |                             |

## 【Symbol Definition】

|  |   |   |  |
|--|---|---|--|
| <br>Read user manual before use | <b>IPX6</b><br>Waterproof level is 6  | <br>The WEEE symbol          | <br>Notice, Warning, Attachment reference |
| <br>This Way Up                 | <br>General restrictions | <br>Keep dry                 | <br>Use limit                             |
| <br>In Shade                    | <br>Manufacturer         | <br>Decomposition Prohibited | <br>Prohibited from heat or radiation     |

**【Manufacturing Date】**

**【Validity】**

**【Registrar】** GUANGZHOU BOSMA TECHNOLOGY CO., LTD.

**【Registration Address】** Floor 2<sup>nd</sup>, Building A5, No.11, Kaiyuan Avenue, Science Park, Guangzhou Hi-tech Industrial Development Zone, Guangzhou City, Guangdong Province, P. R. China

**【Manufacturer】** Guangzhou Bosma Technology Co., Ltd.

**【Manufacturer Address】** Floor 2<sup>nd</sup>, Building A5, No.11, Kaiyuan Avenue, Science Park, Guangzhou Hi-tech Industrial Development Zone, Guangzhou City, Guangdong Province, P. R. China

**【Post code】** 510530

**【Contact】** +86-20-3220 3001

**【 Fax 】** +86-20-3220 3099

**【After-sales Service Provider】** GUANGZHOU BOSMA TECHNOLOGY CO., LTD.

**【User Manual Modification Date】** 12<sup>th</sup> Mar. 2015