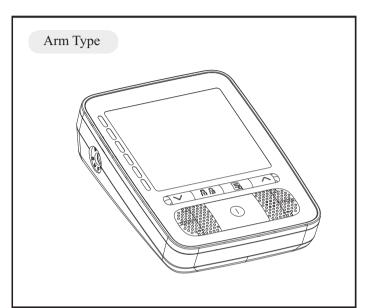


Arm-type Fully Automatic Digital Blood Pressure Monitor Model BM 92



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Document No.:XXXXXXXXX Version: Z Date of Issue: XXXXXX

Contact Information

The lay operator or lay responsible or ganization should contact the manufacturer or the representative of manufacturer. -for assistance, if needed, in setting up, using or maintaining the product, or -to report unexpected operation or events. Manufactured by JOYTECH Healthcare Co., Ltd. No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang, China Email: info@sejoy.com Telephone: +86-571-81957767 Fax: +86-571-81957750

Safety Notice

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Thank you for purchasing the BM 92 Blood Pressure Monitor. The unit has been constructed using reliable circuitry and durable materials. Used properly, this unit will provide years of satisfactory use.

Indications for use: The Arm-type Fully Automatic Digital Blood Pressure monitors are intended to measure blood pressure (systolic and diastolic) and pulse rate of adults and adolescents over 12 years of age.

All functions can be used safely and values can be read out in one LCD DISPLAY. Measurement position is on adult upper arm only.

The PATIENT is an intended OPERATOR.

Blood pressure measurement determined with this device are equivalent to those obtained by a trained observer using the cuff/ stethoscope auscultation method, within the limits prescribed by the Recognized Consensus Standard (IEC 80601-2-30) for electronic sphygmomanometers.

Precautions to Ensure Safe, Reliable Operation

- 1. Do not drop the unit. Protect it from sudden jars or shocks.
- 2. Do not insert foreign objects into any openings.
- 3. Do not attempt to disassemble the unit.
- 4. Do not crush the pressure cuff.
- 5. If the unit has been stored at temperatures below 0 °C, leave it in a warm place for about 15 minutes before using it. Otherwise, the cuff may not inflate properly.
- 6. If the unit has been stored at temperatures above 40 °C, leave it in a cool place for about 15 minutes before using it. Otherwise, the cuff may not inflate properly.
- 7. Do not store the unit in direct sunlight, high humidity or dust.
- 8.To avoid any possibility of accidental strangulation, keep this unit away from children and do not drape tubing around your neck.
- 9.Ensure that children do not use the instrument unsupervised; some parts are small enough to be swallowed.
- 10.Some may get a skin irritation from the cuff taking frequent readings over the course of the day, but this irritation typically goes away on its own after the monitor is removed.

Safety Notice

Important Instructions Before Use

- 1. Do not confuse self-monitoring with self-diagnosis. Blood pressure measurements should only be interpreted by a health professional who is familiar with your medical history. 2. Contact your physician if test results regularly indicate abnormal readings
- 3. If you are taking medication, consult with your physician to determine the most appropriate time to measure your blood pressure. NEVER change a prescribed medication without first consulting with your physician.
- 4. Individuals with serious circulation problems may experience discomfort. Consult your physician prior to use.
- 5. For persons with irregular or unstable circulation resulting from diabetes, liver disease, arteriosclerosis or other medical conditions, there may be variations in blood pressure values measured at the wrist versus at the upper arm. Monitoring the trends in your blood pressure taken at either the arm or the wrist is nevertheless useful and important.
- 6. People suffering from vascular constriction, liver disorders or diabetes, people with cardiac pacemakers or a weak pulse, and women who are pregnant should consult their physician before measuring their blood pressure themselves. Different values may be obtained due to their condition.
- 7. People suffering from arrhythmias such as atrial or ventricular premature beats or atrial fibrillation only use this blood pressure monitor in consultation with your doctor. In certain cases oscillometric measurement method can produce incorrect readings
- 8. Too frequent measurements can cause injury to the patient due to blood flow interference. 9. The cuff should not be applied over a wound as this can cause further injury.
- 10.DO NOT attach the cuff to a limb being used for IV infusions or any other intravascular access, therapy or an arterio-venous (A-V) shunt. The cuff inflation can temporarily block blood flow, potentially causing harm to the patient.
- 11. The cuff should not be placed on the arm on the side of a mastectomy. In the case of a double mastectomy use the side of the least dominant arm.
- 12.Pressurization of the cuff can temporarily cause loss of function of simultaneously used monitoring equipment on the same limb.
- 13.A compressed or kinked connection hose may cause continuous cuff pressure resulting in blood flow interference and potentially harmful injury to the patient. 14. Check that operation of the unit does not result in prolonged impairment of the circulation
- of the patient.
- 15. Product is designed for its intended use only. Do not misuse in any way.
- 16. Product is not intended for infants or individuals who cannot express their intentions. 17. Prolonged over-inflation of the bladder may cause ecchymoma of your arm.
- 18. Do not disassemble the unit or arm cuff. Do not attempt to repair
- 19. Use only the approved arm cuff for this unit. Use of other arm cuffs may result in incorrect measurement results.
- 20. The system might produce incorrect readings if stored or used outside the manufacturer's specified temperature and humidity ranges. Make sure to store the blood pressure monitor, children, pets and pests are outside of accessible range.
- 21. Do not use the device near strong electrical or electromagnetic fields generated by cell phones or other devices, they may cause incorrect readings and interference or become interference source to the device.
- 22. Do not mix new and old batteries simultaneously.

Safety Notice

Federla Commulcation Commission (FCC) Interference Statement

1. This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

2. This device is verified to comply with part 15 of the FCC Rules for use with cable television service

3. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation. Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 4. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

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

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

5. This equipment complies with radio frequency exposure limits set forth by the FCC for an uncontrolled environment

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

7.Essential performance:

Electrosurgery interference recovery	Refer 202.6.2.101	IEC 80601-2-30
Limits of the error of the manometer	Refer 202.12.1.102	IEC 80601-2-30
Reproducibility of the BLOOD PRESSURE DETERMINATION	Refer 201.12.1.107	IEC 80601-2-30

Safety Notice

3

23. Replace batteries when Low Battery Indicator " 📭 " appears on screen. Replace both batteries at the same time

- 24. Do not mix battery types. Long-life alkaline batteries are recommended 25. Remove batteries from device when not in operation for more than 3 months
- 26. Dispose batteries properly; observe local laws and regulations.
- 27. Only use a recommended class II AC Medical approved adaptor which comply with 2MOPP, and pass
- IEC 60601-1, IEC 60601-1-2(or FCC) standard . An unauthorized adapter may cause fire and electric shock.
- Advising operator that Instruction manual/ Booklet must be consulted.
 Do not use the device during transport vehicles for influencing measurement ac ambulance or helicopter. curacy such as patient transport in an
- 30. Contains small parts that may cause a chocking hazard if swallowed by infants.

31. Please align the polarities of each battery with the +ve and -ve signs imprinted on the battery housing when you replace the batteries 32. 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 33.Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer of the other and the second se

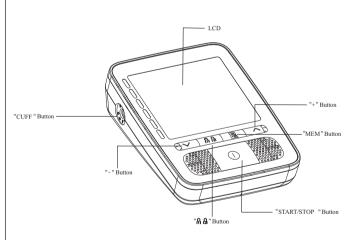
34.the blood pressure monitors equipped with bluetooth(BT) module is only transmit historical blood pressure (BP) from the subject Solution of the service of the product is about 5 years, the service life of the cuff is about 2 years, and the battery is about 3 months.

WARN	ING SIGNS AND SYMBOLS USED		
Ť	Keep Dry		
淤	Keep off Sunlight		
†	Type BF Equipment		
	Instructions For Use MUST be Consulted		
X	Discard the used product to the recycling collection point according to local regulations		
8 Bluetooth	The Bluetooth® Smart word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by JOYTECH Healthcare Co.,Ltd.		
IP21	IP 21 indicate dust proof and waterproof grade. Number 2 indicate that Protected against solid foreign objects of 12.5 mm and greater; Number 1 indicate that Protection against vertically falling water drops .		
MR	Magnetic Resonance unsafe		

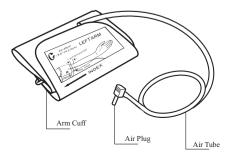
Unit Illustration

Monitor Unit

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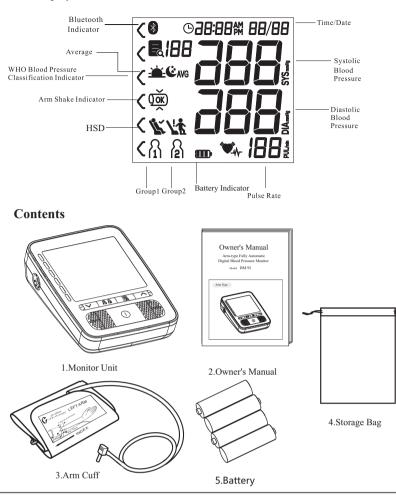
Arm Cuff Medium size cuff (fits arm circumference: 22.0 cm -36.0 cm).



If air is leaking from the arm cuff, replace the arm cuff with a new one. It is generally recomm ended to have the cuff replaced timely to ensure correct functioning and accuracy. Please consult your local authorized Sejoy distributor or dealer.

Unit Illustration

Display



Quick Start

1. Before first use, please carefully check the packaging is complete, if not complete please contact the seller for replacement. Every time before use, please check the equipment for obvious damage, if there is equipment has been damaged, please use caution. In turn open the color box, asylum package (or receive bag), remove the blood pressure monitor, check whether the parts is complete, and install the batteries (as shown in figure A) battery installed, normal blood pressure monitor for power self-checking, if the battery power is insufficient, the screen shows "LO" error code, if the battery is normal, the device automatically after about 3 seconds time date set into the interface. After the setting, can enter the blood pressure measurement mode. (See Figure A)

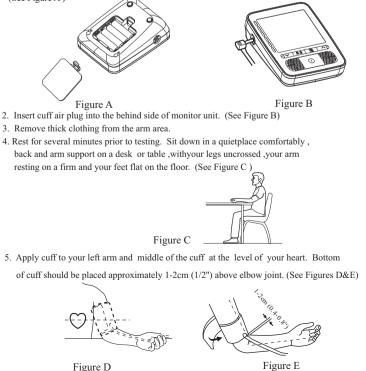


Figure D 6. Press " START/STOP " Button to start testing.

Important Testing Guidelines

- 1. Avoid eating, exercising, and bathing for 30 minutes prior to testing.
- 2. Sit in a calm environment for at least 5 minutes prior to testing.
- Do not stand while testing. Sit in a relaxed position while keeping your arm level with your heart.

8

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- 4. Avoid speaking or moving body parts while testing.
- While testing, avoid strong electromagnetic interference such as microwave ovens and cell phones.
- 6. Wait 3 minutes or longer before re-testing.

7

- 7. Try to measure your blood pressure at the same time each day for consistency.
- Test comparisons should only be made when monitor is used on the same arm, in the same position, and at the same time of day.
- 9. This blood pressure monitor is not recommended for people with severe arrhythmia.
- 10. Do not use this blood pressure monitor if the device is damaged.

Any blood pressure recording can be affected by the following factors

- 1. The position of the subject, his or her physiologic condition;
- 2. The performance and accuracy of the device;
- Cuff size: too small cuff (bladder) will produce a higher blood pressure value than usual, too big cuff (bladder) will produce a lower blood pressure value;
- 4. Measuring position does not keep level with your heart;
- 5. Speaking or moving body parts while testing;
- 6. Not relaxing for about 5 minutes before taking the measurement.

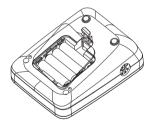
Unit Operation

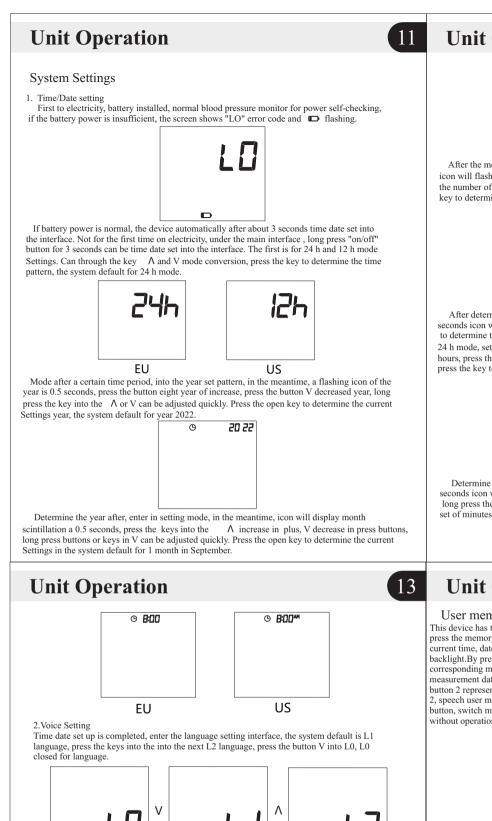
Battery Installation

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Slide battery cover off as indicated by arrow.

Install 4 new AAA alkaline batteries according to polarity. Close battery cover.





3. Volume Setting

After the completion of the language Settings, enter the sound Settings interface, the system default for V1 volume, press the button enter into the next volume L2, press the button V into V0, V0 for voice closed, with a total of four standard and increasing the volume of successive sound.

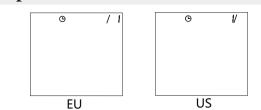


4. Saved Settings

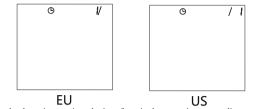
While in any setting mode, press " START/STOP " button to turn the unit off. All information will be saved.

Note: If unit is left on and not in use for 1 minutes, it will automatically save all information and shut off.

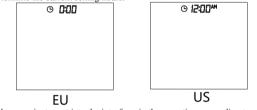
Unit Operation



After the month of determining, into the day set patterns, in the meantime, display, 0.5 seconds icon will flash once, press the keys into the Λ plus the number of days, press the button V reduce the number of days, long press key into or V can quickly adjust the number of days. Press the open key to determine the date of the current setting, the system default date for no. 1.



After determine the date, time set into the interface, in the meantime, according to time of 0.5 seconds icon will flash smelting time, first set the hours, according to the first step in setting model to determine the time, if the first set is 12 h mode, the default time is 12: 00 am, if the first step is 24 h mode, set the default time for 0:00, more than two kinds of mode, press the A button in the add hours, press the button V reduced hours, long press the key to determine the current setting hours.



Determine the hours, minutes set into the interface, in the meantime, according to minutes 0.5 seconds icon will flash once, press the button add minutes, press the button V reduced minutes, long press the key into the or V can quickly adjust minutes, press the key to determine the current set of minutes.

Unit Operation

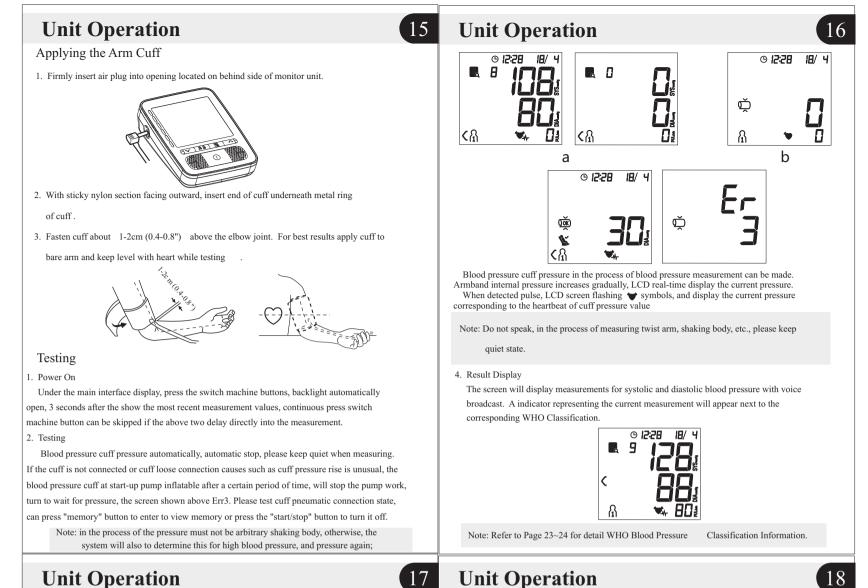
User memory group Settings

This device has two memory group, each group has 120 memory value respectively. In sleep mode, press the memory button, the device into the main screen display, 2 seconds, the screen shows the current time, date and user memory block. At the same time open the blood pressure monitor screen backlight.By pressing the buttons on the blood pressure cuff body 1 and 2 keys to select the corresponding memory block, press the button 1 on behalf of the current group 1 sphygmomanometer measurement data is stored in the user memory, memory speech group 1 at thesame time; Press the button 2 represent the current blood pressure measurement data is stored in theuser memory in group 2, speech user memory group 2 at the same time. Memory group selection iscompleted, presses the button, switch machine, the measurement of blood pressure. When blood pressure within 30 seconds without operation, backlit closed, no operation within 60 seconds, enter a dormant state.









Unit Operation

Irregular Heartbeat Indicator

If the monitor detects an irregular heart rhythm two or more times during the measuring process, the Irregular Heartbeat Symbol " 🖤 "appears on screen along with measurement results. Irregular heartbeat rhythm is defined as rhythm that is either 25% slower or faster than the average rhythm detected while measuring systolic blood pressure and diastolic blood pressure. Consult your physician if the Irregular Heartbeat Symbol

" 🐨 " frequently appears with your test results.

Power Off

The "START/STOP " button can be pressed to turn off the unit in any mode. The unit can turn off the power itself about 1 minutes no operation in any mode

Safety Precaution: If pressure in arm cuff becomes too extreme while testing, press the "START/STOP" button to turn power off. The cuff pressure will rapidly dissipate once the unit is off.

HSD

HSD: A detection algorithm of human are strained, when measuring blood pressure, it can be through the human bodyMeasure blood flow rate to determine whether the body is in nervous condition, suitability for blood pressure measurement. If the body is in nervous condition, sphygmomanometer can remind and terminate the blood pressure measurement, the user should be measured again after at least 5 minutes. If the normal leisure of the human body, blood pressure will also remind and normal work and measured the blood pressure.

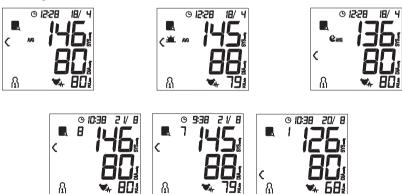
Cuff loose Indicator

At the beginning of the measurement, when the cuff is properly worn, the " $\mathbf{\Phi}$ " icon will be displayed, and when the cuff is loose, " $\mathbf{\Phi}$ " "The icon will be displayed. When this happens, please turn off the machine, adjust the cuff and measure again. If the " displayed, please check the cuff plugconnect with device correctly and measure again. If it still cannot be resolved, please contact the seller or manufacturer.

Memory view and average view

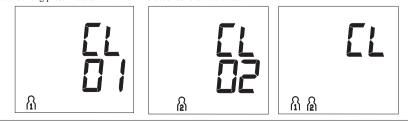
In the main interface LCD screen all show self-checking, memory according to [memory] key value view, see the first is the average of the last seven days, and then the seven days before the measurement of mean and average in the afternoon in the morning, the last is the latest measurement data, and blood pressure by pressing enter key memory value view. According to the average switching, press V return on a liquid crystal display interface. On average, LCD shows average prompt "AVG", and display the corresponding average blood pressure classification information and classification identification on the morning of the afternoon

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If you want to see other memory within the group, please user memory group set up in front of the boot, specific operation as shown in the "system Settings" in " User memory group Settings ". Memory Deletion

In the condition of main interface, press the [memory] key, enter the average interface. Through user button to select the user, long press A button and V 15 seconds for user delete memory value. Press A button to enter the average interface in the morning, in the morning the average interface, can be long press A button Λ and V 15 seconds to delete all data.



Unit Operation

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Note: Memory cannot be recovered once it has been deleted.

If you want to delete the other set of memories, please user memory group set up in front of the boot, specific operation as shown in the "system Settings" in " User memory group Settings ";

Power Off

In any state, the boot can be fixed by press the "start/stop" button for 2 seconds to turn it off. If the device idle for 30 seconds, backlit closed, 60 seconds after the device has reached the "sleep" mode. Press any button except/key can be reactivated backlit. In the condition of error and low electricity, according to the key, open/equipment into "sleep" state immediately.

Low Battery Indicator

When measuring screen does not appear when the battery symbol, said the battery voltage is normal, sphygmomanometer can work normally.

When the screen appear the battery when measuring marks, said the battery voltage is low, please replace the battery, prevent blood pressure monitor can not work normally.

Screen appears when measuring the **C** ashing, and LCD screen will appear low voltage symbol "LO", sphygmomanometer automatic shutdown after about 5 s please immediately replace the battery, ensure the sphygmomanometer can normal use.



Static Pressure Measurement

In the press key insert battery into the test mode at the same time, according to an inferior version available algorithm and software version number, alternating press Λ and V may continue to see test.



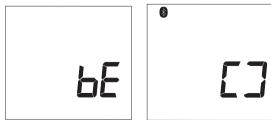
21

Note: Only Service personnel permitted to access to this mode, the mode unavailable in normal use.

Unit Operation



3. After the pairing is complete, the device interface switches from boo interface, indicating that the pairing is successful.



-Transfer your readings

1. As soon as your measurement is complete, open the app on your smart phone to transfer

your reedings

Notr: On the paired smartphone, Bluetooth must be enabled.

2. You can view your blood pressure readings on the app.

Unit Operation

Bluetooth requirements

- The monitor requires a device with:
- . Bluetooth 4.0 or later
- . Android 5.0 or later
- . IOS 9.0 or later And works with:
- . iphone , iPod, iPad

. Android Phones and Tablets

Bluetooth connection

-Using for the first time

- 1. Download the free "JoyHealth" App: On your mobile phone or table
- go to www.sejoy.com.
- 2. Open the App on your phone or tablet. If requested, you should enable Bluetooth on your device. You can enable Bluetooth under the Settings menu on your smart phone or table.
- Create a new user login, or login with your existing user name and password.
 Selection device "Blood pressure monitor".

-Pairing your monitor with a Smart Device

1. Long press the " 🔒 🍙 button on your monitor until the word "bE" flashes on your monitor .



Wireless communication

Modulation · GESK

Antenna gain:0.5dBi

Frequency range : 2.4 Ghz (2400-2483.5 MHz)

2. Open the APP and click "pair device" button, a popup window will appear. Click "Search device" button to display all sphygmomanometer devices (The display information includes the device model and MAC address), then you can find the sphygmomanometer through the "device Name", click the pictureA film or text can be used to pair the device.

Unit Operation

Frou	h	ad	hoc	11m	α
	1)	es	11030)	У.

rioubleshooting		
Abnormal phenomenon	Cause analysis	Processing method
	The armband is tied too tight or too loose, Or the arm strap is tied incorrectly;	Roll the armband correctly
Abnormal	Move the arm during measurement or Electronic sphygmomanometer	Stay quiet, keep your arm steady, and do not move the monitor
sphygmomanometer	Speaking, nervous or emotional during measurement	Instead of talking, take deep breaths to calm your mood and relax your body
	Incorrect measurement posture	Adjust posture, see "Blood pressure gauge Wearing"
	There is interference in charging process or improper operation in measuring process	See operation Instructions.

The following table shows the error signs that may occur during measurement, possible causes and handling methods. Please measure again using the correct method

Error display	The cause of the problem	The solution
Er1	Can't detect high and low pressure	Please fasten the cuff before measuring
Er2	Cuff too loose or loose	Please fasten the cuff before measuring
Er3	The pressure exceeds 15mmHg for 3 minutes	Check whether the cuff is knotted or the vent valve is blocked. If the problem persists, contact the manufacturer
Er4	Improper compression caused by arm or body movement	Hold the arm or body still and measure again
Er5	The pressure exceeds 300mmHg	Please fasten the cuff before measuring
LO	Battery dead	Replace the battery or connect the power adapter (if any).

Note: If you cannot solve the abnormal situation by yourself, you can consult the manufacturer or the manufacturer's designated unit by phone. It is forbidden to disassemble and repair without permission. If necessary, professional maintenance personnel can ask the manufacturer for the list of components and circuit schematic diagram.

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Blood Pressure Information

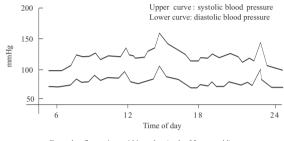
(23

Blood Pressure

Blood pressure is the force of blood pushing against the walls of arteries. It is typically measured in millimeters of mercury (mmHg.) Systolic blood pressure is the maximum force exerted against blood vessel walls each time the heart beats. Diastolic blood pressure is the force exerted on blood vessels when the heart is resting between beats.

An individual's blood pressure frequently changes throughout the course of a day. Excitement and tension can cause blood pressure to rise, while drinking alcohol and bathing can lower blood pressure. Certain hormones like adrenaline (which your body releases under stress) can cause blood vessels to constrict, leading to a rise in blood pressure.

If these measuring numbers become too high, it means the heart is working harder than it should.

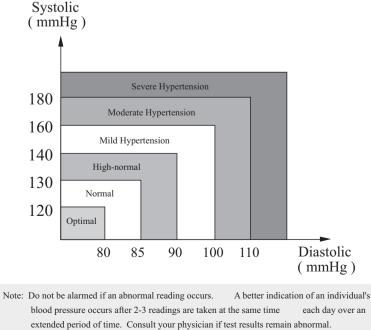


Example: fluctuation within a day (male, 35 years old)

Blood Pressure Information

Health Reminder

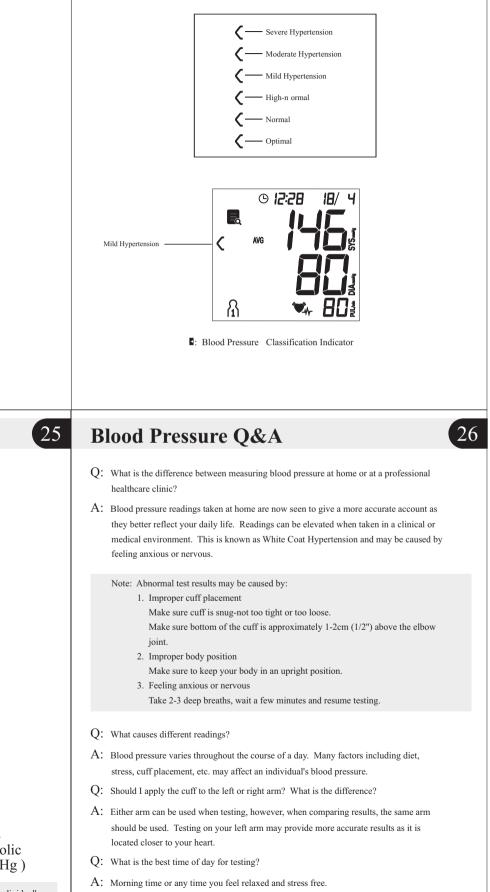
Hypertension is a dangerous disease that can affect the quality of life. It can lead to a lot of problems including heart failure, kidney failure, and cerebral hemorrhaging. By maintaining a healthy lifestyle and visiting your physician on a regular basis, hypertension and relative diseases are much easier to control when diagnosed in their early stages.



Blood Pressure Information

WHO Blood Pressure Classification Indicator

The BM 92 is equipped with a classification indicator based on established guidelines from the World Health Organization. The chart below (color coded on monitor unit) indicates test results.



Maintenance

1. Avoid dropping, slamming, or throwing the unit.



2. Avoid extreme temperatures. Do not expose unit directly under sunshine.



3. When cleaning the unit, use a soft fabric and lightly wipe with mild detergent.

Use a damp cloth to remove dirt and excess detergent. If the previous cleaning instructions

are not successful, repeat several times until the visible dirt is removed.



Specifications

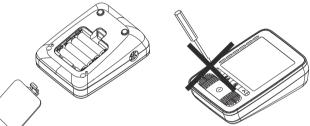
Product Description	Arm-type Fully Automatic Blood Pressure Monitor		
Model	BM 92		
Display	LCD Digital Display	Size:71mm x 76mm(2. 80″ x 2. 99″)	
Measurement Method	Oscillometric Method	1	
	Systolic Pressure	60mmHg~260mmHg	
	Diastolic Pressure	40mmHg~200mmHg	
Maria	Pressure	0mmHg~299mmHg	
Measurement Range	Pressure	±3mmHg	
	Pulse	30 ~ 180 Beats/Minute	
	Pulse	±5%	
Pressurization	Automatic Pressuriza	tion	
Memory	2x120 Memories in T	wo Groups with Date and Time	
Function	Irregular Heartbeat Detection WHO Classification Indicator Last 7 days average Average for the last 7 days Afternoon average for the last 7 days Low Battery Detection Automatic Power-Off Voice Backlighting Bluetooth HSD		
Power Source	4 AAA batteries		
Battery Life	Approximately 2 months at 3 tests per day		
Unit Weight	Approx.180g (6.35 oz.) (excluding battery)		
Unit Dimensions	Approx.125mm X 95mm X 44mm(4.92" x 3.74" x 1.73")		
Cuff Circumference	Medium cuff: Fits arm circumference 22-36 cm		
Operating Environment	Temperature	10 °C ~ 40 °C (50 °F~104 °F)	
operating Direnounfellt		15%~93% RH	

Maintenance

- 4. Cuff Cleaning and Disinfection:
- A) Spread the cuff (skin-contact surface) upwards onto a clean table. Use a damp clean cloth (water-based) to wipe the skin-contact surface with a force.
- B) Soak the cloth clean with drinking water and wring it dry. Repeat A) with the damp cloth (water-based) for 3 times.
- C) Apply 70%-80% alcohol to a new cloth (or 75% alcohol cotton-ball), use it to wipe the skin-contact surface with a force. Then soak the cloth with the alcohol again (or change a new 75% alcohol cotton-ball), repeat the disinfection procedure for 3 times.
- D) When the disinfection towards the skin-contactsurface is finished, wipe thenon-skin contact surface with a cloth (alcohol-based) or alcohol cotton-ball thoroughly for 3 times.
- E) Leave the cuff naturally dry, then it is ready for reuse. Notice: Do not soak in water or splash water on it.
- 5. Do not use petrol, thinners or similar solvents.



- 6. Remove batteries when not in operation for an extended period of time.
- 7. Do not disassemble product.



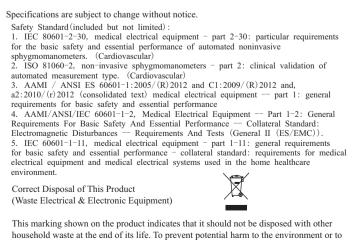
8. It is recommended the performance should be checked every 2 years.

- 9. Expected service life: Approximately three years at 10 tests per day.
- 10.No service and maintenance while it is in use and maintenance only be performed by service personnel. Service and maintenance require parts, repair, technical support will be provided.

Specifications

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Operating Environment	Pressure	800hPa~1060hPa	
Storage Environment	Temperature:	-25 ℃~55 ℃ (-13 °F~131 °F)	
Storage Environment	Humidity	≪93% RH	
Ingress Protection rating:	IP 21,Indoor Used Only		
Battery Shelf life:	60 months		
Battery Storage Temperature:	-25°C~55°C (-13°F~131°F)		



human health, please separate this product from other types of wastes and recycle it responsibly. When disposing this type of product, contact the retailer where product was purchased or contact your local government office for details regarding how this item can be disposed in an environmentally safe recycling center.

Business users should contact their supplier and check the terms and conditions of the purchasing agreement. This product should not be mixed with other commercial wastes for disposal. This product is free of hazardous materials.

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Warranty

The Blood Pressure Monitor is guaranteed for 2-year from the date of purchase. If the Blood Pressure Monitor does not function properly due to defective components or poor workmanship, we will repair or replace it freely. The warranty does not cover damages to your Blood Pressure Monitor due to improper handling. Please contact local retailer for details.

Electromagnetic Compatibility Information

The device satisfies the EMC requirements of the international standard IEC 60601-1-2. The requirements are satisfied under the conditions described in the table below. The device is an electrical medical product and is subject to special precautionary measures with regard to EMC which must be published in the instructions for use. Portable and mobile HF communications equipment can affect the device. Use of the unit in conjunction with non-approved accessories can affect the device negatively and alter the electromagnetic compatibility. The device should not be used directly adjacent to or between other electrical equipment. **Table 1**

Guidance and declaration of manufacturer-electromagnetic emissions

The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment -guidance
Radiated emission CISPR 11	Group 1, class B.	The device uses RF energy only for its internal function. Therefore, its emissions are very low and are not likely to cause any interference in nearby electronic equipment.
Conducted emission CISPR 11	Group 1, class B.	The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

Electromagnetic Compatibility Information

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Table 2 Guidance and declaration of manufacturer-electromagnetic immunity

The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment. IEC 60601 Compliance Electromagnetic environment

IMMUNITY test	IEC 60601 test level	Compliance level	Electromagnetic environment -guidance
Electrostatic discharge (ESD) IEC 61000-4-2	$\begin{array}{c} \pm 8 \text{ kV} \\ \text{contact} \\ \pm 2 \text{ kV}, \pm 4 \text{ kV}, \\ \pm 8 \text{ kV}, \\ \pm 15 \text{ kV air} \end{array}$	$\begin{array}{c} \pm 8 \text{ kV} \\ \text{contact} \\ \pm 2 \text{ kV}, \pm 4 \text{ kV}, \\ \pm 8 \text{ kV}, \\ \pm 15 \text{ kV air} \end{array}$	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrostatic transient/burst IEC 61000-4-4	± 2 kV, 100kHz, for AC power port	± 2 kV , 100kHz, for AC power port	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±0.5kV, ±1kV (differential mode)	±0.5kV, ±1kV (differential mode)	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interrupti- ons and voltage variations on p- ower supply in- put lines IEC 61000-4-11	0 % UT; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles Single phase: at 0° 0 % UT; 250/300 cycle	0 % UT; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, , 270° and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles Single phase: at 0° 0 % UT; 250/300 cycle	Mains power quality should be that of a typical commercial or hospital environment.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m; 50Hz or 60Hz	30 A/m; 50Hz or 60Hz	Power frequency magnetic fields should be at levels charactertic of a typical location in a typical comme- rcial or hospital environment.

Electromagnetic Compatibility Information

Table 2(continued)

			nvironment specified below. at it is used in such an environm-
IMMUNITY test	IEC 60601 test level	Compliance level	Electromagnetic environment -guidance
Radiated RF EM fields IEC 61000-4-3	10 V/m80MHz- 2.7Ghz 80%AM at 1kHz	10 V/m80MHz- 2.7Ghz 80%AM at 1kHz	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended seperation distance 80 MHz to 800 MHz 800 MHz to 2.7 Ghz where P is the maximum output power rating of the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, a should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol:
Conducted disturbances Induced by RF fields IEC 61000-4-6	3 V in 0.15 MHz- 80 MHz 6 V in ISM and/or amateur radio bands between 0.15 MHz and 80 MHz 80 % AM at 1kHz	3 V in 0.15 MHz- 80 MHz 6 V in ISM and/or amateur radio bands between 0.15 MHz and 80 MHz 80 % AM at 1kHz	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended seperation distance 80 MHz to 800 MHz 800 MHz to 2.7 Ghz where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, a should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol:

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Electromagnetic Compatibility Information

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Table 3

Guidance and declaration of manufacturer-electromagnetic immunity

Nowadays, many RF wireless equipments have being used in various healthcare locations where medical equipment and/or systems are used. When they are used in close proximity to medical equipment and/or systems, the medical equipment and/or systems' basic safety and essential performance may be affected. Arm-type Fully Automatic Digital Blood Pressure Monitorhas been tested with the immunity test level in the below table and meet the related requirements of IEC 60601-1-2:2014. The customer and/or user should help keep a minimum distance between RF wireless communications equipment and this medical equipment and/or systems are recommended below.

Test frequency (MHz)	Band (MHz)	Service	Modulation	Maximum power (W)	Distance (m)	Immunity test level (V/m)
385	380-390	TETRA 400	Pulse modulation 18Hz	1.8	0.3	27
450	430-470	GMRS 460 FRS 460	FM ± ° kHz deviation 1 kHz sine	2	0.3	28
710		L TE				
745	704-787	LTE Band	Pulse modulation	0.2	0.3	9
780	1	13, 17	217Hz			
810		GSM 800/900,				
870	800-960	TETRA 800, iDEN 820,	Pulse modulation	2	0.3	28
930	1	CDMA 850, LTE Band 5	18Hz			
1720		GSM 1800;				
1845	CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	GSM 1900; DECT;	Pulse modulation	2	0.3	28
1970		217Hz				
2450	2400-2570	Bluetooth,WLAN, 802.11 b/g/n,RFID 2450,LTE Band 7	Pulse modulation 217Hz	2	0.3	28
5240		WLAN	Pulse			
5500	5100-5800	802.11 a/n	modulation 217Hz	0.2	0.3	9
5785		6711				

Additional Notes

Important Instructions Before Use

1. 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.

2.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 Armtype Fully Automatic Digital Blood Pressure Monitor, including cables specified by the MANUFACTURER. Otherwise, degradation of the performance of this equipment could result.

3. The software identifier refer to the software verification and validation report , and the file code is **JYRJ201009001**.

4.verify manometer pressure accuracy:

In the power down state, press and hold the "START/STOP" button, and theninstall the batteries. Until the LCD screen is full, release the "START/STOP" button.

When the LCD screen displays the double zero, the bloodpressure meter is in static state. At this point, 500ml gas capacity, calibrated standard pressure gauge and manual pressure device

can be connected to the sphygmomanometer through the sleeve interface of the sphygmomanometer, and manual pressure can be applied to the effective display range of the sphygmomanometer, and then the difference between the reading of the sphygmomanometer and that of the standard pressure gauge can be compared. This mode can be used to verify manometer

pressure accuracy. 5 Contraindications:

Product is not intended for infants or individuals who cannot express their intentions. 6.Intended Use

The digital blood pressure monitor are reusable for clinical and home use and are non-invasive blood pressure measurement systems designed to measure the systolic and diastolic blood pressure and pulse rate of adolescents and adults individual by using a non-invasive technique, which is a well-known technique in the market called the "oscillometric method".

it can measure the systolic blood pressure, diastolic blood pressure and pulse rated on up-arm, and the device is reusable for clinical or home use.

7. The patient is the operator:

the PATIENT is an intended OPERATOR.

the PATIENT Do not carry out other maintenance operations except to replace the battery. 8.WARNING:

Do not modify this equipment without authorization of the manufacturer.

9. ESSENTIAL PERFORMANCE Maintenance advice:

Pressure calibration will be carried out when this product leaves the factory. Patients can use the method described in the section "Verify Manometer Pressure Accuracy" to verify the accuracy. If the accuracy deviation is large, please contact the manufacturer to recalibration. 10.Mechanical strength and resistance to heatThe resistance to heat will be retained by device

during the EXPECTED SERVICE LIFE of the ME EQUIPMENT.

Electromagnetic Compatibility Information

Table 4

Recommended separation distances between portable and mobile RF							
communications equipment and the device							
The device is intended for use in an electromagnetic environment in which							
radiated therefore disturbances are controlled. The customer or the user of the							
device can help prevent electromagnetic interference by maintaining a							
minimum distance between portable and mobile RF communications							
equipment (transmitters) and the device as recommended below, according to							
the maximum output power of the communications equipment.							
Rated maximum	Separation distance according to frequency of transmitter						
output power of	m						
transmitter	80 MHz to 800 MHz	800 MHz to 2.7 GHz					
W	$d = \left[\frac{3.5}{E_1}\right]\sqrt{P}$	$d = \left[\frac{7}{E_1}\right]\sqrt{P}$					
0.01	0.12	0.23					
0.1	0.28	0.72					
0.1	0.38	0.73					
1	1.2	2.3					
10	3.8	7.3					
100	12	23					

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Additional Notes

11.Do not place the blood pressure monitor and cuff at will. It will cause asphyxiation if the child swallows or twine around his neck.12.The cuff and the case of the blood pressure monitor have been tested for biocompatibility and

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do not contain allergenic or harmful materials.Please stop using it if allergy occurs during use. 13.Warning:

Non-professionals do not modify the equipment, otherwise it will make the equipment measurement is not accurate.

14.Warning:

Do not expose the equipment for a long time, otherwise it will reduce the performance of the equipment.

15.Warning:

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This device is not used for children and pets

16.Clean:

The equipment can be cleaned by lay operator according to the cleaning procedures in the instructions

17.Warning:

Do not use a damaged cuff for blood pressure measurement. 18.Warning:

When measuring with the cuff, if the tester feels seriously uncomfortable, press the button of the blood pressure monitor to deflate the cuff, or remove the cuff directly from the arm.

19. Warning:

If an unexpected reading occurs, the operator can take several more measurements and consult a doctor.

20.Warning:

This equipment is used outside the specified environment, may damage the equipment, and may be inaccurate measurement.

21.ME equipment not intended for use in conjunction with flammable agents "ME equipment not intended for use in oxygen rich environment"

22.Materials, accessories and detachable parts other than those specified in the manual may pose unacceptable risks.

23.Do not modify. Do not connect to other devices.

Correct Disposal of This Product

(Waste Electrical & Electronic Equipment)

This marking shown on the product indicates that it should not be disposed with other household waste at the end of its life. To prevent potential harm to the environment or to human health, please separate this product from other types of wastes and recycle it responsibly. When disposing this type of product, contact the retailer where product was purchased or contact your local government office for details regarding how this item can be disposed in an environmentally safe recycling center.

Business users should contact their supplier and check the terms and conditions of the purchasing agreement. This product should not be mixed with other commercial wastes for disposal. This product is free of hazardous materials.