raycome

# Pulsewave Blood Pressure Monitor

# BP550D/BP550DB/BP550D-H/BP550DB-H

# INSTRUCTION MANUAL


**Shenzhen Raycome Health Technology Co., Ltd**

Dear Customer,

Thank you for purchasing the products of Raycome Health. In order to use the device correctly and efficiently, please read this Instruction Manual before use; also you should take good care of the instruction manual so that you can use it expediently and timely when need.

Version No: V1.0

The contents of the manual may change without prior notice.

This product is suitable for measuring systolic blood pressure, diastolic blood pressure and pulse rate for adults, the values can be used for diagnostic reference.

.

**NOTE:**

1.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.

2.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.

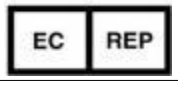
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

3.The manufacturer is not responsiblefor any radio or TV interference caused by unauthorized modifications to thisequipment. Such modifications could void the user’s authority to operate theequipment.

CONTENTS

# SYMBOLS AND ABBREVIATIONS

| Identifiers | Indications | |
|---|---|---|
| CE 0482 | This product complies with the EU Medical Regulations (Regulation (EU) 2017/745) | |
|  | BF TYPE | |
|  | Class II equipment | |
|  | Lot number | |
|  | Serial number | |
|  | Date of manufacturer | |
|  | Manufacturer | |
|  | Authorized representative in the European Community | |
|  | Consult accompanying documents | |
|  | Dispose of this product and used batteries in accordance with the applicable local regulations for disposal of electrical product. | |
| **IP21** | Degrees of protection provided by enclosures: Protect against solid foreign objects of 12.5mm diameter greater and vertically falling water drops. | |
|  WARNING | It indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. | |
|  Caution | It indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the equipment or other property. | |
|  | RF transmitter device is included | |
| SYS | SYSTOLIC PRESSURE | |
| DIA | DIASTOLIC PRESSURE | |
| Bluetooth Module (Apply to BP550DB, BP550DB-H) | Frequency | 2402MHz—2480MHz |
| | Modulation type | GFSK, π/4 PSK, 8DPSK |
| | Effective radiant | -6dBm—+4dBm |

| | | |
|---|---|---|
| | power | |

## WARNING

1.Seft-diagnosis and treatment using measured results is very dangerous and may delay the treatment time or disease progression. Please follow the instructions of your doctor.
2.This product is only suitable for measuring blood pressure and pulse rate of adult, its value is for reference. This product is unsuitable for newborn.
3.Pregnant women and mental disorder should use this device under practitioner's guidance.
4.Be sure to use and purchase a dedicated USB cable.
5.When common arrhythmias (such as atrial premature ventricular premature and atrial fibrillation)appear, use this product under a doctor's guidance.
6. Users are not allowed to replace components without permission, and the manufacturer will not supply after- sales services if users violate this rule.

## CAUTION

1.This product is suitable for measuring systolic blood pressure, diastolic blood pressure and pulse rate for adults, the values can be used for diagnostic reference.This product is unsuitable for newborn.
2.Do not use the cuff when arm is wet or sweaty, please use it after wiping up.
3.Operate the device only as intended. Do not use the device for any other purpose.
4.Do not soak the unit or cuff in water.
5.Only the authorized or trained personnel by the manufacturer can maintain the device. Any unauthorized personnel should not assemble or disassemble the device.
6.Do not use a cell phone, interphone and other wireless communication
7.only use Raycome Health authorized parts and accessories.Parts and accessories not approved for use with the device may damage the unit. Be sure to use and purchase a dedicated double-bladder cuff, or you cannot get accurate results.
8.Repeat measuring the same person with an interval of at least 5 minutes because too frequent measurements can cause injury to you due to blood flow interference and get incorrect measurements.
9. Do not shock or drop the monitor, or it may damage the device.
10. Do not allow liquid or other things into the product.Otherwise it may cause product failure or electric shock to personnel.
11.Do not store or use the device outside the specified temperature or humidity range, it may not achieve the claimed performance. Operating temperature and humidity: 5°C ~40°C,15%RH~80%RH; Storage and Transportation Temperature and Humidity: -20°C~+55°C,≤93%RH.
12.DualCuff should not be overly persistent, and the pressure should keep below the value of 300mmHg, or it may cause arm blood be unable to timely reflow. Please press“⏻”to exhaust.
13.1f the user feels discomfort in the arm during pressurization or in other mergencies,

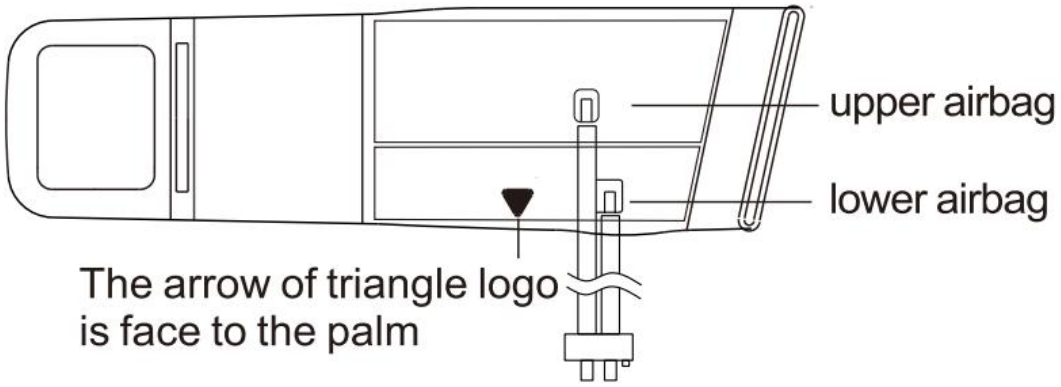
press the“⏻”button to stop the blood pressure measurement.
14.The service life of this product is 5 years; please find the production date in the unit label or on the box. If the monitor achieved longevity, do not arbitrarily discard it, it should be processed according to the local environmental protection regulations in order to avoid environmental pollution.
15. Do not touch the USB port and the patient at the same time.
16.5 min should elapse before the first measurement is taken.
17. Avoid compression or restriction of the airtubes.
18.The cuff is classified as consumables.

- **ADVICE**

1.In shutdown status, please press the button“☼”and"📝" at the same time, then press the button"⏻" about 1 second. Finally loose the button"⏻","☼"and"📝"at the same time, the blood pressure monitor will enter into"P" mode. Please do not unnecessarily perform the operation, or it may not measure normally.
2.Calibration should be made every three years. Otherwise the device may reach less than the claimed accuracy.

## COMPONENTS OF THE PRODUCT

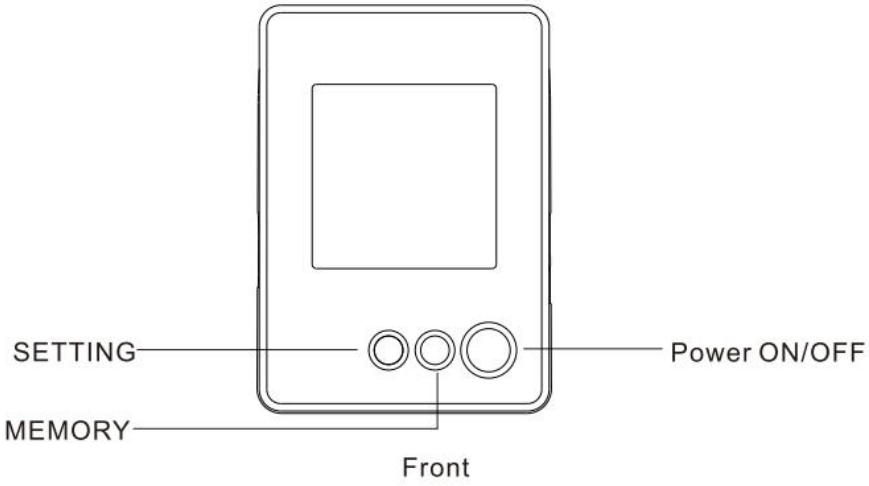
Two airbags for the cuff

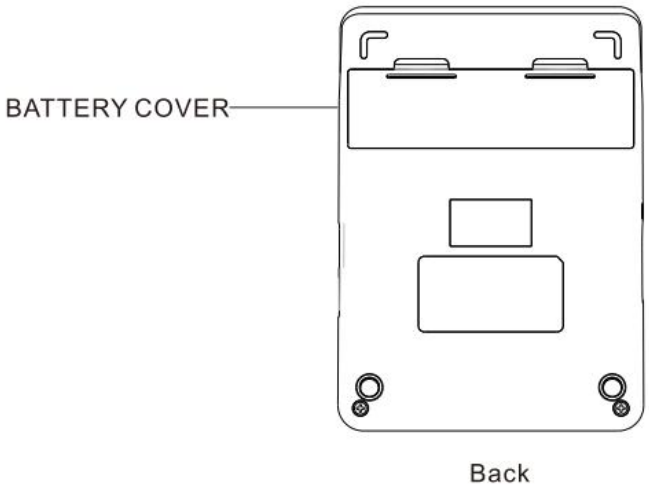


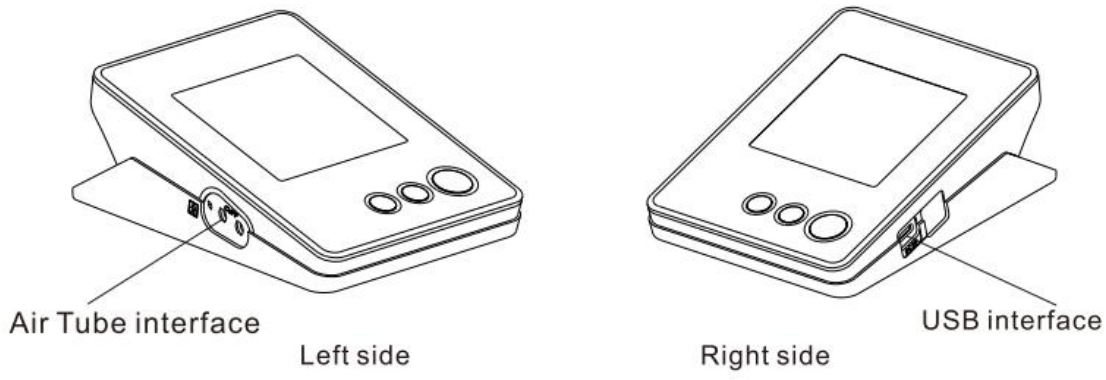

Cuffs specification(Applicable Arm Circumference):
Size S: 15cm-22cm(5.9"-8.7")
Size M: 23cm-32cm(9.1"-12.6")
Size L: 33cm-42cm(13.0"-16.5")
The above three sizes of cuffs can be purchased separately,the standard configuration cuff size is 23cm-32cm(9.1"-12.6").
Cuffs are consumables. Please replace if any damages occur.
Different sizes of cuff are optional. Different arm circumference users, please select the appropriate size of the cuff, avoid inaccurate measurement results。 Please refer to packing list which indicates which size packed.

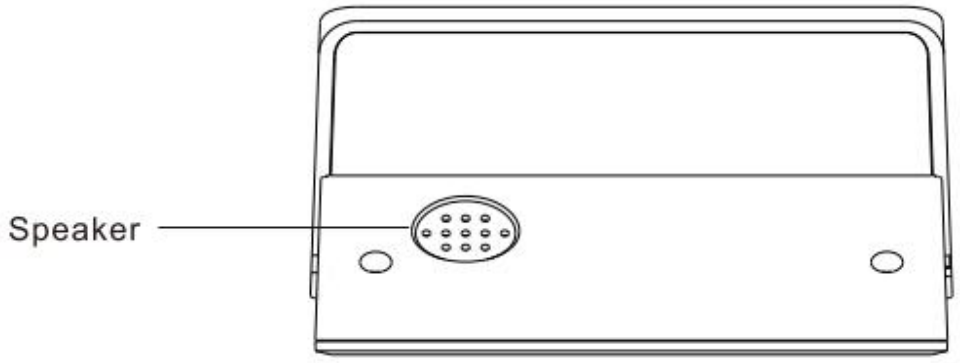
The cuff still meets safety and performance requirements after cycle use for 10000 times;
* Please replace the cuff in time to have correct blood pressure measurement.
* Please purchase a new cuff for replacement if there is air leak.

## Main Unit:



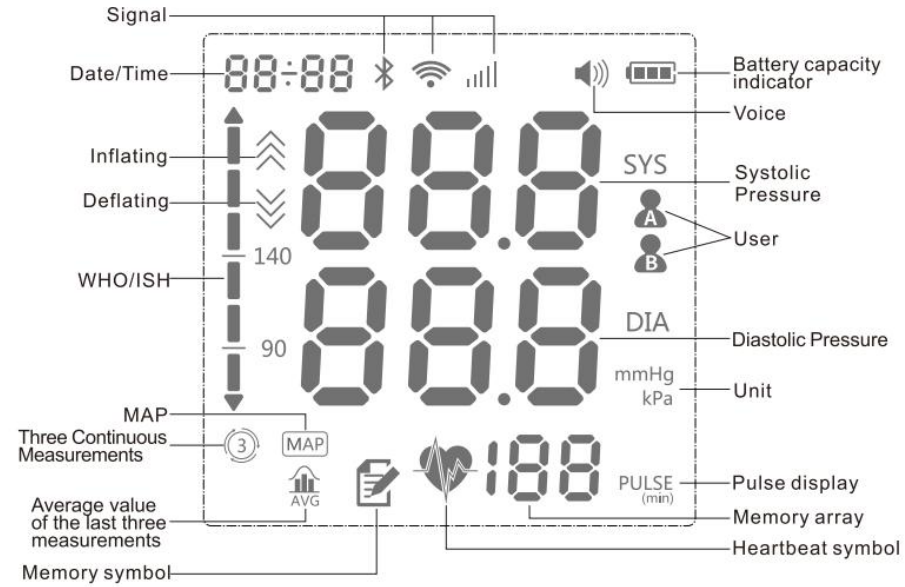






Back view

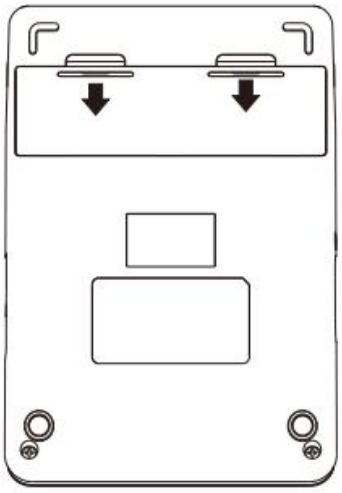
**Display:**




## THE BATTTERY INSTALLATION

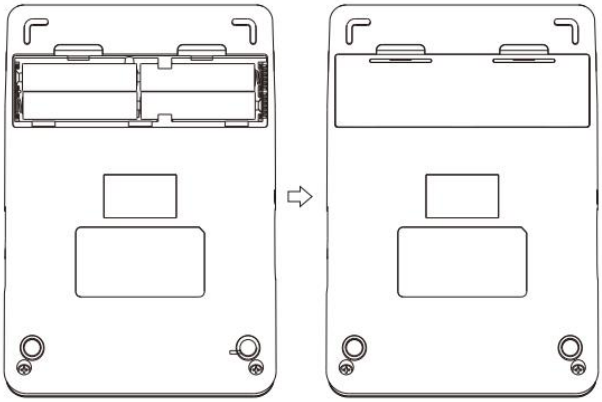
Please make sure that the batteries are installation inside the BP Monitor before measurement.

1. Pull the battery cover in the direction of the arrow.



2. “⊕”as positive pole，“⊖”as negative pole.

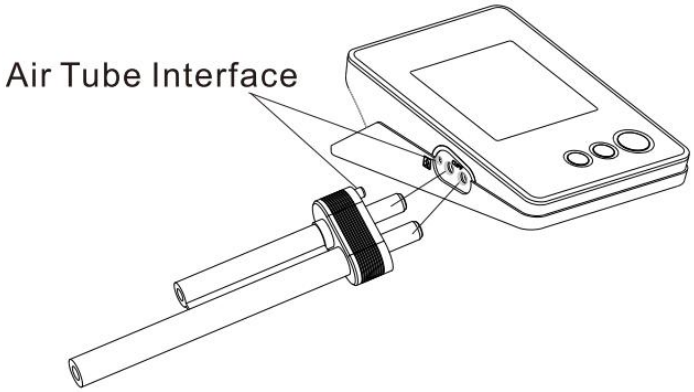
3. Install 4pcs AAA batteries in the right directions, then install the battery cover tightly. As shown in the following figure:



●When the “▭”or“LOP”prompt appears in the upperright corner of the screen, it indicates that the battery level is low. Please replace all 4pcs new AAA batteries.
●Please turn off the device before removing the batteries.
●When replacing or removing the batteries, the stored memory measurement values will not disappear.
●Batteries are hazardous waste, please do not dispose of them in household waste bins. They should be disposed of in accordance with local environmental protection regulations.
●If you do not use the blood pressure monitor for a long time (more than 3 months), please remove the batteries,otherwise it may cause batteries leakage and damage The blood pressure monitor host.

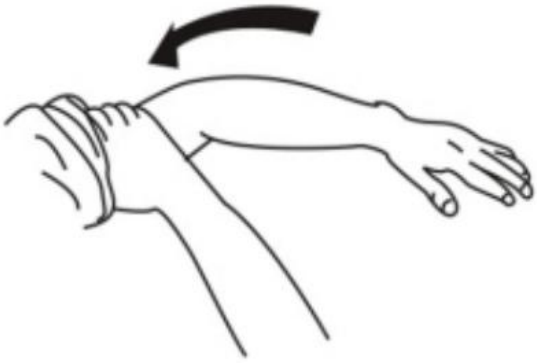
## APPLYING THE CUFF

1. Make sure the two air plugs are separately inserted into the corresponding socket in the main unit.

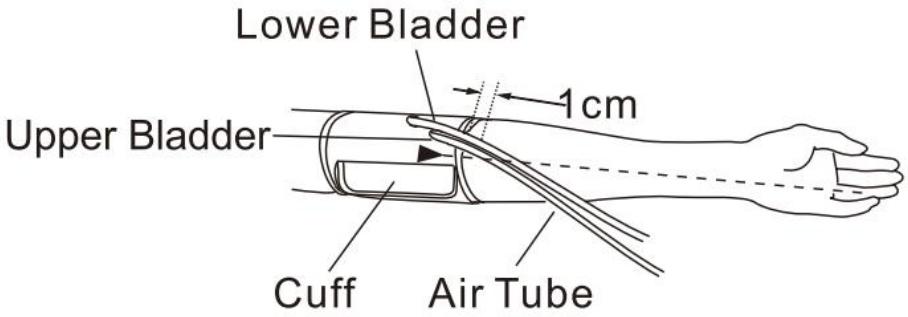



⚠NOTE: The DualCuff must be fully exhausted before plugging in the unit.

2.Take off the thick garments and the cuff has to be applied on the bare skin. Thin clothing does not affect the measurement if it does not take pressure to the arm.



3. Put your arm through the cuff loop. The tubes should run down centre of arm approximately even with middle finger. Then strain the cuff end and stick the nylon Velcro in medium elasticity.




⚠NOTE:Do not put your clothes into cuffs and the bottom of the cuff should be approximately 1 cm above the elbow.

Remarks:

1.Regarding the application of the cuff over a wound: this can cause further injury.

2. Regarding the application of the cuff and its pressurization on any limb where intravascular access or therapy, or an arterio-venous (A-V) shunt, is present because of temporary interference to blood flow and could result in injury to the patient.

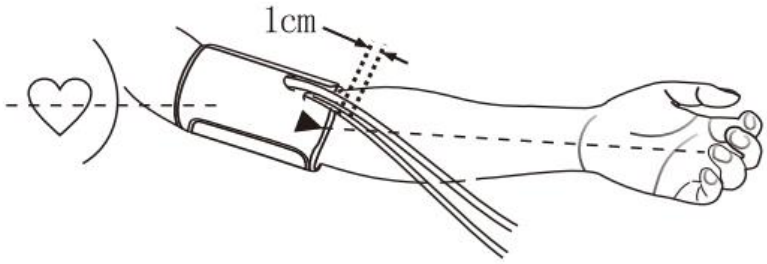
3. Regarding the application of the cuff and its pressurization onthe arm on the side of a mastectomy.

4. Regarding the information that pressurization of the cuff can temporarily cause loss of function of simultaneously used monitoring me equipment on the same limb
5. A recommendation that 5 min should elapse before the first reading is taken.

## POSTUR ES INSTRUCTIONS

1. Sit in a chair with your feet flat on the floor.

2. Bending the arm slightly, breezily and naturally place your arm on a table so that the cuff center is at the same level as your heart.




3.Be relaxed and breathe normally before measurement.

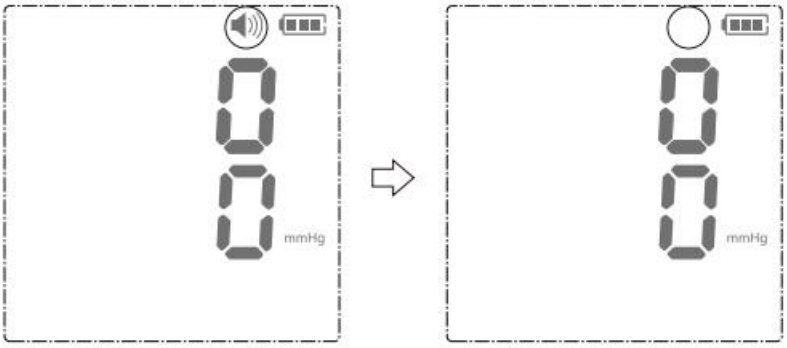
⚠ **Note:** The cuff center must be at the same level as your heart or else the measurement results may be affected.

## SETTING THE VOICE/UNIT

In stand by or turn on/off status, press the button "☼ "then turn on the monitor. It will enter the VOICE/UNITsetting status.

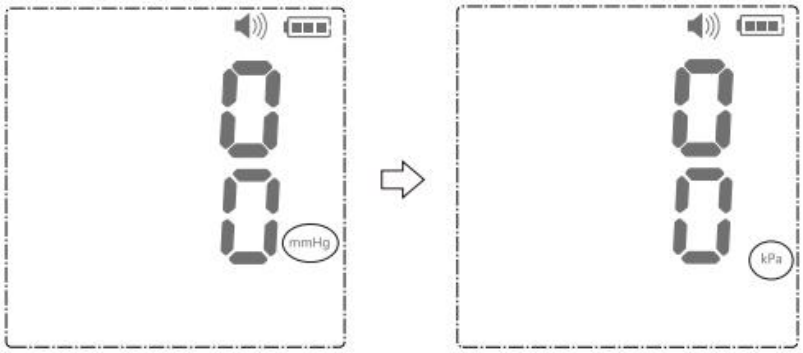
**SETTING THE VOICE**

Under voice setting status,voice icon flashes on the .display and you can turn on or off the voice function by press the button"✎". Press the button"☼"to confirm and enter unit setting.




**SETTING THE UNIT**

The‘mmHg' symbol or‘kPa' symbol flashes on the display under unit setting status. Press the button“”to change the unit status.



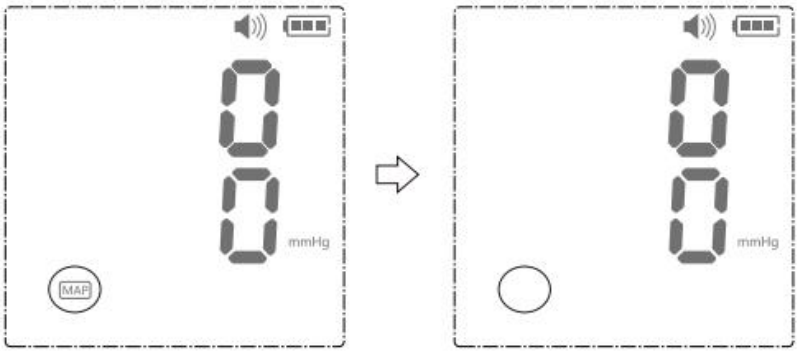

Press the button “⏻”to confirm, then enter the“MAP”,“THREE CONTINUOUS MEASUREMENTS" mode settings in sequence.

# MODE SETTING/FUNCTION INTRODUCTIONS

# MODESETTING

## 1. MAP MODE SETTING

The symbol“MAP”on the screen represents“MAP”mode,press the button“”to turn on or turn off this mode.

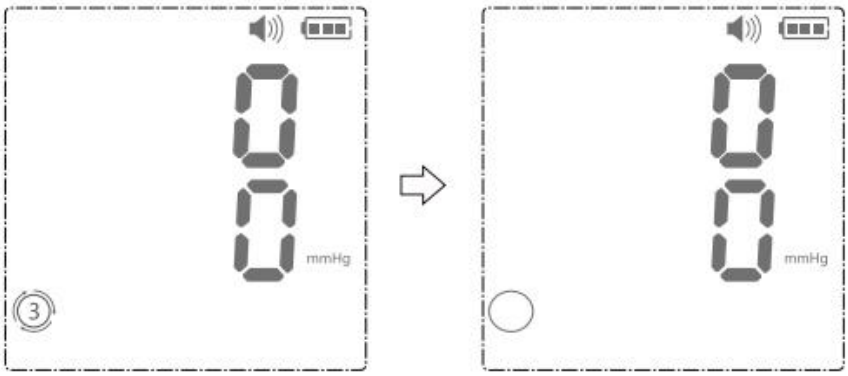



Press the button“☼”to confirm and enter“THREE CONTINUOUS

MEASUREMENT”mode setting.

**2. THREE CONTINUOUS MEASUREMENT MODE SETTING**

The symbol “③”on the screen represents“THREE CONTINUOUS MEASUREMENT" mode, press the button“”to turn on or turn off this mode.




Press the button“⏻”to confirm and exit the setting status.

**FUNCTION EXPLANATION**

**1.MAP MODE**

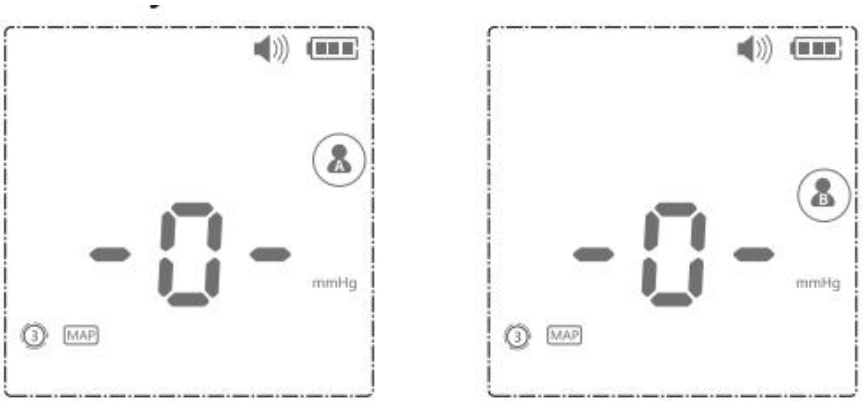
When this mode is turned on, the symbol“MAP”displays on the screen. The symbol“MAP”flashes and shows the MAP value after finishing every measurement or when you check the memory value of current user.

**2.THREE CONTINUOUS MODE**

When this mode is turned on, the symbol“③”displays on the screen. After complete the blood pressure measurement and wait for 2 minutes, voice prompts“Time is up, please measure" for 1 minute. Press the button “⏻” to start three continuous measurements and get the .average value of three measurement results.

# SETTING THE USER

This product has two users optional; you can press the button “”to choose the current user when the device underthe stand by status.




## TAKING A MEASUREMENT

The PulseWave Blood Pressure Monitor with dual airbags cuff patent(DUAL AIRBAGS with DUAL SENSORS): Lower Airbagfunctions as Stethoscope todetect PulseWave signal, Upper Airbag functions as Pump Bulb to detect Pressure Signal.
This device has two units optional: millimeters of mercury (mmHg) and kilopascals (kPa),the initial state is displayed in mmHg.
The following values are displayed “mmHg” as an example.
Users should try to relax the body before measurement,and sit for 2-3 minutes. Users are advised to be measured at the same time each day.
1.Apply the DualCuff correctly (Refer to the section 'APPLYING THE DUALCUFF') and set right measuring postures (Refer to the section ‘POSTURES INSTRUCTIONS'). Please keep quiet when measuring.
2.Under power off status, press the button“⏻”to start the monitor.
3. Press the button "⏻", the monitor starts to measure and begin to inflate the bladder.


4. If the display shows an error code like ‘EE2’ during inflation process，it means a failure of inflation for the bladder.


5. Bladder Inflation stops and deflates uniformly， the monitor measurement starts decreasing, numbers appear on the display.


6. After the measurement finished, the DualCuff deflates quickly. Your blood pressure and pulse rate are displayed and the monitor will save the result automatically. The prompts current measurement readings when voice function turn on.


7. When the MAP mode is turned on, the current measured MAP value will be displayed after displaying blood pressure measurement value and pulse value for 2 seconds. The blood pressure measurement value，pulse value and MAP value repeat display sequentially.


8. When the THREE CONTINUOUS MEASUREMENT mode is turned on, measurement finished and the monitor will have 120 seconds of interval wait. After 120 seconds of timing， voice function is turned on and prompts “Time is up， please measure" , the symbol“③.”flashes at the same time. Press the button “⏻”and continue to next measurement, measure for three times. Three measurements finished and the current blood pressure value displays， the average blood pressure value of three measurement results will display after 20 seconds. Voice prompts the current average blood pressure value. Press the button“⏻”by this time, the monitor will power off.
In the process of measuring, pressing the button“⏻”will quit measuring.

**NOTES:**

●The monitor will automatically turn off in 60 seconds after three continuous measurements finished or without turning on the THREE CONTINUOUS ME ASUR EMENT mode function.

●Do not repeat the measurements in a short time, or it may cause arm blood can't timely return which may result in incorrect results. A new measurement can be started after at least 2 minutes once the previous measurement finished, because the artery can recover back to the status before measurement.

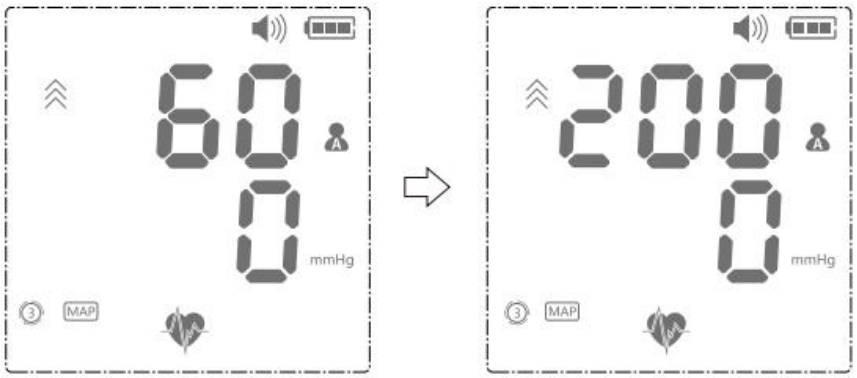
●If in the measurement process the body movement occurs， an error indicator will appear (see "Error Indicator"). Please re-measure and keep quiet until the measurement finished.

**NOTES:**

●If in the measurement process a system error occurs for some reasons. It results in measurement failure or the cuff is excessively inflated, please press the button “⏻|” to turn off the device and restart it.

## INFLATING MANUALLY

Use manual inflating to get higher pressure if you find pressure value is not enough in the beginning of measurement. Press and hold the button “⏻”when arm cuff is inflated until the pressure value reaches your expectation. Then arm cuff starts to deflate as normal measurement status.




## ⚠NOTE

●Do not inflate manually when not necessary.
●The monitor could not inflate over 300 mmHg by manual inflation, it will start to deflate and enter into measurement state when the pressure reaches up to 300 mmHg.

## VIEWING THE AVERAGE VALUE OF THE LAST THREE MEASUREMENTS

In the shutdown or standby mode, press“”to enter the memory mode, and the“"icon will appear. The current AVG displayed content is the average value of the last three measurements, as shown in the following figure.

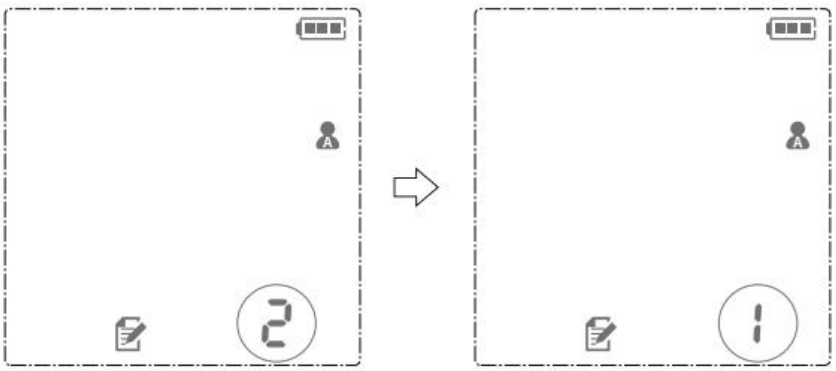

## VIEWING AND DEL ETING THE MEMORIZED MEASUREMENT VALUES

The monitor automatically stores 50 sets measurement values of user A and B respectively. When 50 sets of measurement values have been stored, the earliest record will be deleted to save the most recent values.

### TO DISPLAY THE MEASUREMENT VALUES

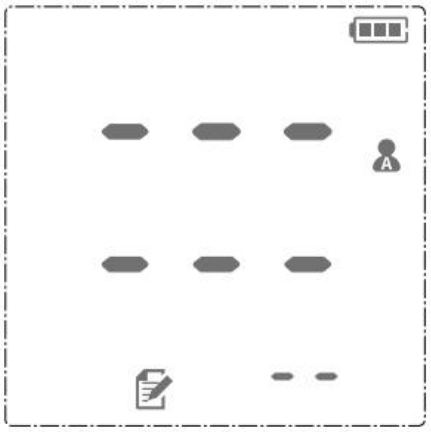
1. In the state of average value of the last three measurements,press the“"button again, and the memory icon will appear to enter the state of measurement values viewing.
2. After entering the memory state， press the“"button repeatedly, the number of memorized measurement values decrease by one every time, and the corresponding

memorized measurement values will be displayed in order from new to old.
Until the first set of memorized measurement values is displayed, pressing the"📝"button again will return to the latest set of display, the process can be repeated. As shown in the figure below.



3. After entering the memory state， press the“☼"button repeatedly, the number of memorized measurement values increase by one every time, and the corresponding memorized measurement values will be displayed in order from old to new.
Until the last set of memorized measurement values is displayed, pressing the" ☼"button again will return to the first set of display, the process can be repeated. As shown in the figure below.
4. Press and hold the“📝"key in standby mode to switch to different users' memorized values.
5. Press the button“⏻"to exit memory function.

**How to delete all the memorized measurement values completely:** After entering the memory state, press the “📝”button for at least 3 seconds to delete all the memorized measurement values completely of the current user. After deletion, the display screen is shown in the following figure.



⚠**NOTE**: You cannot partially delete values stored in the memory but only delete all of the current user's memory values.

## DATA TRANSFER

1. The models including BP550DB\BP550DB-H can use Bluetooth to transfer data.

## CARE AND MAINTENANCE

1.If the monitor gets dirty, use soft cloth dipped little water or a mild detergent to slightly wipe it. Do not use gasoline, thinners and other solvents. Do not wet the DualCuff or let the liquid enter the device during cleaning.
2.Do not crash or fall down the monitor.
3.Keep the monitor and accessories in packing case when not in use.
4.Do not subject the monitor to extreme high or low temperatures, humidity or direct sunlight.
5.Do not forcefully fold the DualCuff or airway tubes.
6.Do not start measurement when the DualCuff is not applied,or else, the DualCuff may be damaged.
7.Do not disassemble or attempt to repair the monitor.

## ERROR INDICATORS

| Error Code | Reasons | Measures |
|---|---|---|
| EE 1 | Upper bladder Pressure reaches the biggest rated pressure | Turn off the monitor or pul up the big cuff tubes. |
| EE 2 | Air is leaking. | Check the Tubes if connected property. |
| Others | Others | Contact Raycome Health |

## COMMON TROUBLES

The following chart lists common troubles you may come across when you use blood pressure monitor.Please contactour after-sales service department for help in case problemsstill cannot be solved.

| No. | Phenomenon of trouble | Possible reason | Solution |
|---|---|---|---|
| 1 | No display appears on the screen after starting up. | No power | Please replace the dry batteries. |

| | | | |
|---|---|---|---|
| 2 | Blood pressure measurement values always vary and appear to be too high or too low. | Blood pressure measurement varies under stress. | Take a deep breath to relax before measurement. |

## PRODUCT SPECIFICATION

Name: PulseWave Blood Pressure Monitor

Model: BP550D/BP550DB/BP550D-H/BP550DB-H

Measurement Range: Pressure: 0 to 300mmHg (0 to 40kPa);

Pulse rate: 30 to 200/min

Accuracy: Pressure:±3mmHg(±0.4kPa)

Pulse rate:±5%

Systolic blood pressure ranges: 60mmHg~265mmHg(8.0kPa~35.3kPa)

Diastolic blood pressure ranges: 30mmHg~200mmHg(4.0kPa~26.7kPa)

Storage Capacity: each 50 sets measurement values of two users

Power supply: DC6V (AAA dry battery: 4pcs) or Adaptor(optional)(Input: AC100V-240V 50/60Hz,0.5A Output: DC5V/1A)

Operating Temperature/Relative Humidity/Air Pressure:

5 ℃ to 40 ℃(41°F to 104°F)/15% to 80% RH/80kPa to 106kPa

Storage and Transportation Temperature/ Relative Humidity/Air Pressure:-20 ℃ to +55 ℃(-4°F to 131°F)/≤93%RH/50kPa to 106kPa

Main Unit Weight: Approximately 250g(exclude the dry batteries)

Main Unit Dimension: 148mm(L)×102mm(W)×54mm(H)

Shock Protection: Type BF applied part

Applicable arm circumference range: 18cm-42cm

Date of manufacture: refer to the label

Service life: 5 years

## APPENDIXA: PACKING LIST

When the user opens Blood pressure monitors packaging,please check the following packing list.If objects are not complete or have other questions, please contact Raycome Healths.

| No. | Name | Quantity |
|---|---|---|
| 1 | Main unit | 1 |
| 2 | Dual Cuff<br>□S ☑M □ L | 1 |
| 3 | Adaptor | Optional |
| 4 | Instruction manual | 1 |

# APPENDIX B:EMC

⚠Please install and use this instrument according to the EMC information provided in this Instruction Manual.

⚠The portable and mobile RF communications equipment can affect this instrument's normal operation.

⚠Please use the accessories sold by our company, the inappropriate one may result in increased emission or decreased immunity of this instrument.

⚠The instrument should not be used adjacent or stacked with other equipment and if adjacent or stacked use is necessary,please verifty its normal operation in the configuration in which it will be used.

**Table** 1**:**

| | | | |
|---|---|---|---|
| **1** | **Guidance and manufacturer's declaration-electromagnetic emission** | | |
| **2** | The PulseWave Blood Pressure Monitor is intended for use in the electromagnetic environment specified below. The customer or the user of PulseWave Blood Pressure Monitor should assure that it is used in such an environment. | | |
| 3 | **Emissions test** | **Compliance** | **Electromagnetic environment-guidance** |
| 4 | RF emissions<br>GISPR11 | Group 1 | The Pulse Wave Blood Pressure Monitor uses RF energy only for its intemal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment |
| 5 | RF emissions<br>CISPR11 | Class B | The PulseWave Blood Pressure monitor is suitable for use in all establishments,including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes. |
| 6 | Harmonic emissions EN 61000-3-2 | Class A | |

| | | | |
|---|---|---|---|
| 7 | Voltage fluctuations/ flicker emissions EN 61000-3-3 | Complies | |

**Table 2:**

| Guidance and manufacturer's declaration-electromagnetic immunity | | | |
|---|---|---|---|
| The PulseWave Blood Pressure Monitor is intended for use in the electromagnetic environment specified below. The customer or the user of the PulseWave Blood Pressure Monitor should assure that it is used in such an environment. | | | |
| **Immunity test** | EN 60601 test level | Compliance level | **Electromagnetic environment guidance** |
| Electrostatic discharge (ESD) EN 61000-4-2 | ±6kV contact ±8kVair | ±6kV contact ±8 kV~15kV air | Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30% |
| Electrostatic transient/ burst EN 61000-4-4 | ±2kV for power supply lines ±1kV for input/ output lines | ±2kV for power supply lines ±1kV for input/ output lines | Mains power quality should be that of a typical commercial or hospital environment |
| Surge EN61000-4-5 | ±1kV differential mode ±2kV common mode | ±1 kV differential mode ±2kV common mode | Mains power quality should be that of a typical commercial or hospital environment. |
| Voltage dips short interruptions and voltage variations on power supply input lines EN61000-4-11 | <5%U, (>95% dipin U) for 0.5 cycl 40% U (60%dipin U) for 5 cycles 70% U (30%dipinU for 25 cycles <5%U <>95% dipin U) for 5 sec | <5%U (>95%dipin U) for 0.5 cyele 40%U (60%dipin Ui) for 5 cycles 70% U (30%dipin U) for 25 cycles <5%U (>95%dipin U) for 5 sec | Mains power quality should be that of a typical commercial or hospital environment. If the user of the Child PulseWave Blood Pressure Monitor requires continued operation during power mains interruptions, it is recommended that the Child PulseWave Blood Pressure Monitor be powered from an uninterruptible power supply or a battery. |
| Power frequency (50/60 Hz) | 3A/m | 3A/m | Power frequency magnetic fields should be at levels characteristic of a typical location in a typical |

| | | | |
|---|---|---|---|
| magnetic field EN 61000-4-8 | | | commercial or hospital environment |
| NOTE Ulis the a.c.mains voltage prior to application of the test level | | | |

**Table 3:**

| **Guidance and manufacturer's declaration-electromagnetic immunity** | | | |
|---|---|---|---|
| The PulseWave Blood Pressure Monitor is intended for use in the electromagnetic environment specified below. The customer or the user of the Child Pulse Wave Blood Pressure Monitor should assure that it is used in such an environment. | | | |
| **Immunity test** | **EN60601 test level** | **Compliance level** | **Electromagnetic environment-guidance** |
| Conducted RF EN 61000-4-6 | 3Vrms 150kHz to 80 MHZ | 3V | Portable and mobile RF communications equipment should be used no closer to any part of the Automatic PulseWave Blood Pressure Monitor, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter<br>Recommende separation distance d<br>$d=[\frac{3.5}{V_1}]\sqrt{P}$ 80 MHz to 800MHz<br>$d=[\frac{3.5}{E_1}]\sqrt{P}$ 800 MHz to 2.5 GHz<br>$d=[\frac{7}{E_1}]\sqrt{P}$<br>Where p is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m)<br>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey.' should be less than the compliance level in each frequency range.b<br>Interference may occur in the vicinity of equipment marked with the following symbol:  |
| Radiated RF EN 61000-4-3 | 3V/m 80 MHZ to 2.5 GHz | 3V/m | |
| NOTE 1 At 80 MHz and 800 MHz,the higher frequeney range applies<br>NOTE.2 These guidelines may not apply in all situations. Electromagnetic is affected by absorption and reflection from structures, objects and people | | | |
| a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadeast and TV broadeast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Child Pulse Wave Blood Pressure Monitor is used exceeds the applicable RF compliance level above, the Child Pulsc Wave Blood Pressure Monitor should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Child Pulse Wave Blood Pressure Monitor.<br>b Over the frequeney range 150 kHz to 80 MHz, field strengths should be less than 3V/m | | | |

**Table 4:**

| Recommended separation distances between portable and mobile RF communications equipment and the Child Pulse Wave Blood Pressure Monitor | | | |
|---|---|---|---|
| The PulseWave Blood Pressure Monitor is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Child PulseWave Blood Pressure Monitor can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Child Pulse Wave Blood Pressure Monitor as recommended below, according to the maximum output power of the communications equipment. | | | |
| Rated maximum output of transmitter | Separation distance according to frequency of transmitterm | | |
| | 150 kHz to 80 MHz $d=[\frac{3.5}{V_1}]\sqrt{P}$ | 80 MHzto 800 MHz $d=[\frac{3.5}{E_1}]\sqrt{P}$ | 800 MHzto2.5 GHz $d=[\frac{7}{E_1}]\sqrt{P}$ |
| 0.01 | 0.12 | 0.12 | 0.23 |
| 0.1 | 0.38 | 0.38 | 0.73 |
| 1 | 1.2 | 1.2 | 2.3 |
| 10 | 3.8 | 3.8 | 7.3 |
| 100 | 12 | 12 | 23 |
| For transmitters rated at a maximum output power not listed above the recommended separation distance d in metres(m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts(W) according to the transmitter manufacturer<br>NOTE 1 At 80 MHz and 800 MHz,the separation distance for the higher frequeney range applies<br>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures,objects and people. | | | |

**Product Name**: PluseWave Blood Pressure Monitor

**Model**:BP550D/BP550DB/BP550D-H/BP550DB-H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