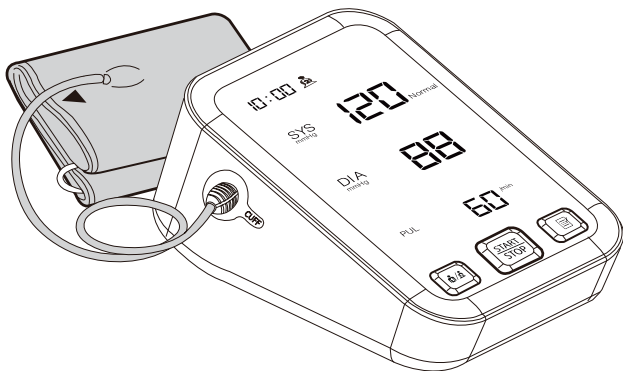


Upper Arm Electronic Blood Pressure Monitor

(YP10 Series)

User Manual



Document No.: H-25-02-7001
Version: A0

Foreword

Respected customer, thank you very much for purchasing the Upper Arm Electronic Blood Pressure Monitor.

This User Manual includes the product's usage instructions and technical descriptions. It describes the product's characteristics and requirements, main structure, performance, specifications, correct methods of transportation, installation, use, operation, maintenance, storage, as well as safety measures for protecting the operator and the product. For detailed content, please refer to each chapter.

In order to use this product safely, please be sure to carefully read the User Manual before use and follow the relevant requirements in the manual. After reading, please keep it properly for easy reference at any time. This User Manual will inform you of the necessary operating steps when using our company's products, operations that may lead to abnormalities, and dangers that may damage the product or cause harm to people.

Our company will not be responsible for safety, reliability, and performance guarantees, nor will it provide free maintenance for such failures caused by not using, maintaining, or storing in accordance with the requirements of this User Manual.

(The paper version of this User Manual is provided with the goods. If users need an electronic version, they can contact our company's technicians for provision.)

Declaration

The Upper Arm Electronic Blood Pressure Monitor underwent clinical investigation in accordance with the requirements of ISO 81060-2:2018+A1:2020+A2:2024

They have passed systematic effectiveness clinical verification. Their safety and effectiveness comply with relevant national regulatory requirements. For the performance verification methods claimed by the product, you can contact the technical department of the manufacturer to obtain them.

The blood pressure values measured by this product and the measurement level of the auscultatory method. The error meets the requirements specified in IEC 80601-2-30 : 2018.

Chapter 1 Safety

1.1 Warnings

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

- 01) Before use, please check the blood pressure monitor first. If any abnormal operation of the Host or damage to the appearance of the cuff is found, stop using it immediately.
- 02) The blood pressure monitor is not a treatment device. This product is only used as an auxiliary in diagnosis and is used for daily monitoring of human blood pressure.
- 03) Please follow the doctor's instructions and do not perform self-diagnosis and treatment based on the measurement results. Self-diagnosis may worsen the condition.
- 04) The product is intended for use only in adults, and is not intended for use in children, neonates, or pregnant patients (including those with preeclampsia).
- 05) Please do not use this product in places with flammable gas or high-concentration oxygen environment that are prone to fire or explosion.
- 06) Do not use this product in an environment with strong electric fields or strong magnetic fields, such as around high-frequency surgical equipment, around nuclear magnetic resonance imaging, and around CT scanners. And do not use mobile phones or other devices that emit electromagnetic fields nearby. Using this product in an inappropriate environment may interfere with surrounding radio devices or affect the measurement accuracy of this product.
- 07) If you feel unwell during the measurement process or think the measured value is abnormal, stop using it and consult a doctor.
- 08) For patients who have had breast removal or lymph node removal surgery, pressurization of the cuff on the side arm may cause physical discomfort or errors in the measurement results.
- 09) Do not wrap the cuff on an arm with wounds, inflammation, or on which intravenous drip or blood transfusion is being administered, as it may worsen the symptoms.
- 10) Do not use this product on the limbs of patients undergoing intravascular intervention or treatment, or arteriovenous (A-V) shunt, because cuff application and pressurization temporarily interfere with blood flow and can cause injury to the patient.
- 11) During use, place the cuff air tube flat and pay attention not to bend the pipeline. Do not pressurize until the cuff is correctly worn on the arm. Otherwise, the cuff pressure caused by bending may interfere with blood flow and cause harm to the patient.
- 12) Due to blood flow interference, too frequent measurement may cause injury to the patient, resulting in poor blood circulation or bruising.
- 13) Do not use other medical devices on the same limb at the same time, because cuff pressurization may cause temporary loss of function of other medical devices.
- 14) Please confirm (for example, by observing the bound limb) whether the operation of this product does not cause long-term damage to the patient's blood circulation. Patients with circulatory disorders and blood pressure diseases should use it under the guidance of a doctor.
- 15) Continuous cuff pressure caused by bending of the connecting pipeline may lead to effects on blood flow and harm to the patient (such as bruising on the arm, discomfort, peripheral vascular obstruction, etc.).
- 16) If the blood pressure monitor is pressurized to above 300 mmHg (40 kPa) but there is no automatic exhaust, please untie the cuff by yourself.
- 17) Although all parts expected to contact the human body have undergone biological evaluation and the biological safety meets the standard requirements, very few users may have allergic reactions. If an allergic reaction occurs, please stop using it immediately and consult a doctor.
- 18) Please store the product in a place beyond the reach of people with disabilities, children, infants and pets, to prevent them from ingesting parts by mistake or getting their bodies entangled by the cuff tube, which may cause strangulation or even suffocation.
- 19) To prevent environmental pollution, please follow local laws and regulations for the disposal of

scrapped products and packaging waste of this product and its accessories.

20) The patient is the expected operator and can operate the relevant functions and perform maintenance of the instrument according to the instructions.

21) Do not perform maintenance during the use of the product.

22) This product is only repaired by professional maintenance personnel designated by the manufacturer. Users are not allowed to repair or modify this product by themselves.

23) Any serious incident that occurs in relation to this product should be reported to both the manufacturer and the competent authority of the Member State where you (the user and/or patient) are established.

1.2 Cautions

⚠ Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient, or cause damage to the equipment or other property.

01) Before using this product, ensure that it is in a normal working state and operating environment. If it is stored or used outside the temperature and humidity range specified by the manufacturer, it may affect the performance of the blood pressure monitor.

02) When the ambient temperature is 20 °C, the time required for the product to be ready for its intended use from the minimum or maximum storage temperature after use is at least 4 hours.

03) Please use this product correctly according to this User Manual. Any blood pressure reading may be affected by the measurement site, patient's posture (standing, sitting, lying down), exercise or patient's physiological condition.

04) This product may not be suitable for everyone. If satisfactory measurement cannot be achieved, please give up using it.

05) Common arrhythmias such as ventricular premature beats or atrial fibrillation, arteriosclerosis, poor perfusion, diabetes, age, kidney disease, patient movement, shivering, trembling and other environmental or operational factors may affect the performance of the monitor and its readings. In such cases, please consult your physician before using the product for professional judgment.

06) Patients with severe blood circulation disorders and blood diseases should use it under the guidance of a doctor. The pulse displayed by this blood pressure monitor is not suitable for acting as a frequency stabilizer for detecting heart rate.

07) Patients with weak pulse or severe arrhythmia may not be able to measure blood pressure.

08) Disordered atrial rate and frequent multiple ventricular premature beats may affect the measurement results.

09) Diseases such as diabetes, hyperlipidemia, and hypertension will accelerate arteriosclerosis and may also cause peripheral circulatory disorders. There may be a large difference in blood pressure values between the wrist and upper arm of these patients.

10) This product does not need to be installed or used in combination with other medical devices.

11) Do not strongly impact or drop the Host.

12) This product cannot be used for continuous measurement as a monitoring device.

13) Do not operate this product with sharp objects.

14) When changing from a cold environment to a warm and humid environment, do not use this product immediately. It is recommended to wait at least 4 hours.

15) Do not disinfect this product with high temperature, high pressure, gas fumigation or liquid immersion. Please refer to chapter (6) of the User Manual for cleaning and disinfection.

16) During the measurement process, if some abnormal situation prompts appear on the screen, please refer to the troubleshooting methods in chapter (7) of the User Manual. If the problem still cannot be solved, please contact the dealer or the after-sales service department of the manufacturer. Do not disassemble and repair it by yourself.

17) Do not use this product in a moving environment such as in a car or on an airplane. It may lead to inaccurate measurement or malfunction.

18) Do not use parts not provided by the manufacturer to replace the original parts. Measuring with non-special accessories or disassembling the machine by yourself may cause measurement errors and inaccuracy of results. If necessary, please contact the manufacturer for replacement.

19) When not in use, please keep the blood pressure monitor in the packaging box. When not using this machine for a long time, please turn off the power.

20) The accuracy of this blood pressure monitor has been strictly tested before leaving the factory. Generally, it is recommended to test and calibrate the blood pressure monitor once a year to ensure that the function of the blood pressure monitor can be used normally and the measurement accuracy can be guaranteed.

1.3 Notes

Provides application tips or other useful information to ensure that you get the most from your product.

1.4 Device and Label Symbols

Symbol Marking	Definition	Symbol Marking	Definition
	Manufacturer	IP22	Shell protection level
	Date of manufacture	— — —	Direct Current (DC)
	Expiration date		Fragile, handle with care
SN	Serial Number	↑	Upward
LOT	Production batch number		Avoid rain
	Warning		Vulnerable to sunlight
	Caution: Consult accompanying document		Temperature limit
	Refer to the User Manual		Humidity limit
	Type BF applied part		Atmospheric pressure limit
EU REP	Authorized representative in the Europe	CE 0598	CE Mark
	WEEE symbol. The device accessories and the packaging have to be disposed of waste correctly at the end of the usage. Please follow Local Ordinances or Regulations for disposal.		Paper recyclable
MD	Medical device		

Chapter 2 The Basics

2.1 Intended Purpose

The Upper Arm Electronic Blood Pressure Monitor is intended for measuring the systolic and diastolic blood pressure and pulse rate of an adult individual using a non-invasive technique with an inflatable cuff wrapped around the upper arm. The Measured values are for diagnostic reference.

Intended Users: Both Healthcare Professional and layperson.

Intended Patient Population: Adults.

Environments of Use: The device is expected to use in the home and hospital.

Medical Indication: For intermittent measurement of human blood pressure from the upper arm.

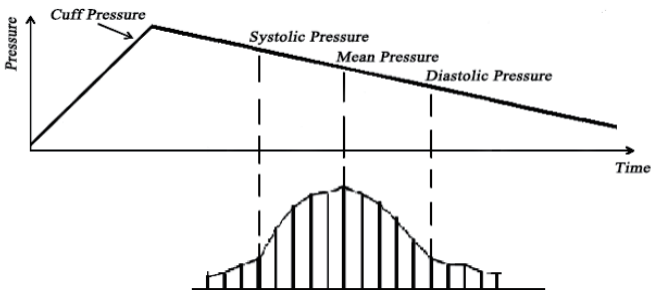
Clinical benefit: Measuring body blood pressure helps diagnose human body conditions.

2.2 Contraindications

- (1) The device should not be used for patients with arrhythmia.
- (2) The device is not suitable for infants and neonates.
- (3) Individuals unable to express themselves should not use the device.
- (4) Do not use a blood pressure monitor during MRI.

2.3 Measurement Principle

The working principle of the blood pressure monitor adopts the oscillometric method. According to the characteristics of vibration waves generated when blood flows through blood vessels, the cuff is inflated and pressurized. The inflatable cuff is used to compress the arterial blood vessels to make the brachial artery completely blocked. Then open the deflation valve and slowly reduce the pressure in the cuff. As the pressure in the cuff decreases, the brachial artery shows a change process of "completely blocked - gradually opened - fully opened". The pressure change is obtained through the pressure sensor and converted into an electrical signal. After being processed by the processor, the measurement result is displayed on the display screen. During the decompression process, the change trend of the amplitude of pressure in the artery is shown in the figure below:



2.4 Model Specifications

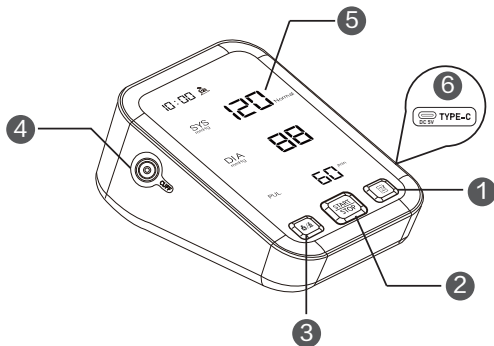
Model Configuration	YP7101	YP7201	YP7202
Display screen type	LED	LCD	LCD
Main function	Historical record group number	Blood pressure and pulse rate measurement	Blood pressure and pulse rate measurement
Working principle	Oscillometric method	Oscillometric method	Oscillometric method
Measurement method	Decompression method	Decompression method	Decompression method
Measurement part	Upper Arm	Upper Arm	Upper Arm
Power supply voltage	Li-ion battery DC 3.7V	Li-ion battery DC 3.7V	Li-ion battery DC 3.7V
Voice prompt	Supported	Supported	Supported
Backlight display	/	/	Yes
Historical record group number	2 users×120 groups	2 users×120 groups	2users×120 groups
Host dimension	138mm(L)× 102mm(W) × 61.5mm(H)		

2.5 Product Introduction

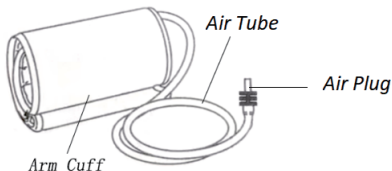
The product consists of a main unit and an arm cuff. The cuff is considered as Type BF applied part.

2.5.1 Main unit

- ① [Memory] button
- ② [START/STOP] button
- ③ [User ID] button
- ④ Air Socket
- ⑤ Display
- ⑥ Type-C Socket



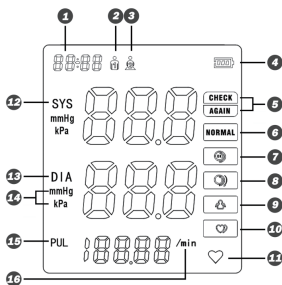
2.5.2 Arm Cuff



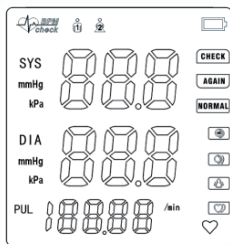
⚠ Caution :

- a) Only provided cuff can be used, not change to any other branded cuff; otherwise, measurement errors may occur.
- b) If any abnormal situations such as air leakage or poor stickiness of the cuff are found during use, please replace it with the same special cuff in time.
- c) Under normal circumstances, it is recommended that the cuff be used 5,000 times, or be replaced every 2 years.
- d) The cuff is a detachable part. Do not replace it with cuffs of other specifications privately; otherwise, the use of the device may be affected. If necessary, contact the manufacturer.

2.5.3 Display



(1) LCD Display



(2) LED Display

1	Date and Time (only LCD display)	
2		User1/User 2 Symbol: The user ID symbol appears when selecting the user with the [ ] button.
3		
4	Battery symbol	Refer to Section 3.2
5		Indicate hypertension or elevated blood pressure. Please check again.
6		Displays when the measurement is normal.
7		Cuff OK
8		Cuff Loose If it appears, re-wear the cuff properly.
9		Movement error symbol Appears with your reading when your body is moving during a measurement. If it appears, remove the cuff and wait for 2 to 3 minutes. Then, reapply the cuff, remain still and measure again.
10		Irregular heartbeat symbol
11		Heartbeat symbol Flashes while taking a measurement.
12	SYS	Systolic Blood Pressure reading
13	DIA	Diastolic Blood Pressure reading
14	mmHg /kPa	Pressure Unit
15	PUL	Pulse Display Pulse rate appears after the measurement.
16	/min	PR Unit

Note: The User Manual describes the common functions that most models have. Your product may not have some of these functions, and the illustrations may be different from the actual product. Please refer to the physical object.

2.5.4 Packaging List

All products are packed in the packaging box. Before use, please check whether the main unit and accessories are complete according to the packaging list. If you find that the following information is inconsistent with the physical object, please contact the manufacturer.

No.	Packing List	Quantity
1	Main Unit	1
2	Arm Cuff	1
3	User Manual	1
4	Type-C Cable	1

Chapter 3 Installation and Usage Instructions

3.1 Pre-Use Inspection

- (1) Accessory Inspection: Please check whether the items in the package are consistent with the accessory list;
- (2) Startup Inspection: Press the [START/STOP] and check whether it can start up normally;
- (3) Main Unit Inspection: Please check whether the appearance is intact, there should be no obvious scars, scratches and other defects, and the buttons should be flexible and reliable;
- (4) Cuff Inspection: Please check whether the cuff and the air socket are intact and whether there is any air leakage.

3.2 Device Charging

- (1) When the battery level of the device is too low, "Lo" will be displayed on startup, and the voice prompt will be broadcast: "The battery level is too low. Please charge it in time";
- (2) Connect one end of the Type-C charging cable to the power adapter, and insert the other end into the Type-C interface of the main unit to charge the device;
- (3) The LCD model: When  flashes, the battery is depleted and the device will automatically shut down. When  appears, the battery level is low. Please charge it in time. During the charging process, the battery level is dynamically displayed. When the battery is fully charged, the symbol  displays.
The LED model: When  flashes, the battery is depleted and the device will automatically shut down. The symbol  flashes during charging. After charging is completed, the symbol  stops flashing.
- (4) After the device is fully charged, unplug the power supply in time and it is ready for measurement.

Caution :

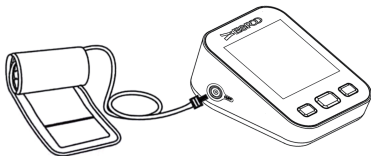
- All functions of the device cannot be used normally during the charging process.

Precautions for the Use and Charging of Lithium Batteries:

- (1) The device is not equipped with an adapter but only a Type-C cable. If you need to charge the device, please select an adapter that should comply with the requirements of IEC60601-1 (Input: AC100-240V, 50/60Hz Output: DC5V, 1A). If there are problems caused by improper adapter selection, you are responsible for the consequences.
- (2) After the lithium battery is placed for a period of time, it will enter a dormant state. At this time, the capacity is lower than the normal value, and the usage time is also shortened. However, the lithium battery is very easy to activate. As long as it undergoes 3-5 normal charge and discharge cycles, the battery can be activated and the normal capacity can be restored.
- (3) Please complete a charging cycle for the lithium battery every month.
- (4) A fully charged lithium battery enables approximately 300 measurements. Based on 2 measurements per day (3 sets each), it lasts for about 1.5 months. (Battery life and charging cycles may vary depending on usage and settings.)
- (5) Lithium battery service life depends on usage frequency and duration. If battery runtime decreases significantly and affects normal measurement, please contact after-sales service for battery replacement.
- (6) The lithium battery is expected to be repaired and disassembled by professional maintenance personnel using tools. Users should not replace the lithium battery by themselves, and replacing the battery by untrained personnel or incorrectly may cause hazards (such as overtemperature, fire, or explosion). If you need to replace it, contact the manufacturer.
- (7) Do not use the device in an environment with too high or too low temperature. The recommended working environment temperature is between 5°C and 40°C.

3.3 Cuff connection

Ensure that the air plug is properly inserted into the air socket of main unit.



⚠ Caution :

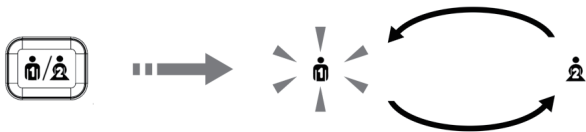
- Do not bend the cuff and the cuff air socket forcefully, which may affect the correct measurement;
- When removing the air socket, please pinch the air plug and pull it out with appropriate force.

3.4 System Setting

Before performing system settings, please ensure that the battery of the blood pressure monitor is fully charged and it can start up normally. The system setting operations are as follows:

3.4.1 User Setting

Press button [ / ] when power off, the screen will display the current user group  or  flashily; and then press button [ / ] again to switch between  and .



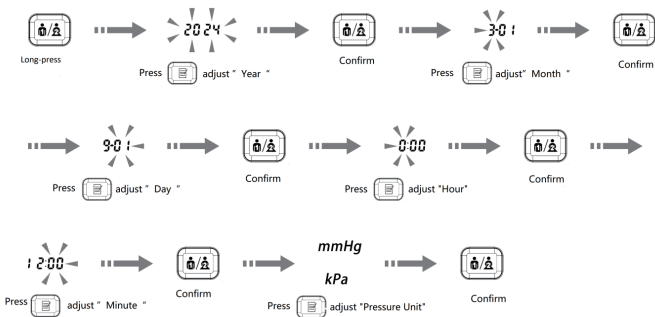
Note: If there is no operation within 5 seconds, the product will automatically shut down and default to saving the currently flashing user group as the stored user.

3.4.2 Date/Time and Unit Setting

Long -press the [ / ] button when powered off to enter the setting interface, and the current setting items ("Year") will flash. The sequence of setting items is "Year", "Month", "Date", "Hour", "Minute", and "Pressure Measurement Unit".

- (1) Press the [] button to adjust the year. "Year" can be adjusted from 2024 to 2054.
- (2) Press the [ / ] button to confirm the year, then the month will flash. Repeat the same steps to adjust the month, day, hour, minute and Pressure Unit.
- (3) Press the [ / ] button to store the setting.
The device automatically turns off 3 seconds after the pressure unit have been set in this sequence.

Refer to the picture below:

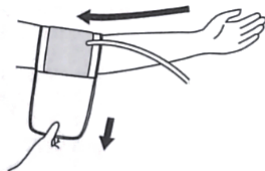


3.5 Precautions Before Measurement

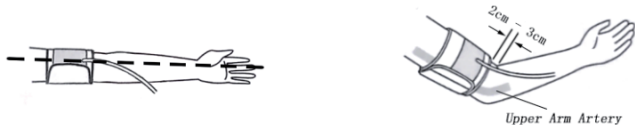
- (1) Please sit quietly for 5 minutes before measurement.
- (2) Avoid eating, smoking, and vigorous exercise within 30 minutes before measuring blood pressure.
- (3) In the same day, human blood pressure values will change over time. To ensure the reliability of the measurement results, please measure at the same time period every day.
- (4) Please maintain the correct sitting posture during measurement. Keep quiet during the measurement process. Do not speak, move your arm or body.
- (5) Since there is a difference in blood pressure values between the left and right arms of the human body, please measure on the same arm each time (usually the left arm).
- (6) For continuous measurement, loosen the cuff to allow the arm to rest for at least 5 minutes before measuring again.
- (7) When the airbag is in a persistently over-inflated state, it may cause arm pain, numbness, and even congestion.
- (8) The size of this machine's cuff is suitable for adult arm circumference. It cannot be used for people with arm circumference exceeding the applicable range.
- (9) Indoor temperature, environment, noise, measurement posture, cuff binding, measurement position, body movement, electric field environment, and speech all have an impact on the measurement.

3.6 Wrapping the Cuff

1. Insert the left arm into the cuff in the direction shown in the figure and tighten the cuff. The tightness should be such that two fingers can be inserted.



2. Place the cuff correctly. Keep the connection between the cuff and the air tube in a straight line with the middle finger. When wearing it, the edge of the cuff should be 2 to 3 cm upward from the inside of the upper arm elbow joint.



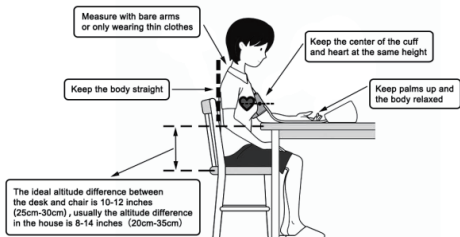
Notes :

- a) Please refer to the cuff size in the User Manual to determine that you are using a suitable cuff.
- b) Blood pressure can be measured on both the left and right arms.
- c) During the measurement process, please be careful not to touch the air catheter.
- d) The blood pressure on the right arm and the left arm may be different, so the measured blood pressure values may also be different. It is recommended to always choose to measure the same arm. If there is a significant difference in the measurement data of the two arms, consult a doctor to choose which arm to measure.
- e) To ensure the accuracy of the measurement results, please measure with the arm exposed or only wearing thin clothes. When wearing thick clothes, do not roll up the sleeve for measurement. Take it off before measuring.

3.7 Correct Measurement Posture

To take a measurement, you need to be relaxed and comfortably seated in a room with a comfortable temperature.

- ① Place your arm on the table.
- ② Sit in a comfortable chair with your back and arm supported.
- ③ Keep your feet flat on the ground and your legs uncrossed.
- ④ The arm cuff should be placed on your arm at the same level as your heart, with the arm resting comfortably on a table.



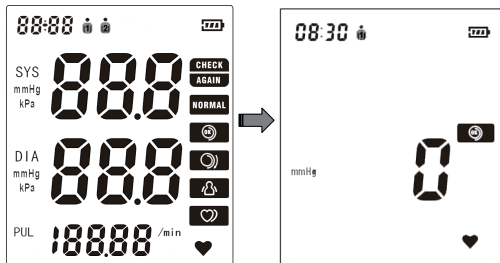
Notes :

- a) It is recommended that the patient remain relaxed and refrain from talking during the measurement procedure. Allow 5 minutes to elapse before taking the first reading and avoid compressing or restricting the connection tubing.
- b) Do not speak or move during the measurement process.

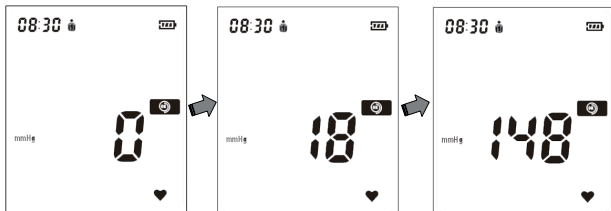
3.8 Measuring Procedure

After the cuff has been appropriately positioned, the measurement can begin:

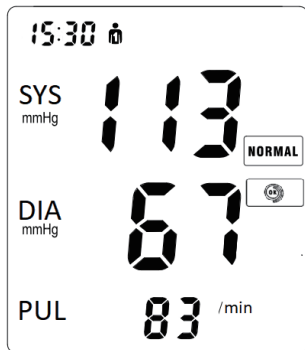
(1) Press the **[START/STOP]** button to power on. All symbols appear on the display before starting the measurement. The cuff starts to inflate automatically, the rising pressure in the cuff is shown on the display.



(2) Measurement start. When pressurized to stop blood flow, the Blood Pressure Monitor stops pressure before automatically leaking air and measuring blood pressure. The heartbeat symbol " ♥ " flashes when a pulse is detected. And then the Blood Pressure Monitor begins to calculate the pulse automatically.



(3) The blood pressure and pulse rate are displayed when the measurement completed. The cuff is deflated automatically, and all of the measurement results are stored in the memory.



(4) Press the **[START/STOP]** button to turn off the device. The main unit will be automatically turned off after 70 seconds if no more operation.

Note: The inflation or measurement can be stopped by pressing the **[START/STOP]** button at any time.

(5) If you no longer use the device for measurement, please remove the cuff. After the device is turned off, pull out the catheter plug from the device, put the air catheter into the cuff, and put the cuff and the main unit into the packaging box and store them properly.

⚠ Caution :

1) DO NOT use this monitor with other medical electrical (ME) equipment simultaneously. This may result in incorrect operation of the monitor and/or cause an inaccurate reading.

2) Remain still and DO NOT talk while taking a measurement.

3) Do NOT roll up the air tube on the main unit.

4) If you feel uncomfortable during the measurement process, immediately press the **[START/STOP]** button to stop the measurement, and the cuff will deflate automatically.

5) Allow at least 5 minutes between two measurements. Depending on individual physiological characteristics, a longer rest time may be necessary.

6) Due to the fluctuation of blood pressure, the measurement results will be different each time. If the user's blood pressure fluctuates greatly, it is best to measure three times and take the average value as the blood pressure measurement value. Compared with occasional blood pressure measurement, the blood pressure measured by the above method can better represent the authenticity of human blood pressure.

7) Please ask a professional doctor to explain the measured blood pressure value.

3.9 Memory function

The blood pressure monitor automatically stores 2×120 sets measurement values after completing each measurement. The oldest record will be replaced by the latest measurement value when more than 120 sets each user.

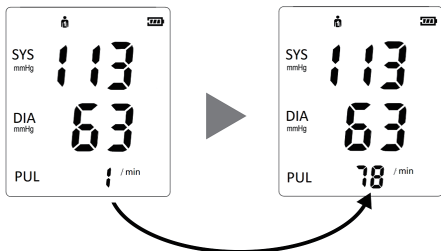
The main unit also calculates an average reading based on the values of the latest 3 measurements.

3.9.1 Read Memory record

(1) Press the  button when power off to enter the memory mode, and the average value of the latest 3 measurements for the current user will be displayed.

(2) Press the  button again, the last measurement value will be displayed, as well as subsequent measurements can be displayed one after the other by pressing the  button each time.

In the below figure, record number "1" represents the latest measurement result. The number will increase as the display of "newest" to "oldest" record values.



After the memory group serial number 1 is displayed for 1 second, the recorded pulse rate value is then displayed.

3.9.2 Switching User Record

Press the  button to switch and set the user group. After turning off the device, press the  button again to enter the memory query mode, and then you can view the record values of another user group.

3.9.3 Memory deletion

In the memory mode, Long-press the  button to delete all the memory values of the current user. If the following symbols are displayed on the main unit, all records are successfully deleted.



Note:

- a) Only delete all record values stored by the current user and will not affect the data of another user group.
- b) It is recommended that you make a blood pressure record before deleting the measured values for future reference.

Chapter 4 About Blood Pressure

4.1 Definition of Blood Pressure

Blood pressure is the pressure exerted on the arteries.

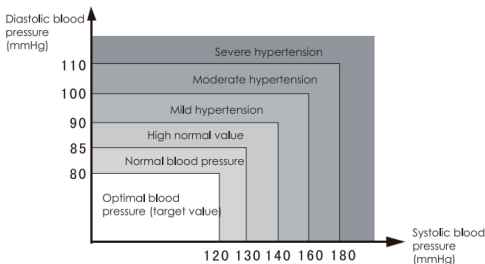
The systolic blood pressure value (higher pressure or top value) represents the blood pressure produced by contraction of the heart muscle.

The diastolic blood pressure value (lower pressure or lower value) represents the blood pressure produced by relaxation of the heart muscle.

4.2 Classification of Blood Pressure

According to the blood pressure classification by the WHO/ISH.

SYS lower than 100mmHg(13.3kPa) is considered as hypotension.



Note:

- This indicator is applicable for measurement by home blood pressure monitors.

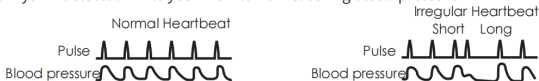
Warning:

- **NEVER** diagnose or treat yourself based on your readings. **ALWAYS** consult with your physician.

4.3 Irregular Heartbeat Symbol

When the unit detects an irregular rhythm two or more times during the measurement, the irregular heartbeat Symbol “” will appear on the display with the measurement values.

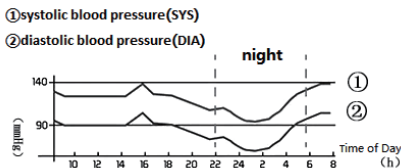
An irregular heartbeat rhythm is defined as a rhythm that is 25 % less or 25 % more than the average rhythm detected while your monitor is measuring blood pressure.



- Irregular heartbeat symbol “” may be displayed when the monitor detects arm movements. Apply the arm cuff correctly, Remain still and sit correctly, then measure again.
- If it continues to appear, we recommend you to consult with and follow the directions of your physician.

4.4 Fluctuation of Blood Pressure in a Day

Everyone's blood pressure can change greatly depending on the season, temperature, or mood. This is especially obvious in hypertensive patients. Generally, blood pressure rises during work and drops to the lowest during sleep. The following figure shows the approximate fluctuation range of human blood pressure within a day.



4.5 Blood Pressure and Health

Blood pressure is constantly changing under the influence of daily life. If a high blood pressure state persists for a long time, it will accelerate arteriosclerosis and easily cause dangerous diseases such as stroke or myocardial infarction. Therefore, it is necessary for us to understand our own blood pressure status and maintain a healthy and good lifestyle.

The following are possible causes of abnormally high blood pressure:

- Excessive consumption of salt;
- Excessive alcohol consumption;
- Overweight;
- Lack of physical exercise;
- High cholesterol level;
- Smoking;
- Stress and emotional upset;
- Genetic / hereditary predisposition;
- Underlying illnesses, such as kidney disorders or endocrine disturbance.

4.6 FAQ about Blood Pressure

Q1: Why is the blood pressure value measured at home higher than that measured in the hospital?

A1: Please confirm whether you have taken antihypertensive drugs before measurement? For users who take antihypertensive drugs, when the drug effect expires, it will cause a high blood pressure value. Please follow the doctor's guidance for drug administration.

A2: Please check whether the cuff is wrapped in the correct position? Incorrect cuff wrapping position will cause the blood pressure monitor to inaccurately capture the arterial signal, thereby affecting the measured blood pressure value to be on the high side.

A3: Please check whether the cuff is wrapped too loosely? If the cuff is wrapped too loosely, the pressure generated by the internal pressurization of the cuff cannot be transmitted to the artery, which will lead to a high measured blood pressure value.

A4: Please confirm whether the measurement posture is correct? Incorrect measurement postures such as bending over, sitting cross-legged, measuring with the body tilted on a low table, etc. will generate abdominal pressure or cause the arm measurement position to be lower than the heart position, resulting in an increase in blood pressure value.

Q2: Why is the blood pressure value measured at home lower than that measured in the hospital?

A1: When measuring blood pressure in the hospital, people usually feel nervous. While measuring at home, the environment is comfortable and the mood is stable. Therefore, the value generally measured at home is 10-20 mmHg lower than that measured in the hospital. Therefore, it is necessary to understand one's normal blood pressure value at home.

A2: When the platform where the blood pressure monitor is placed is too high, causing the position of the cuff to be higher than the height of the heart, then the measured blood pressure value will be on the low side.

Q3: Why is the blood pressure value different every time it is measured?

A1: It may be because when continuous measurement is performed, the arm is oppressed and the blood circulation in the fingertips is not smooth, causing congestion, which leads to different blood pressure values for each measurement. When congestion occurs, please loosen the cuff and raise your hand above your head. Repeatedly perform about 15 movements of clenching and stretching your palm to unblock the congestion.

A2: Even when measuring at home, blood pressure will fluctuate due to various reasons. The following situations will all cause differences in measurement results :

- (1) within 1 hour after a meal;
- (2) after drinking alcohol, tea, or coffee;
- (3) after taking antihypertensive drugs;
- (4) after smoking;
- (5) after taking a bath;
- (6) after exercise;
- (7) after defecation or urination;
- (8) when feeling irritable due to nervousness or restlessness;
- (9) when the measurement site or environment is different from usual;
- (10) when the room temperature suddenly changes;
- (11) different ways of wrapping the cuff;
- (12) changed measurement posture;
- (13) talking during the measurement.

A3: In a day, even if blood pressure is measured every 10 minutes, it will change. In order to correctly manage blood pressure, please measure blood pressure at the same time period every day.

Q4: Does measuring blood pressure using the right or left arm affect the measurement results?

A: Blood pressure can be measured on both the right and left arms, but the measurement results of the left and right arms may vary from person to person. Therefore, please measure with the same arm every time, resulting in an increase in blood pressure value.

Q5: When is the best time to measure blood pressure?

A: The best time to measure blood pressure is generally within 1 hour after getting up in the morning or before going to bed at night. It should be noted that :

(1)If you choose to measure in the morning, please measure within 1 hour after getting up, before breakfast, and after urinating. If you are taking antihypertensive drugs, please measure before taking the medicine.

(2)If you choose to measure at night, please measure before going to bed.

(3)If you choose to measure at other times, please measure when your body and mood are in a stable state.

(4)And it is recommended to measure at the same time period every day.

Q6: Why does the arm feel pain and numbness when wrapping the cuff?

A: This is a temporary phenomenon. Don't worry. During blood pressure measurement, the cuff needs to be tightened until the blood flow in the artery is temporarily stopped, so the arm may feel some pain and numbness. After removing the cuff, take a break and the symptoms will be relieved.

Q7: What is the key to home blood pressure measurement management?

A: It is recommended that while recording daily blood pressure values, also record medication status and lifestyle habits. Recording blood pressure values every day can help you better understand your own blood pressure fluctuation trend and is conducive to health management. In addition, when being questioned by a doctor, providing your daily blood pressure data, medication status and lifestyle habits will make it more convenient for the doctor to make a correct diagnosis and adjust medication.

Chapter 5 Technical Specifications

Product Name	Upper Arm Electronic Blood Pressure Monitor
Model	YP7101, YP7201, YP7202
Display Method	Digital display method
Measurement Method	Oscillometric measurement method
Record Storage	2Users × 120 memories
1. Safety Classification	
Type of protection against electric shock	Internal power supply equipment
Degree of protection against electric shock	BF-type applied part, without defibrillation protection
Degree of protection provided by enclosure	IP22
Operating mode	Continuous
Degree of safety when used in the presence of flammable anesthetic gas mixed with air or flammable anesthetic gas mixed with oxygen or nitrous oxide	Non-AP/APG
Is it a non-permanently installed equipment?	Non-permanently installed equipment

2. Blood Pressure Measurement Specifications	
Pressure measurement range	0~290mmHg (0~38.7kPa) SYS:60mmHg~255mmHg (8.0kPa~34.0kPa) DIA:30mmHg~200mmHg (4.0kPa~26.7kPa)
Measurement accuracy	±3mmHg (±0.4kPa)
Resolution	1mmHg (0.1kPa)
3. Pulse Rate Measurement Specifications	
Measurement range	40~199bpm
Measurement accuracy	±5%
Resolution	1bpm
4. Power Supply Specifications	
Battery Type	Lithium ion battery
Rated voltage	DC 3.7V
Battery capacity	1200mAh
Power input requirements	Type-C, DC 5V, 1A
Operating time	At least 15 days under normal use and when fully charged.
Charging time	Maximum charging time of Li-ion battery is about 7 h.
5. Physical specifications	
Dimensions (length × width × height)	138mm×102mm×61.5mm
Weight	About 340g (excluding cuff)
Cuff size	Arm circumference 22 - 32cm Arm circumference 22 - 36cm
6. Environmental Conditions	
Operating environment: Operating temperature: 5°C - 40°C. Relative humidity: 15% - 85% (no condensation). Atmospheric pressure range: 70kPa - 106kPa.	Transport/Storage environment: Storage temperature: -20°C - 55°C. Relative humidity: 15% - 90% (no condensation). Atmospheric pressure range: 70kPa - 106kPa.
7. Service Life	
	5 years

Chapter 6 Maintenance and Care

Use only the materials and methods listed in this section to clean or disinfect the equipment. The Company does not provide any guarantee for damage or accidents caused by the use of other materials or methods.

- Keep your equipment and its accessories free of dust. To prevent damage to the equipment, be sure to follow the following rules:
- Please use diluted detergents and disinfectants as specified in the user's manual and minimize the concentration.
- Do not immerse the device in liquid.
- Do not pour liquid on equipment or accessories.
- Do not allow liquids to enter the housing.
- Do not use abrasive materials (such as steel wool) and any strong solvents (such as acetone).

6.1 Regular Maintenance

The designed service life of this blood pressure monitor is 5 years. To ensure the service life of the product, please pay attention to relevant maintenance.

1. When the blood pressure monitor is used up or not in use, please organize and store the blood pressure monitor and its accessories properly and place them properly.
2. The cuff contains an airbag with good air tightness. Therefore, please use it carefully and do not fold, pull or twist the cuff.
3. Please regularly check the product to ensure that there is no obvious damage that can affect safety or monitoring performance. It is recommended to check at least once a week. If there is obvious damage, stop using this product.
4. If the blood pressure monitor is splashed or there are water droplets condensed on the surface, please stop using it immediately.
5. Do not use sharp objects to touch the rubber air duct.
6. When the low voltage prompt appears, please charge it in time.
7. Please clean the blood pressure monitor when necessary.

6.2 Cleaning

The device should be cleaned regularly. Increase the cleaning frequency in regions with severe environmental pollution. Consult or learn about the hospital's regulations regarding equipment cleaning before cleaning.

The following detergents can be selected:

- Warm water
- Diluted soapy water
- Medical disinfectant ethanol (75%).

When cleaning the device:

1. Turn off the blood pressure monitor, disconnect the power cord.
2. Use a soft dry cloth or a soft cloth moistened with mild (neutral) detergent to clean your monitor and arm cuff and then wipe them with a dry cloth.
3. Do not wash or immerse your monitor and arm cuff or other components in water.
4. If necessary, wipe off needless detergent using a clean and dry lint-free rag.
5. Air dry this device in a ventilated and cool environment.

Warning

Before cleaning the device, power off and disconnect the power cable from the device.

6.3 Disinfection

To avoid damage to the device, it is recommended that the device be disinfected only when disinfection is deemed necessary according to your hospital's maintenance procedure. Clean the device before disinfection.

Disinfect the device shell and cuff using ethanol (75%).

Warning

- Do not use any gas (EtO), formaldehyde, o-phthalaldehyde, and methyl ethyl ketone for disinfection.
 - Do not perform high-pressure and high-temperature disinfection on the monitor, arm cuff and its accessories.
-

6.4 Calibration and Maintenance

1. The accuracy of this blood pressure monitor has been strictly tested before leaving the factory. Generally, it is recommended to test and calibrate the blood pressure monitor once a year to ensure that the function of the blood pressure monitor can be used normally and the measurement accuracy can be guaranteed.
2. Users can send the blood pressure monitor to a third-party testing institution with calibration qualifications or contact the after-sales department of the manufacturer to arrange professional personnel for calibration. If there are any questions about the validity of calibration, please contact the dealer or manufacturer.
3. This product has no parts that can be repaired by users. Please do not carry out any repairs by yourself. If there is a quality problem with the product or any questions about the correct measurement of the blood pressure monitor, please contact the dealer or manufacturer. If the product needs to be repaired, it can be repaired by qualified maintenance personnel designated by the manufacturer. The manufacturer can provide maintenance personnel with product technical data such as product circuit diagrams, component lists, and illustrations. These data can refer to the technical specifications. Please contact the manufacturer's technical personnel to provide them.

6.5 Transportation and Storage

1. The packaged product shall be transported and stored according to the transportation/storage environmental conditions specified in this User Manual. During transportation, avoid violent impact, vibration and rain and snow splashing. During transportation, it shall not be mixed and transported with toxic, harmful and corrosive substances.
2. Do not store the product and its accessories in places where water is easily splashed, high temperature, humidity, direct sunlight, much dust, chemical substances or corrosive gases are generated. Do not use this product in the above environment either.

6.6 Disposal

Regarding the scrapping scheme of the Host, accessories and separately sold products, please handle it in accordance with the relevant environmental protection regulations of the local city.

Chapter 7 Troubleshooting

Symbol	Cause	Correction
E1	The air tube is blocked or The cuff is wrapped tightly.	Please ensure that the air tube is unobstructed and correctly wrap the cuff and measure again.
E2	The cuff is wrapped loosely.	Check if the cuff is too loose. Please correctly wrap the cuff and measure again.
E3	Insufficient pulse is not detected.	Please check if there is clothing blocking the cuff and measure again.
E4	There is a large pressure fluctuation during the	Please measure again.measurement.
E5	Overvoltage protection occurs when the pressure is out of range.	Please ensure that the air tube is unobstructed and measure again. Do not touch the cuff during the pressurization process.
E6	Not calibrated, and software error.	After restarting the device, measure again. If "E6" is displayed again, please contact the dealer or manufacturer.
E7	Blood pressure measurement out of range	Please ensure that the air tube is unobstructed and measure again. Do not touch the cuff during the pressurization process.Consult a doctor if necessary.
E8	The prompt pressure exceeds the displayed pressure range, which is a technical tip and will disappear automatically.	Please ensure that the air tube is unobstructed and measure again. Do not touch the cuff during the pressurization process.
 Or 	Insufficient battery power.	Please charge in time.
The low voltage battery icon flashes.	The battery is exhausted.	Please charge in time.
Abnormal measurement value.	The cuff is worn in the wrong position or is not bound correctly.	Please refer to Section 3.6, re-wrap the cuff and measure again.
	The user talks, moves the arm or body, feels angry, excited or nervous during the measurement.	Please take a break and measure again after calming down. Do not talk or move your body during the measurement.
The buttons have no response.	The battery is exhausted or is about to be exhausted.	Please charge in time.
	Incorrect operation or there is strong electromagnetic interference.	Please press the [Start/Stop] button to restart the monitor and stay away from electromagnetic radiation sources.

Note:

If you have severe arrhythmia, it is very likely that the blood pressure value cannot be measured. If the normal measurement still cannot be achieved after handling according to the above methods, or if there is a fault other than the above, please contact the dealer or manufacturer for consultation. Do not disassemble and repair it by yourself without understanding the situation.

Chapter 8 EMC Declaration

The Upper Arm Electronic Blood Pressure Monitor complies with the requirement of standard IEC60601-1-2:2014+AMD1:2020 "Electromagnetic disturbances – Requirements and tests".

Instructions for use

The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare environments and so on.

Warning: Don't near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high.

Warning: 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 are operating normally.

Warning: 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."

Warning: Portable RF communications 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 Upper Arm Electronic Blood Pressure Monitor (Model:YP7202,YP7201,YP7101),including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

If any:a list of all cables and maximum lengths of cables (if applicable), transducers and other ACCESSORIES that are replaceable by the RESPONSIBLE ORGANIZATION and that are likely to affect compliance of the ME EQUIPMENT or ME SYSTEM with the requirements of Clause 7 (EMISSIONS) and Clause 8 (IMMUNITY). ACCESSORIES may be specified either generically (e.g. shielded cable, load impedance) or specifically (e.g. by MANUFACTURER and EQUIPMENT OR TYPE REFERENCE).

If any:the performance of the ME EQUIPMENT or ME SYSTEM that was determined to be ESSENTIAL PERFORMANCE and a description of what the OPERATOR can expect if the ESSENTIAL PERFORMANCE is lost or degraded due to EM DISTURBANCES (the defined term "ESSENTIAL PERFORMANCE" need not be used).

Technical description

- 1.all necessary instructions for maintaining BASIC SAFETY and ESSENTIAL PERFORMANCE with regard to electromagnetic disturbances for the excepted service life.
2. Guidance and manufacturer's declaration -electromagnetic emissions and Immunity.

Table 1

Guidance and manufacturer's declaration - electromagnetic emissions	
Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	Class A
Voltage fluctuations/ flicker emissions IEC 61000-3-3	N/A

Table 2

Guidance and manufacturer's declaration - electromagnetic Immunity		
Immunity Test	IEC 60601-1-2 Test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air
Electrical fast transient/burst IEC 61000-4-4	Power supply lines: ±2 kV 100 kHz repetition frequency	Power supply lines: ±2 kV 100 kHz repetition frequency
Surge IEC 61000-4-5	line(s) to line(s): ±1 kV.	line(s) to line(s): ±1 kV.
Voltage dips, short interruptions and voltage variations on power supply input lines	0% 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% 1 cycle And 70% 25/30 cycles Single phase: at 0 0% 300 cycle	0% 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% 1 cycle And 70% 25/30 cycles Single phase: at 0 0% 300 cycle
Power frequency magnetic field IEC 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz
Conducted RF * IEC61000-4-6	150KHz to 80MHz: 3Vrms 6Vrms (in ISM and amateur radio bands) 80% Am at 1kHz	N/A
Radiated RF IEC61000-4-3	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz
Proximity magnetic fields IEC 61000-4-39	30 kHz: 8A/m 134.2 kHz: 65A/m 13.56 MHz: 7.5A/m	30 kHz: 8A/m 134.2 kHz: 65A/m 13.56 MHz: 7.5A/m
NOTE UT is the a.c. mains voltage prior to application of the test level. Remark: “*” : Only test for Patient Coupling line.		

Table 3

Guidance and manufacturer's declaration - electromagnetic Immunity								
Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment)	Test Frequency (MHz)	Band (MHz)	Service	Modulation	Maximum Power(W)	Distance (m)	IEC 60601-1-2 Test level (V/m)	Compliance level (V/m)
	385	380 – 390	TETRA 400	Pulse modulation 18 Hz	1,8	0.3	27	27
	450	430 – 470	GMRS 460, FRS 460	FM $\pm$ 5 kHz deviation 1 kHz sine	2	0.3	28	28
	710	704 – 787	LTE Band 13, 17	Pulse modulation 217 Hz	0,2	0.3	9	9
	745							
	780							
	810	800 – 960	GSM 800 /900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz	2	0.3	28	28
	870							
	930							
	1720	1 700 – 1 990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation 217 Hz	2	0.3	28	28
	1845							
	1970							
	2450	2 400 – 2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz	2	0.3	28	28
	5240	5 100 – 5 800	WLAN 802.11 a/n	Pulse modulation 217 Hz	0,2	0.3	9	9
	5500							
	5785							

Table 4

Guidance and manufacturer's declaration - electromagnetic Immunity		
Test frequency	Modulation	IMMUNITY TEST LEVEL (A/m)
30 kHz	CW	8
134,2 kHz	Pulse modulation ^a 2,1 kHz	65 ^b
13,56 MHz	Pulse modulation ^a 50 kHz	7,5 ^b
a)The carrier shall be modulated using a 50% duty cycle square wave signal. b)r.m.s., before modulation is applied.		

CE Marking



The product bears the CE marking, indicating that its conformity with the provisions of Regulation (EU) 2017/745 of the European Parliament and of the Council on medical devices and fulfils the general safety and performance requirements in Annex I of this regulation.

Revision History

This manual has a revision number. This version number will be changed whenever the manual is updated due to changes in software or technical specifications. Contents of this manual are subject to change without prior notice. You can also contact Shenzhen Yimi Life Technology Co.,Ltd or our distributor to obtain the latest version of the user manual.

- Revision number: A0
 - Software revision: Refer to the software of the product.
 - Release time: 2026/03/31
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