



DN:KD-5811BT-SMSY01 V2.0

**Instruction Manual**

# **Instruction Manual (V2.0)**

Product/Project Name: Blood Pressure Monitor  
Model Name: KD-5811BT



DN:KD-5811BT-SMSY01 V2.0

Instruction Manual

**Wireless Blood Pressure Monitor**  
**MODEL KD-5811BT**  
(ELECTRONIC SPHYGMOMANOMETER)  
**Instruction Manual**

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**IMPORTANT INFORMATION**

**Please read this instruction manual carefully before using the product.**

Thank you for purchasing the Wireless Blood Pressure Monitor. Please retain this Instruction Manual for reference. If you notice any damage to the packaging, device or accessory upon unpacking, do not use. Please contact your supplier.

**NORMAL BLOOD PRESSURE FLUCTUATION**

Blood pressure is affected by various factors, including excitement, stress, body position, and physical activities such as eating, drinking, smoking, or even taking a blood pressure measurement. As a result, it is unusual to obtain identical blood pressure readings multiple times.

Blood pressure fluctuates constantly throughout the day and night. Typically, it continues to rise during the day and peaks while most people are awake and active. It then drops in the evening, reaching its lowest between midnight and 3 a.m. while most people sleep.

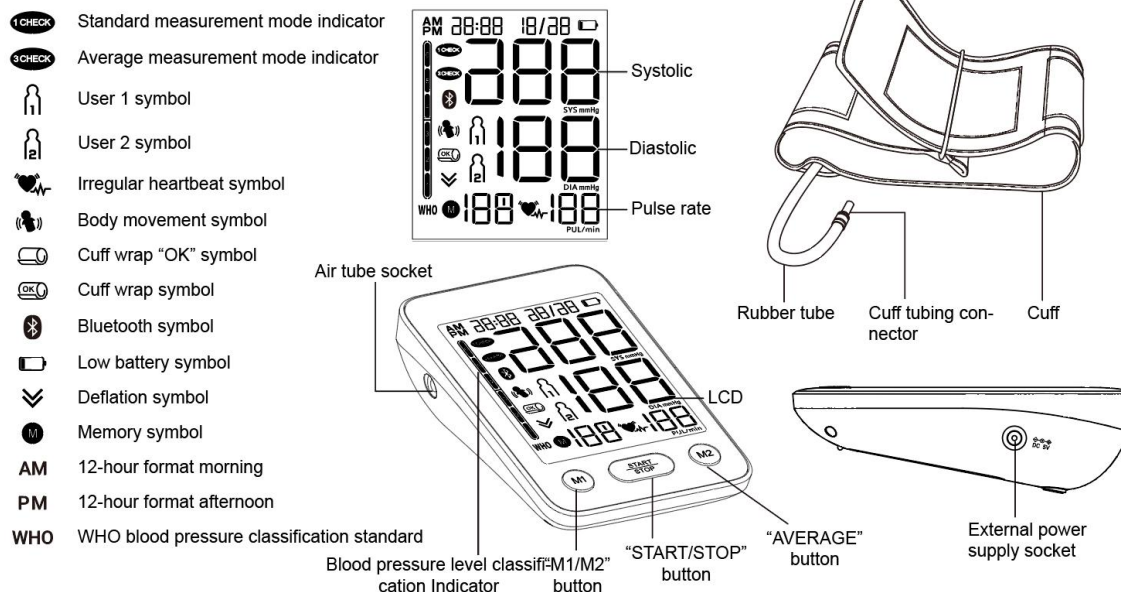
Considering the above information, measuring your blood pressure at approximately the same time every day is recommended.

Taking measurements more often than necessary may cause an injury due to blood flow interference, so please always rest at least 60 to 90 seconds between measurements to allow the blood circulation in your arm to recover.

**BOX CONTENTS**

- 1 × Blood Pressure Monitor
- 1 × Instruction Manual
- 1 × Arm Cuff
- 1 × Storage Bag
- 4 × AA Batteries

## DISPLAY INDICATORS



## INTENDED USE

Fully Automatic Electronic Blood Pressure Monitor is for use by medical professionals or at home and is a non-invasive blood pressure measurement system intended to measure the diastolic and systolic blood pressures and pulse rate of an adult individual by using a noninvasive technique in which an inflatable cuff is wrapped around the upper arm. The cuff circumference is limited to 17cm-48cm(approx.6.7"- 18.9").

Intended user:Medical professionals or lay persons.

## CONTRAINDICATION



This blood pressure monitor (electronic sphygmomanometer) is not suitable for people with severe arrhythmia.

## PRODUCT DESCRIPTION

Based on oscillometric methodology and a silicon-integrated pressure sensor, blood pressure and pulse rate can be measured automatically and non-invasively. Users can operate the device themselves. The liquid crystal display (LCD) shows blood pressure and pulse rate. This blood pressure monitoring device can store up to 240 readings for two different users, along with the date and time of each measurement.

This wireless blood pressure monitor has been designed in accordance with the requirements of ISO 81060-2:2018.

## SPECIFICATIONS

1. Product name: Wireless Blood Pressure Monitor
2. Model: KD-5811BT
3. Classification: Internally powered, Class II, Type BF applied part, IP21, No AP or APG, continuous operation
4. Monitor size: Approx. 139.4 mm × 93.8 mm × 43.4 mm (5.5" × 3.7" × 1.7")
5. Cuff circumference: 22cm-42cm(8.7"-16.5"),  
17cm-22cm(6.7"~8.7")(Optional),  
22cm-30cm(8.7"-11.8")(Optional),  
30cm-42cm(11.8"-16.5")(Optional),  
42cm-48cm(16.5"-18.9") (Optional)
6. Weight: Approx. 242 g(8.54 oz.) (excluding batteries and cuff)
7. Measuring method: Oscillometric method
8. Memory volume: Two users, 120 measurements each
9. Power source:  
Medical AC adapter: 5V  1A, batteries: 4 × 1.5V  SIZE AA
10. Measurement ranges:  
Cuff pressure: 0 to 300 mmHg  
Systolic: 60 to 260 mmHg  
Diastolic: 40 to 199 mmHg  
Pulse rate: 40 to 180 beats/minute
11. Accuracy:  
Pressure: ±3 mmHg  
Pulse rate: ±5%
12. Operation conditions: :5 °C to 40 °C (41 °F to 104 °F), ≤85% RH, 80~105kPa
13. Storage/Transport conditions:-20 °C to 55 °C (-4 °F to 131 °F), ≤90% RH, 80~105kPa
14. Battery life: Approx. 270 measurements
15. Wireless communication:  
Modulation types: GFSK  
Frequency Band: 2.400 GHz to 2.4835 GHz  
Effective radiated power: < 0 dBm
16. Product life:  
Monitor: 3 years  
Cuff: 3 years(with 3 uses daily)

## IMPORTANT SAFETY INFORMATION



### Warning

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

- The device should not be used for patients with artificial hearts or lungs, or poor peripheral circulation, noticeably low blood pressure, or low body temperature.

- The device should not be used for neonates, infants, children or persons who cannot express themselves. This device has not been validated for use on pregnant patients.
- Consult your doctor before using the device for any of the following conditions: common arrhythmias, such as atrial or ventricular premature beats or atrial fibrillation, arterial sclerosis, poor perfusion, diabetes, pre-eclampsia, and renal diseases.
- Do not use this device in a moving vehicle.
- Do not use this device if you are allergic to plastic/rubber.
- Please do not share the cuff to prevent the risk of infection and cross-contamination.
- This device can be used in conjunction with a medical AC adapter (Input:AC 100 to 240 V, 50/60 Hz, 0.2A; output: DC 5V, 1A). Do not use a cuff or AC adapter other than the ones supplied by the manufacturer. Disregarding this safety instruction may bring about a biocompatible hazard, result in measurement error, damage the device, or hurt the user.
- Keep the device safely stored and inaccessible to children to prevent them from swallowing the batteries or other small parts.
- Keep the cuff tube and the cable away from children to avoid the risk of strangulation or asphyxiation.
- As the alternative small-bore connector used for this medical device is designed differently from the connector specified in the ISO 80369 series, the user will need to take steps to reduce the risk of incorrectly connecting.
- See the section regarding ELECTROMAGNETIC COMPATIBILITY INFORMATION for information regarding potential electromagnetic interference (EMI) or other interference between the device and other

devices.  Please do not use the device within the environment of the following devices: magnetic resonance imaging, computerized axial tomography, diathermy, radio frequency (RF) identification, active high-frequency surgical equipment, and electromagnetic security systems, such as metal detectors, and not intended for use in an oxygen-rich environment.


**Caution**

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user.

- Stay quiet and calm, and rest for five minutes before taking your blood pressure measurement. Relax for a minimum of 1 to 1.5 minutes between measurements to allow the blood circulation in your arm to recover.
- Do not speak or move your body or arm during the measurement. Motion, trembling, and shivering during measurement may affect the result.
- Prolonged overinflation (cuff pressure exceeds 300 mmHg or is above 15 mmHg for longer than 3 minutes) of the bladder may cause ecchymoma (a tumor-like swelling composed of extravasated blood) of the arm.
- The device might not meet its performance specifications or cause safety hazards if stored or used outside the specified temperature and humidity ranges listed in the specifications.
- Consult your doctor before use if any of the following scenarios are applicable:

- 1) The cuff will be applied over a wound or inflammation disease;
- 2) The cuff will be applied on any arm where intravascular access or therapy, or an arterio-venous (A-V) shunt, is present;
- 3) The cuff will be applied to the arm on the same side as a mastectomy or lymph node clearance;
- 4) The device will be used simultaneously with other monitoring medical equipment on the same arm, pressurization of the cuff can temporarily cause loss of function of simultaneously used monitoring ME EQUIPMENT on the same limb.
- 5) The user has preexisting blood circulation issues.
  - Blood pressure measurements determined by this device are equivalent to those obtained by a trained observer using the cuff/stethoscope auscultation method, within the limits prescribed by the American National Standard Institute, electronic or automated sphygmomanometers.
  - This equipment has been tested and found to comply with the limits for a Class B digital device under part 15 of the FCC Rules. These limits are designed to protect reasonably against harmful interference in a residential installation. This equipment generates, uses, and can radiate RF energy and, if not installed and used by the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Suppose this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on. In that case, 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 the receiver.
    - Connect the equipment to 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.
  - RF Exposure statement :The device has been evaluated to meet general RF exposure requirement.
  - A signal will be displayed if the blood pressure measurement procedure detects an irregular heartbeat (IHB) . Under this condition, the electronic sphygmomanometer can keep functioning, but the results may not be accurate. Please consult your doctor for a precise assessment.  
There are two conditions under which the signal of IHB will be displayed:
    - 1) The coefficient of variation of pulse period  $>25\%$  .
    - 2) The difference in adjacent pulse periods is  $\geq 0.14$  seconds, and the number of such pulses is more than 53% of the total number.
  - Please check the condition of the arm being used to ensure that the device is not impairing the patient's blood circulation when in use.
  - If during or through use of the product a major incident occurs, notify the manufacturer and/or their representative of this as well as the respective national authority of the member state in which the user/patient is located.
  - Using the device is not a substitute for consultation or treatment from a doctor. Whenever you have any symptoms or concerns, always contact your doctor first

## SETUP AND OPERATION

### 1. DOWNLOAD THE APP (Optional)

Before first use, download and install the app from the App Store (iOS device) or Google Play (Android device).

### 2. INSTALLING BATTERY OR AC ADAPTER

#### 1) INSTALLING BATTERY

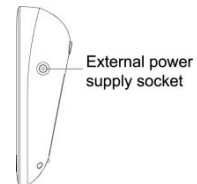
- Open the battery cover at the back of the device.
- Insert four "AA" batteries. Make sure the batteries are inserted according to the positive and negative marks ("+" and "-") printed in the battery housing.
- Close the battery cover.

#### Note:

- When LCD shows a low battery symbol , replace all batteries with new ones.
- Rechargeable batteries are not suitable for this device.
-  Avoid getting battery fluid in your eyes. If battery fluid gets in your eyes, immediately rinse with plenty of clean water and consult with your doctor.

#### 2) INSTALLING AC ADAPTER

If you use the AC adapter, please make sure the device turn off or no batteries. Put the connector plug of the adapter into the socket. Then plug the adapter to AC outlet. When disconnect the AC Adapter:  
Remove the AC Adapter from the electrical outlet;  
Remove the AC Adapter plug from the monitor socket.



-  When connecting the adapter, connect to the device first and then the AC outlet. When disconnecting the adapter, disconnect the AC outlet first and then the device.
-  Do not plug or unplug the power cord into the electrical outlet with wet hands.
-  Make sure the device is turned off, and there are no batteries.
-  Do not overload power outlets. Plug the device into the appropriate voltage outlet.
-  If the AC adapter is abnormal, please stop using it.
-  Do not pull out the adapter while you are using the device.
-  Do not position the device so it is difficult to operate or disconnect.



*The device, batteries, and cuff must be disposed of according to local regulations after use.*

### 3. CONNECTING THE CUFF TO THE DEVICE

Insert the end of the cuff tube firmly into the device's air tube socket on the left side. Next to the air hole, there is a cuff symbol .

#### 4. APPLYING THE CUFF

- a. Pull the cuff through the metal loop, see Figure 4-1. Slide your bare arm through the cuff and tighten it securely. Close the velcro to fasten the cuff in place.
- b. Ensure the bottom of the cuff is positioned 1 to 2 cm above your elbow joint and fits comfortably, yet snugly, around your arm. You should be able to insert one finger between your arm and the cuff.
  - 1) If applying the cuff on your **left arm**, Position the cuff so that the cuff tube is in the middle of your arm and line with your middle finger, see Figure 4-2.
  - 2) If applying the cuff on your **right arm**, Position the cuff so that the cuff tube is at the side of your elbow and in line with your little finger, see Figure 4-3.

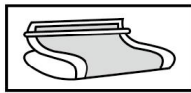


Figure 4-1

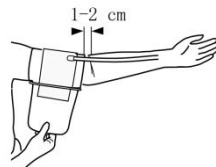


Figure 4-2

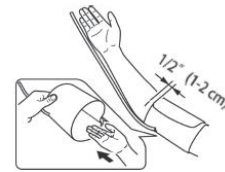


Figure 4-3

#### Note:

- Please refer to the cuff circumference range in “SPECIFICATIONS” to ensure appropriate usage. .
- Always measure on the same arm for consistency.
- Do not apply the cuff if the arm has inflammation, acute diseases, or skin wounds.
- ⚠ To prevent measurement failure or injury, please avoid squeezing or bending the connection tube during the measurement process.

#### 5. BODY POSTURE DURING MEASUREMENT

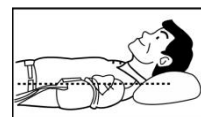
##### Sitting during measurement:

- a. Sit with your feet flat on the floor and avoid crossing your legs.
- b. Extend your arm with your palm facing up, resting comfortably on a flat surface.
- c. Position the cuff to be at the same level as your heart.



##### Lying down during measurement:

- a. Lie on your back.
- b. Place your left arm straight along your side with your palm facing up.
- c. Ensure the cuff is positioned at the same level as your heart.



## 6. TAKING YOUR BLOOD PRESSURE READING

The device lets you choose standard measurement mode(one reading) or average measurement mode(three consecutive readings). Because blood pressure varies, three readings give a more reliable result.

- Standard measurement mode: shows “1 CHECK” on the LCD.
- Average measurement mode : shows “3 CHECK” on the LCD.

### (1) STANDARD MEASUREMENT MODE



Figure 6-1



Figure 6-2

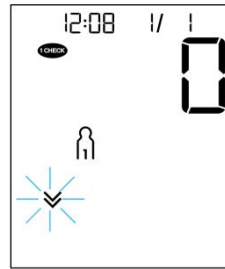


Figure 6-3



Figure 6-4

- After securing the cuff and getting comfortable, press the "START/STOP" button to take a measurement. After the beep, verify the LCD display matches what is shown in Figure 6-1.

**Note:** Contact customer service if any display symbol is missing.

- Then the device will briefly display the current User for three seconds, see Figure 6-2. Within these three seconds, use the “M1” or “M2” button to select your desired user group, then either wait auto-confirmation or press "START/STOP" button to confirm immediately.

**Note:** If no user group is selected, the measurement will be stored in the most recently selected user group.

- If the voice function is switched on, the monitor will speak out measurement tips.
- Then the device starts to seek zero pressure. See Figure 6-3.
- Then, the device will begin inflating the cuff. During this process, flashes briefly, then either stays on the LCD or disappears:
  - : The cuff is loose or not wrapped properly.
  - : The cuff is wrapped properly.
- The device slowly releases air from the cuff and carries out the measurement. Lastly, the blood pressure and pulse rate will be calculated and displayed on the LCD screen . If the voice function is on, it will announce the measurement result, you can press any button to skip voice prompts.
- Then the blood pressure classification indicator and Irregular heartbeat symbol (if any) will blink on the screen. The bluetooth symbol flashes, you can connect app transfer your blood pressure readings by Bluetooth. See Figure 6-4.

**Notes:**

If any of the symbols below are displayed, the measurement result may not be accurate. Please take another measurement.



: The cuff is loose or not wrapped properly.



: Body movement detected during measurement.

- h. The device will automatically turn off after one minute of inactivity. Alternatively, press the **"START/STOP"** button to turn off the device at any time.

### Notes:

- 1) Cuff wrap indicator applies to 22cm-42cm cuffs, the cuff wrap symbol() has no reference meaning when using other cuffs.
- 2) Please consult a doctor for the interpretation of the measurements.

## (2) AVERAGE MEASUREMENT MODE



Figure 6-5

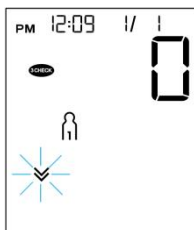


Figure 6-6

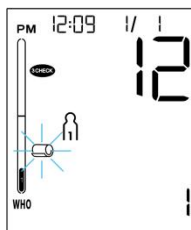


Figure 6-7

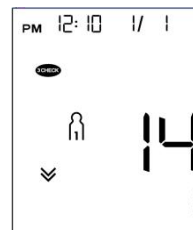


Figure 6-8

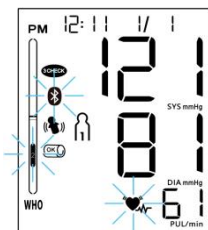


Figure 6-9

- a. After securing the cuff and getting comfortable, press and hold the **"START/STOP"** button to take a measurement. After the beep, verify the LCD display matches what is shown in Figure 6-5.

**Note:** Contact customer service if any display symbol is missing.

- b. Then the device will briefly display the current User for three seconds, see Figure 6-5. Within these three seconds, use the **"M1"** or **"M2"** button to select your desired user group, then either wait auto-confirmation or press **"START/STOP"** button to confirm immediately.

**Note:** If no user group is selected, the measurement will be stored in the most recently selected user group.

- c. If the voice function is switched on, the monitor will speak out measurement tips.
- d. Then the monitor starts to seek zero pressure. Measurement count shown in the bottom right corner. See Figure 6-6.
- e. Then three times measurements are automatically taken and the result is automatically analysed and displayed, See Figure 6-7. A countdown is shown on the LCD during each measurement interval, indicating the time remaining until the next measurement, see Figure 6-8. The measurement result will be shown after three times measurements. See Figure 6-9.
- i. If the voice function is on, it will announce the measurement result, you can press any button to skip voice prompts.
- j. Then the blood pressure classification indicator and Irregular heartbeat symbol (if any) will blink on the screen. The bluetooth symbol flashes,

you can connect app transfer your blood pressure readings by Bluetooth.  
See Figure 6-9.

### Notes:

*If any of the symbols below are displayed, the measurement result may not be accurate. Please take another measurement.*



: The cuff is loose or not wrapped properly.



: Body movement detected during measurement.

- Please keep quiet and calm during the entire process and do not remove the cuff between measurements.
- The device will automatically turn off after one minute of inactivity. Alternatively, press the **"START/STOP"** button to turn off the device at any time.

### Notes:

- Cuff wrap indicator applies to 22cm-42cm cuffs, the cuff wrap symbol() has no reference meaning when using other cuffs.
- Please consult a doctor for the interpretation of the measurements.

## 7. VIEWING STORED READINGS

You can access your stored readings by pressing the **"M1"** or **"M2"** buttons while the measurement results are displayed or while the device is powered off to view the stored readings for the desired user.

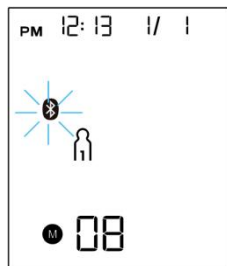


Figure 7-1

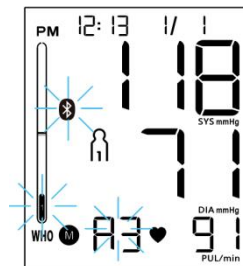


Figure 7-2

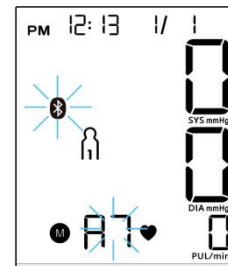


Figure 7-3



Figure 7-4

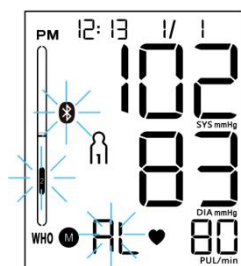


Figure 7-5

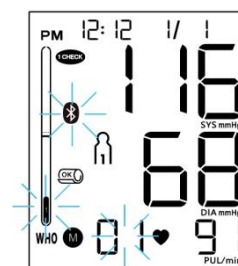


Figure 7-6

- After pressing the **"M1"** or **"M2"** button, After the beep, the number of stored readings will be displayed at the bottom of the LCD, see Figure 7-1. Press the **"START/STOP"** button to select the user you want to view, then press **"M1"** button to confirm your choice, or wait 3 seconds for auto-confirmation.
- When **"A3"** flashes at the bottom of the LCD, the displayed numbers

represent the average of the selected user's three most recent readings. See Figure 7-2.

- c. Press the “**M1**” button again to display “A7,” showing the average of the readings taken between 5 a.m. and 9 a.m. for the selected user over the last 7 days. See Figure 7-3.
- d. Press the “**M1**” button again to display “P7,” showing the average of the readings taken between 6 p.m. and 8 p.m. for the selected user over the last 7 days. See Figure 7-4.
- e. Press the “**M1**” button again to display “AL,” showing the average of all the readings for the selected user. See Figure 7-5.
- f. Press the “**M1**” button once more to show “01,” showing the most recent reading for that user. See Figure 7-6.
- g. Press the “**M1**” button again to navigate to the next result. Repeat to browse through all readings.
- h. Similarly, use the “**M2**” button and follow steps a through e to view User 2's readings.
- i. When reviewing stored readings, if the Bluetooth symbol is flashing on the LCD, you can open the app to transfer the records to your phone.
- j. The device will automatically turn off after one minute of inactivity. Alternatively, you can press the “**START/STOP**” button to turn off the device anytime.

**Note:** The classification indicator shows different numbers based on systolic and diastolic pressure. For details, refer to the “ASSESSING HIGH BLOOD PRESSURE FOR ADULTS” section.

## 8. TRANSFERRING STORED READINGS TO THE APP

You may transfer your blood pressure readings to the app anytime you see the Bluetooth symbol flash. The Bluetooth symbol will flash whenever you view your stored readings or after a measurement.

- a. When the Bluetooth symbol flashes, open the app on your smartphone near the device (ensure Bluetooth is enabled in your settings).
- b. Follow the steps in the app to connect the monitor. this is required for the first connection.
- c. The Bluetooth symbol will remain solid when the monitor connects to the app. Then, the stored readings will be automatically transmitted to the app.
- d. Once the results have been successfully transferred, the local storage will no longer retain the historical readings sent.

**Note:** The blood pressure monitor cannot connect to the app if the device is taking measurements, the result is being announced or the battery is low.

## 9. DELETING STORED READINGS

To delete all the stored readings of the current user, press and hold the “M1” and “M2” buttons for three seconds while



any result is displayed. Once complete, the device will turn off after one second.

## 10. VOICE SETUP

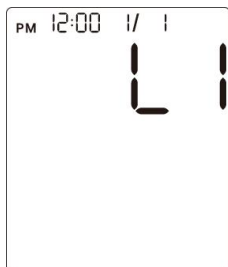


Figure 10-1

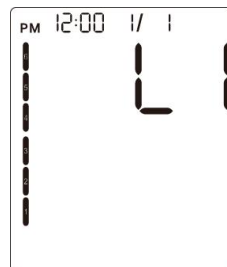


Figure 10-2

### Voice language setting:

- In the power-off state, you can enter the voice language setting by pressing **"START/STOP"** and **"M2"** for 3 seconds.
- Then LCD display the current language code "L0" or "L1", "L2" ... "Ln" (n means the number of language) ,see Figure 10-1. "L0" represents closing voice function, "L1" represents language 1, "L2" represents language 2,...,"Ln" represents language n, and so on.
- You can select the wanted language by pressing button **"M1"** and **"M2"** when display the corresponding language code, press the button **"M1"** to increase the language code and press the button **"M2"** to decrease the language code.
- The device will automatically turn off after one minute of inactivity.

### Voice volume setting:

- Once you have selected a language, pressing the **"START/STOP"** button. A column of bar will appear on the left side of the LCD, see Figure 10-2. The higher the bars, the louder the volume.
- Press the button **"M1"** to increase the volume and press the button **"M2"** to decrease the volume . Finally, press the **"START/STOP"** button to confirm the selected volume.
- The device will automatically turn off after one minute of inactivity.

## 11. TIME AND DATE SETUP

You can choose to set the time automatically or manually.

### Automatic time setting:

When the Bluetooth symbol flashes, connect the device to the app and the time will set automatically.

### Manual time setting:

- If the time on the device needs to be changed, press both the **"M1"** and **"START/STOP"** button for 3 seconds in the power-off state.
- The default time format is 24-hour format, see Figure 11-1. Press the **"M1"** button to switch to the 12-hour



Figure 11-1

format. Press the **"START/STOP"** button to confirm your selection.

- c. After selecting your desired time format, the year value will begin flashing. Use the **"M1"** or **"M2"** button to adjust the value. Holding down the **"M1"** or **"M2"** button enables rapid selection.
- d. Press the **"START/STOP"** button to confirm your choice and proceed to the next setting screen. The setting order is "Year/Month/Day/Hour/Minute," as shown in the following Figure 11- 2& 11-3 & 11-4 & 11-5 & 11-6.

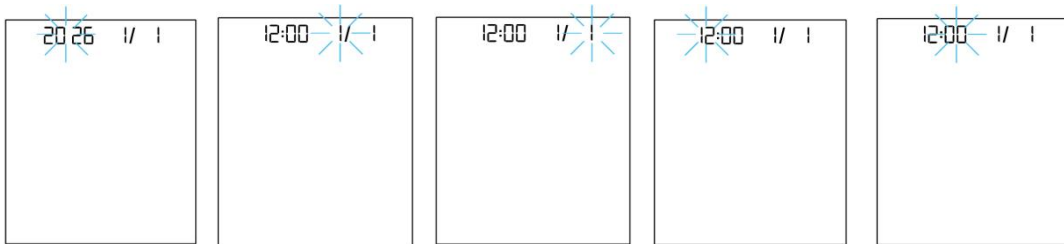


Figure 11-2      Figure 11-2      Figure 11-3      Figure 11-4      Figure 11-5

- e. During adjusting clock and date, the device will go back to power-off state automatically and date unchanged when no button will be pressed within 1 minute .
- f. You can turn off the device by pressing **"START/STOP"** button when the minute is blinking, then the time and date is confirmed.

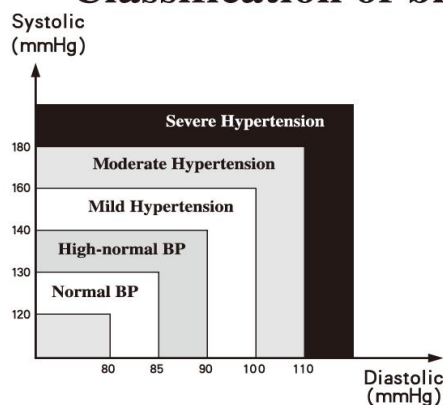
**Note:**

- 1) The year range is 2026–2099, the default time format is 24h and the default clock and date is 2026-1-1 12:00.
- 2) After replacing the batteries, you should readjust the time and date.

## 12. ASSESSING HIGH BLOOD PRESSURE FOR ADULTS

The World Health Organization has established the following guidelines for assessing high blood pressure (regardless of age or gender). Please note that other factors (e.g., diabetes, obesity, smoking, etc.) must be considered. Consult with your *doctor* for an accurate assessment.

### Classification of blood pressure for adults



| BLOOD PRESSURE CLASSIFICATION | SBP mmHg | DBP mmHg | LCD INDICATOR |
|-------------------------------|----------|----------|---------------|
| Optimal                       | <120     | <80      | 1             |
| Normal                        | 120-129  | 80-84    | 2             |
| High-Normal                   | 130-139  | 85-89    | 3             |
| Grade 1 Hypertension          | 140-159  | 90-99    | 4             |
| Grade 2 Hypertension          | 160-179  | 100-109  | 5             |
| Grade 3 Hypertension          | ≥ 180    | ≥ 110    | 6             |

WHO/ISH Definitions and Classification of Blood Pressure Levels

**Note:** The guidelines are not intended to be used as a basis for self-diagnosis or emergency conditions but only to differentiate between general classifications of blood pressure levels.

### 13. TECHNICAL ALARM DESCRIPTION

The device will show 'HI' or 'Lo' as a technical alarm on the LCD, with no delay, if the determined blood pressure (systolic or diastolic) is outside the range stated in the “SPECIFICATIONS” section. In this case, you should consult a doctor or check to ensure you have followed the instructions.

The technical alarm is preset and cannot be adjusted or deactivated.

The technical alarm is non-latching and does not require a reset. The signal displayed on the LCD will disappear automatically after about eight seconds.

### 14. TROUBLESHOOTING

| PROBLEM                           | POSSIBLE CAUSE                                                            | SOLUTION                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| LCD display shows abnormal result | The cuff position was not correct or it was not properly tightened.       | Apply the cuff correctly and try again.                                                  |
|                                   | Body posture was not correct during testing.                              | Review the “BODY POSTURE DURING MEASUREMENT” section of the instructions and re-test.    |
|                                   | Speaking, arm or body movement, angry, excited or nervous during testing. | Re-test when calm, without speaking or moving during the test.                           |
|                                   | Irregular heartbeat (arrhythmia).                                         | It is not suitable for people with severe arrhythmia to use this blood pressure monitor. |

| PROBLEM                                                                                                          | POSSIBLE CAUSE                                                  | SOLUTION                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| LCD shows low battery symbol  | Low battery.                                                    | Change the batteries.                                                                                                         |
| LCD shows “Er 0”                                                                                                 | Pressure system is unstable before measurement.                 | Do not move and try again.                                                                                                    |
| LCD shows “Er 1”                                                                                                 | Failure to detect systolic pressure.                            |                                                                                                                               |
| LCD shows “Er 2”                                                                                                 | Failure to detect diastolic pressure.                           |                                                                                                                               |
| LCD shows “Er 3”                                                                                                 | Pneumatic system blocked or cuff is too tight during inflation. | Apply the cuff correctly and try again. If the device is still abnormal, please contact the local distributor or the factory. |
| LCD shows “Er 4”                                                                                                 | Pneumatic system leakage or cuff is too loose during inflation. |                                                                                                                               |
| LCD shows “Er 5”                                                                                                 | Cuff pressure above 300 mmHg.                                   | Measure again after five                                                                                                      |

|                                                    |                                                                                  |                                                                                                                               |
|----------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| LCD shows “Er 6”                                   | More than three minutes with cuff pressure above 15 mmHg.                        | minutes. If the device is still abnormal, please contact the local distributor or the factory.                                |
| LCD shows “Er 7”                                   | Inner memory error.                                                              |                                                                                                                               |
| LCD shows “Er 8”                                   | Device parameter checking error.                                                 |                                                                                                                               |
| LCD shows “Er A”                                   | Pressure sensor parameter error.                                                 |                                                                                                                               |
| LCD shows “Er b”                                   | Bluetooth connection unsuccessful, device is abnormal, or strong EMI is present. | Reset iOS/Android device. Reset device. Make sure the device and iOS/Android device are away from other electrical equipment. |
| No response when you press button or load battery. | Incorrect operation or strong EMI.                                               | Take out batteries for five minutes, then reinstall all batteries.                                                            |

## MAINTENANCE

- ⚠️ Avoid dropping or subjecting the device to substantial impacts.
- ⚠️ Avoid high temperatures and prolonged exposure to direct sunlight. Do not immerse the device in water, which will damage it.
- ⚠️ Changes or modifications not approved by the manufacturer will void the user's warranty. Do not disassemble or attempt to repair the device or its components.
- ⚠️ Remove the batteries if the device is not used for longer than one month to avoid damage due to battery leakage.
- ⚠️ It is recommended that the device's performance be checked every two years.
- Clean the device and cuff with a dry, soft cloth or a soft cloth dampened with water, disinfectant alcohol, or diluted detergent (wring out the cloth to remove as much liquid as possible before wiping the device and cuff ).
- Never dry the cuff in a clothes dryer or iron it. It is recommended that the cuff be cleaned after it has been used approximately 200 times. Disinfecting is recommended if the cuff is used in a hospital or a clinic. Wipe the cuff's inner side (the side that contacts the skin) with a soft cloth, lightly moistened with Ethyl alcohol (75% - 90%). Then, air-dry the cuff.
- Please wait two hours before use when moving the device between extreme temperatures (e.g., storage, during transport) to a normal operating environment.
- The device shall not be serviced or maintained while in use.

## EXPLANATION OF SYMBOLS ON UNIT



Symbol for “THE INSTRUCTION MANUAL MUST BE READ”  
(The sign background-color: blue. The sign graphical symbol: white)



Symbol for “TYPE BF APPLIED PARTS” (The cuff is type BF applied part)



Symbol for “ENVIRONMENT PROTECTION”. Electrical products should not be disposed of as household waste. Please recycle where facilities exist. Check with your local Authority or retailer for recycling advice.”



Symbol for “ MANUFACTURER ”



Symbol for “ DATE OF MANUFACTURE ”



Symbol for “ SERIAL NUMBER ”

IP21

The first characteristic numeral symbol for “Degrees of protection against access to hazardous parts and against solid foreign objects.” The second characteristic numeral symbol for “Degrees of protection against ingress of water.”



Symbol for “ MR Unsafe ”



Symbol for “CLASS II equipment”



Symol for “Polarity of d.c. power connector”

CE 0197

Symbol for “COMPLIES WITH REGULATION (EU) 2017/745”



Symbol for “ Authorized representative in the European Community/European Union ”



Symbol for “Unique device identifier”



Symbol for “Medical device”

## WARRANTY INFORMATION

Only charge the cost of components and transport.



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|    |     |
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|----|-----|

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### ECTROMAGNETIC COMPATIBILITY INFORMATION

- This medical device meets the following essential performance requirements:
  1. Limits of the error of the cuff pressure indication.
  2. Reproducibility of the blood pressure determination.
- When EMI affects the above performance, please stop using the device.
- Use of this equipment adjacent to, or stacked with, other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they usually operate.
- Use of accessories, transducers, and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.”
- Equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.”

**Table 1 – Emissions**

| Phenomenon                          | Compliance                  | Electromagnetic Environment |
|-------------------------------------|-----------------------------|-----------------------------|
| RF emissions<br>conducted emissions | CISPR 11<br>User 1, Class B | Home healthcare environment |

**Table 2 – Enclosure Port**

| Phenomenon                                       | Basic EMC Standard | Immunity Test Levels                             |
|--------------------------------------------------|--------------------|--------------------------------------------------|
|                                                  |                    | Home Healthcare Environment                      |
| Electrostatic Discharge                          | IEC 61000-4-2      | ±8 kV contact<br>±2 kV, ±4 kV, ±8 kV, ±15 kV air |
| Radiated RF EM field                             | IEC 61000-4-3      | 10 V/m<br>80 MHz to 2.7 GHz<br>80% AM at 1 kHz   |
| Proximity fields from RF wireless communications | IEC 61000-4-3      | Refer to Table 3                                 |

|                                       |                |                          |
|---------------------------------------|----------------|--------------------------|
| equipment                             |                |                          |
| Rated power frequency magnetic fields | IEC 61000-4-8  | 30 A/m<br>50 Hz or 60 Hz |
| Proximity magnetic fields             | IEC 61000-4-39 | Refer to Table 5         |

**Table 3 – Proximity Fields from RF Wireless Communications Equipment**

| Test frequency (MHz) | Band (MHz) | Immunity Test Levels                          |
|----------------------|------------|-----------------------------------------------|
|                      |            | Professional healthcare facility environment  |
| 385                  | 380-390    | Pulse modulation 18 Hz, 27 V/m                |
| 450                  | 430-470    | FM, $\pm 5$ kHz deviation, 1 kHz sine, 28 V/m |
| 710                  | 704-787    | Pulse modulation 217 Hz, 9 V/m                |
| 745                  |            |                                               |
| 780                  |            |                                               |
| 810                  |            |                                               |
| 870                  | 800-960    | Pulse modulation 18 Hz, 28 V/m                |
| 930                  |            |                                               |
| 1720                 |            |                                               |
| 1845                 |            |                                               |
| 1970                 | 1700-1990  | Pulse modulation 217 Hz, 28 V/m               |
| 2450                 |            |                                               |
| 5240                 |            |                                               |
| 5500                 |            |                                               |
| 5785                 | 5100-5800  | Pulse modulation 217 Hz, 9 V/m                |
|                      |            |                                               |

**Table 4 – Input AC Power Port**

| Phenomenon                                  | Basic EMC Standard | Immunity Test Levels                                                                                         |
|---------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------|
|                                             |                    | Home Healthcare Environment                                                                                  |
| Electrical fast transients/burst            | IEC 61000-4-4      | $\pm 2$ kV<br>100 kHz repetition frequency                                                                   |
| Surges (line-to-line)                       | IEC 61000-4-5      | $\pm 0.5$ kV, $\pm 1$ kV                                                                                     |
| Conducted disturbances induced by RF fields | IEC 61000-4-6      | 3 V, 0.15 MHz to 80 MHz<br>6 V in ISM and amateur radio bands between 0.15 MHz and 80 MHz<br>80% AM at 1 kHz |
| Voltage dips                                | IEC 61000-4-11     | 0% $U_T$ ; 0.5 cycle<br>At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°                                     |
|                                             |                    | 0% $U_T$ ; 1 cycle<br>and<br>70% $U_T$ ; 25/30 cycles<br>Single phase: at 0°                                 |
| Voltage interruptions                       | IEC 61000-4-11     | 0% $U_T$ ; 250/300 cycles                                                                                    |

**Table 5 - Test Specifications for Enclosure Port Immunity to Proximity Magnetic Fields**



| Test Frequency | Modulation               | Immunity Test Level (A/m) |
|----------------|--------------------------|---------------------------|
| 30 kHz         | CW                       | 8                         |
| 134, 2 kHz     | Pulse modulation 2,1 kHz | 65                        |
| 13, 56 MHz     | Pulse modulation 50 kHz  | 7.5                       |

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