Owner's Manual

Arm-type Fully Automatic Digital Blood Pressure Monitor Model DBP-1305b



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Version: Z

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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.

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Safety Notice

Thank you for purchasing the DBP-1305b Blood Pressure Monitor. The unit has been constructed using reliable circuitry and durable materials. Used properly, this unit will provide years of satisfactory use.

Measure blood pressure(systolic and diastolic) and pulse rate of adults and adolecents age 12 through 21 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 81060-2-30) 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.

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Safety Notice

Important Instructions Before Use

- 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.
- 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.

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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.

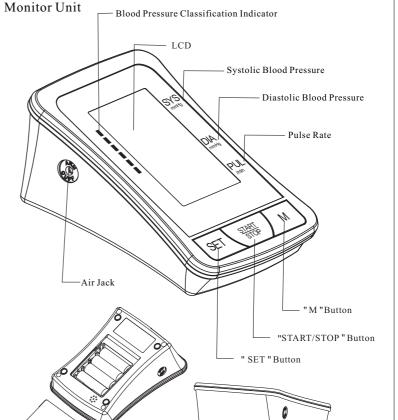
Safety Notice

- 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 AC adaptor double-insulated complying with EN 60601-1 and EN 60601-1-2. An unauthorized adapter may cause fire and electric shock.
- 28. Advising operator that Instruction manual/Booklet must be consulted.
- 29. Do not use the device during transport vehicles for influencing measurement accuracy, such as patient transport in an ambulance or helicopter.
- 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. This ME equipment or ME Systems should be only used in shielded location.
- 33. 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.
- 34.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 unit, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

| WARNING SIGNS AND SYMBOLS USED | | | |
|--------------------------------|--|--|--|
| | Keep Dry | | |
| ≹ | Keep off Sunlight | | |
| † | Type BF Equipment | | |
| | Instructions For Use MUST be Consulted | | |
| Z | Discard the used product to the recycling collection point according to local regulations | | |
| 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. | | |

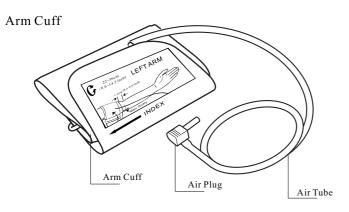
Unit Illustration

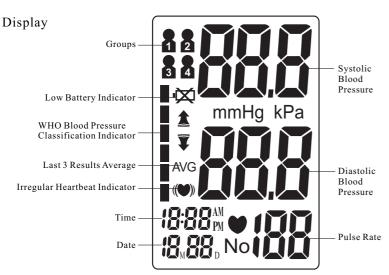
-Battery cover

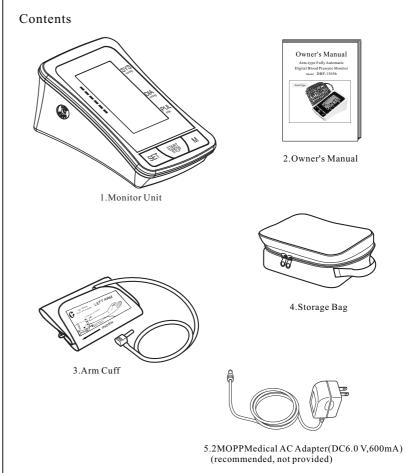


AC Adapter Jack









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.
- 3. Do not stand while testing. Sit in a relaxed position while keeping your arm level with your heart.
- 4. Avoid speaking or moving body parts while testing.
- 5. While testing, avoid strong electromagnetic interference such as microwave ovens and cell phones.
- 6. Wait 3 minutes or longer before re-testing.
- 7. Try to measure your blood pressure at the same time each day for consistency.
- 8. 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.
- $9. \ \, \text{This blood pressure monitor is not recommended for people with severe arrhythmia}.$
- 10. Do not use this blood pressure monitor if the device is damaged.

Quick Start

1. Install batteries. (See Figure A)

2. Insert cuff air plug into the left side of monitor unit. (See Figure B)

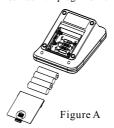


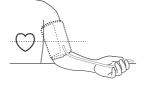
Figure B

- 3. Remove thick clothing from the arm area.
- 4. Rest for several minutes prior to testing. Sit down in a quietplace comfortably, back and arm support on a desk or table, withyour legs uncrossed, your arm resting on a firm and your feet flat on the floor. (See Figure C)



Figure C

5. Apply cuff to your left arm and middle of the cuff at the level of your heart. Bottom of cuff should be placed approximately 1-2cm (1/2") above elbow joint. (See Figures D&E)



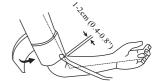


Figure D

Figure E

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

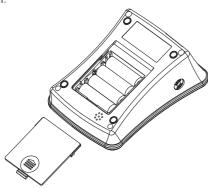
10

Battery Installation

Slide battery cover off as indicated by arrow.

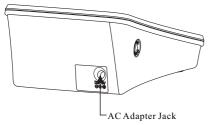
Install 4 new AA alkaline batteries according to polarity.

Close battery cover.



AC Adapter jack is on the right side of the monitor. Medical AC adapter (DC 6.0 V, 600 mA) can be used with the device (recommended, not provided). The adapter connect pin should be positive inside and negative outside with a 2.1 mm coaxial joint.

Do not use another type of AC adapter as it may harm the unit.



Note:Power supply is specified as part of ME EQUIPMENT.

System Settings

With power off, press "SET" button to activate System Settings. The Memory Group icon flashes

1. Select Memory Group

While in the System Setting mode, you may accumulate test results into 2 different groups. This allows multiple users to save individual test results (up to 60 memories per group.) Press "M" button to choose a group setting. Test results will automatically store in each selected group.





2. Time/Date Setting

Press "SET" button again to set the Time/Date mode. Set the month first by adjusting the "M" button. Press "SET" button again to confirm current month. Continue setting the day, hour and minute in the same way. Every time the "SET" button is pressed, it will lock in your selection and continue in succession (month, day, hour, minute.)

Unit Operation

peration

3. Voice Setting

Press "SET" button to enter voice setting mode. Set the voice format ON or OFF by pressing the "M" button.





4.volum setting

Press "SET" button to enter volume setting mode. Set the voice volume by adjusting the "M" button. There are six volume levels



5. 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 3 minutes, it will automatically save all information and shut off.

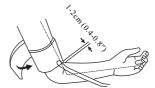
Unit Operation

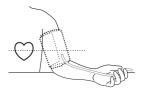
Applying the Arm Cuff

1. Firmly insert air plug into opening located on left side of monitor unit.



- 2. With sticky nylon section facing outward, insert end of cuff underneath metal ring of cuff.
- 3. Fasten cuff about 1-2cm (0.4-0.8") above the elbow joint. For best results apply cuff to bare arm and keep level with heart while testing.





Note: Do not insert air plug into opening located on right side of monitor unit.

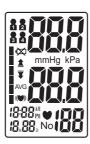
This opening is designed for an optional power supply only.

1/

Testing

1. Power On

Press "START/STOP" button to turn the unit on. The LCD screen will appear for one second as unit performs a quick diagnosis. A voice tone will indicate when unit is ready for testing

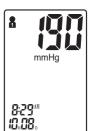


Note: Unit will not function if residual air from previous testing is present in cuff.

The LCD will flash " 🜹 " until pressure is stabilized.

2. Pressurization

The unit will automatically inflate to the proper pressure value and stop inflating. During this time, please keep quiet.



Note: Pressurization will gradually subside and ultimately stop when cuff is not properly applied to the arm. If this occurs, press "START/STOP" button to turn the unit off.

Unit Operation

3 Testing

After cuff inflation, air will slowly subside as indicated by the corresponding cuff pressure value. A flashing " • " will appear simultaneously on screen signaling heart beat detection.



Note: Keep relaxed during testing. Avoid speaking or moving body parts.

4. Result Display

The screen will display measurements for systolicand diastolic blood pressure with voice broadcast. A indicator representing the current measurement will appear next to the corresponding WHO Classification.



Note: Refer to Page 23~24 for detail WHO Blood Pressure Classification Information.

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.

5. Deleting/Storing Test Results

User may delete their current test result due to unfavorable testing conditions or for any other reason. To delete the last test result, press the "SET" button after result is displayed. If result is not deleted, it will automatically store by date within the previously configured Memory Group.

Note: Be sure the appropriate Memory Group selection is made prior to testing.

If the number of tests surpasses the allotted 60 memories per group, the most recent tests will appear first, thus eliminating the oldest readings.

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 3 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.

Memory Check

With power off, you may check past test results by using the "M" button. The most recent test result and oldest test result in memory can be viewed by pressing and holding the "M" button upon activating test results you can press the "M" button to scroll through all test results stored in memory.



Note: Previous test results will only be displayed from the most recently used memory group. To check previous test results in other memory groups, you must first select the desired group and then turn monitor off.

(See "Select Memory Group" on Page 10.)

Memory Deletion

Memory for a selected group may be deleted while in Memory Check mode. Press and hold the "SET" button for approximately 3 seconds to delete all memory records from the selected group with voice broadcast "Memory Clear" and then transfer into testing mode. Press the "START/STOP" button to turn the unit off.



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

Unit Operation

Last 3 Tests Average

With power off, press the "M" button to activate screen display. After the unit performs a self diagnosis, the screen will display the average test results from the last 3 readings of the last group used with voice broadcast. The "AVG" symbol will appear along with the corresponding WHO Blood Pressure Indicator. The Memory Check mode can be accessed by pressing the "M" button. To check the average results from other groups, select the desired group first prior to activating the "M" button in the off position. (See "Select Memory Group" on Page 10.)



Unit Operation

Low Battery Indicator

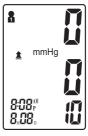
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The unit will broadcast"Low Battery" when battery life is depleting and unable to inflate cuff for testing. The " Tappears simultaneously for approximately 5 seconds prior to shutting off. Replace batteries at this time. No memory loss will occur throughout this process.



Static Pressure Measurement

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. Software version is displayed at the heart rate.



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

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

Wireless communication

Frequency range: 2.4 Ghz (2400-2483.5 MHz)

Modulation : GFSK
Antenna gain:0.5dBi

Bluetooth connection

Using for the first time

- 1. Download the free "JOYTECH healthcare" 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.
- 3. Create a new user login, or login with your existing user name and password.
- 4. Selection device "Blood pressure monitor".

Pairing your monitor with a Smart Device

The date and time on your monitor will automatically be set when you pair it with your smart device

- 1. Make sure the Bluetooth in your smart device is turned on.
- 2. Open the app on your smart device and follow the set-up and pairing instructions.
- Confirm the monitor is connected successfully.
 If the monitor is connected successfully to the smart device, "bLE on" will appear on the monitor display.



Unit Operation

Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|--|
| | Cuff is too tight or not properly positioned on the arm | Firmly reposition cuff approximately1-2cm (1/2") above the elbow joint (See Page 12) |
| Blood pressure results are not within typical range | Inaccurate test results due to body movement or monitor movement | Sit in a relaxed position with arm placed near heart. Avoid speaking or moving body parts while testing. Make sure the monitor unit is placed in a stationary position throughout the testing period. (See Page 7) |
| | Cuff fails to inflate properly | Make sure hose is properly fastened to cuff and monitor unit |
| " Err "displayed | Improper operation | Read user manual carefully and re-test properly. |
| | Pressurization is over cuff rated pressure 300mmHg | Read user manual carefully and re-test properly. |
| Connection failure./ | The blood pressure monitor might not be porperly placed within the smart device's tranmission range and is too far from the smart device. | If there are no causes of data transmission interference found near the blood pressure monitor, move the blood pressure monitor within 16ft.(5m) of the smart device and try again |
| transmitted | The blood pressure did not pair successfully to the smart device | Try to pair the devices once again. |
| The application on the sma device is not ready. | | Check the application then try sending the data again. |

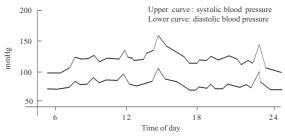
Blood Pressure Information

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.



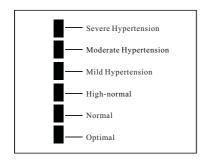
Example: fluctuation within a day (male, 35 years old)

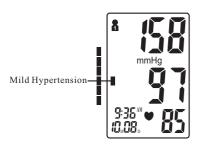
Blood Pressure Information

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WHO Blood Pressure Classification Indicator

The DBP-1305b 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.



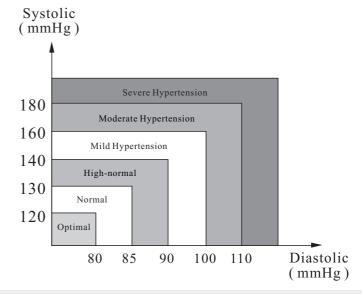


: Blood Pressure Classification Indicator

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.



Note: Do not be alarmed if an abnormal reading occurs. A better indication of an individual's blood pressure occurs after 2-3 readings are taken at the same time each day over an extended period of time. Consult your physican if test results remain abnormal.

Blood Pressure Q&A

Q: What is the difference between measuring blood pressure at home or at a professional healthcare clinic?

A: Blood pressure readings taken at home are now seen to give a more accurate account as they better reflect your daily life. Readings can be elevated when taken in a clinical or medical environment. This is known as White Coat Hypertension and may be caused by feeling anxious or nervous.

Note: Abnormal test results may be caused by:

Improper cuff placement
 Make sure cuff is snug-not too tight or too loose.
 Make sure bottom of the cuff is approximately 1-2cm (1/2") above the elbow joint.

Improper body position
 Make sure to keep your body in an upright position.

3. Feeling anxious or nervous

Take 2-3 deep breaths, wait a few minutes and resume testing

Q: What causes different readings?

A: Blood pressure varies throughout the course of a day. Many factors including diet, stress, cuff placement, etc. may affect an individual's blood pressure.

Q: Should I apply the cuff to the left or right arm? What is the difference?

A: Either arm can be used when testing, however, when comparing results, the same arm should be used. Testing on your left arm may provide more accurate results as it is located closer to your heart.

Q: What is the best time of day for testing?

A: Morning time or any time you feel relaxed and stress free.

Maintenance

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



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



When cleaning the unit, use a soft fabric and lightly wipe with mild detergent.
 Use a damp cloth to remove dirt and excess detergent.



- 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
- 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
- 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.

Maintenance

details

| Storage Environment | Temperature: | -23°C~70°C (-13°F~158°F) | |
|---------------------------------|--|--------------------------|--|
| Storage Environment | Humidity | ≤93% RH | |
| Classification: | Internal Powered Equipment, Type BF 📩 . Cuff is the Applied Part | | |
| Ingress Protection rating: | IP 20,Indoor Used Only | | |
| Battery Shelf life: | 60 months | | |
| Battery Storage Temperature: | -25℃~55℃ (-13F~131F) | | |

Specifications are subject to change without notice.

- $1.\,IEC\,80601-2-30, medical\,electrical\,equipment\,-\,part\,2-30: particular\,requirements\,for\,the\,basic\,safety$ and essential performance of automated noninvasive sphygmomanometers. (Cardiovascular) 2. ANSI/AAMI ISO 81060-2, non-invasive sphygmomanometers - part 2: clinical validation of automated
- measurement type. (Cardiovascular)
- 3. AAMI / ANSI ES60601-1:2005/(R)2012 and C1:2009/(R)2012 and, a2:2010/(r)2012 (consolidated text) medical electrical equipment -- part 1: general requirements for basic safety and essential performance
- 4. AAMI/ANSI/IEC 60601-1-2, Medical Electrical Equipment -- Part 1-2: General Requirements For Basic Safety And Essential Performance -- Collateral Standard: Electromagnetic Disturbances -- Requirements And Tests (General II (ES/EMC)).
- 5. IEC 60601-1-11, medical electrical equipment part 1-11: general requirements for basic safety and essential performance - collateral standard: requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment

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.

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

| Product Description | Arm-type Fully Auto | omatic Blood Pressure Monitor | |
|-----------------------|---|-------------------------------|--|
| Model | DBP-1305b | | |
| Display | LCD Digital Display Size: 84.1mm×55.1mm (3.31" x 2.17") | | |
| Measurement Method | Oscillometric Method | | |
| | Systolic Pressure 60mmHg~280mmHg | | |
| | Diastolic Pressure | 30mmHg~200mmHg | |
| Marana and Danas | Pressure | 0mmHg~300mmHg | |
| Measurement Range | Pressure | ±3mmHg | |
| | Pulse | 30 ~ 180 Beats/Minute | |
| | Pulse | ±5% | |
| Pressurization | Automatic Pressuriz | zation | |
| Memory | 120 Memories in Two Groups with Date and Time | | |
| | Irregular Heartbeat Detection | | |
| | WHO Classification Indicator | | |
| | Last 3 Results Average | | |
| Function | Low Battery Detection | | |
| Function | Automatic Power-Off | | |
| | Voice | | |
| | Backlight | | |
| | Bluetooth | | |
| Power Source | 4 AA batteries | | |
| Battery Life | Approximately 2 months at 3 tests per day | | |
| Unit Weight | Approx.425g (14.99 oz.) (excluding battery) | | |
| Unit Dimensions | Approx.166 x 114 x 72mm (6.54" x 4.49" x 2.83")(L x W x H) | | |
| Cuff Circumference | Medium cuff: Fits arm circumference 22-36 cm | | |
| | Temperature | 10℃ ~ 40℃ (50°F~104°F) | |
| Operating Environment | Humidity | 15%~93%RH | |
| | Pressure | 700hPa~1060hPa | |

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.

| Guidance and declaration of manufacturer-electromagnetic e | 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

| | | T |
|---|-------------------|---|
| 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 | |

Table 2

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 environm-

| ent. | | | |
|---|---|---|--|
| IMMUNITY test | IEC 60601 test level | Compliance level | Electromagnetic environment -guidance |
| 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 | 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 | , 270° and 315° | 135°, 180°, 225 | 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 commercial or hospital environment. |
| | • | | • |

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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.

| IMMUNITY test | IEC 60601 test level | Compliance level | Electromagnetic environment -guidance |
|----------------------------------|--|---|--|
| Conducted RF IEC 61000-4-6 | 3V for 0.15- 80MHz; 6V in ISM and amate -ur radio bands between 0.15- 80MHz | 3V for 0.15- 80MHz; 6V in ISM and amate -ur radio bands between0.15- 80MHz | 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 |
| Radiated RF IEC 61000- | 385MHz, 27V /m | 385MHz, 27V /m | from the equation applicable to the frequency of the transmitter. |
| 4-3 | | | Recommended seperation distance |
| | 450MHz, 28V /m | 450MHz, 28V /m | $d = \left[\frac{3.5}{E_1}\right]\sqrt{P}$ 80 MHz to 800 MHz |
| | 710MHz,745 MHZ,780MHz 9V/m | 710MHz,745 MHZ,780MHz 9V/m | $d = \left[\frac{7}{E_1}\right] \sqrt{P} 800 \text{ MHz to } 2.7 \text{ Ghz}$ where P is the maximum output power rating of the transmitter in watts (W) according to the transm- |
| | 810MHz,870 MHZ,930MHz 28V/m | 810MHz,870 MHZ,930MHz 28V/m | itter manufacturer and d is the recommended separation distance in metres (m). |
| | 1720MHz,1845 MHZ,1970MHz 28V/m | 1720MHz,1845 MHZ,1970MHz 28V/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. |
| | 2450MHz, 28V /m | 2450MHz, 28V /m | Interference may occur in the vicinity of equipment marked with |
| | 5240MHz,5500 MHZ,5785MHz 9V/m | 5240MHz,5500 MHZ,5785MHz 9V/m | the following symbol: $\left(\begin{pmatrix} \bullet \\ \bullet \end{pmatrix} \right)$ |

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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 | 3 1 1 | | |
|-----------------|---|---|--|
| output power of | ľ | n | |
| 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 | 0.38 | 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.