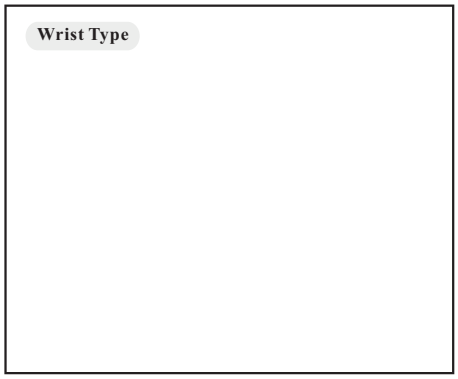
Owner's Manual

Wrist-type Fully Automatic Blood Pressure Monitor

Model DBP-8288B



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Importer

CE 0123

The product is in compliance with the requirements of the Regulation (EU) 2017/745 MDR on medical device, "0123" is the identification number of notify body

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Safety Notice 2

Thank you for purchasing the DBP-8288B Blood Pressure Monitor. The unit has been constructed using reliable circuitry and durable materials. Used properly, this unit will provide years of satisfactory use.

The digital blood pressure monitor is intended for measurement the systolic and diastolic blood pressureand pulse rate from wrist of adults and adolescents over the age of 12 by using a non-invasive technique. The device can be reusable for clinical use and home use.
All functions can be used safely and values can also be read out on the LCD DISPLAY. The measurement position is placed only on the wrist of an adult. This PATIENT is an intended OPERATOR.

Please read this manual thoroughly before using the unit. Please retain this manual for future reference. For specific information about your blood pressure, please CONSULT YOUR DOCTOR. The PATIENT is an intended OPERATOR.

To avoid risk and damage follow all warning precautions. Operate unit only as intended. Read all instructions prior to use.

Safety Notice 3

WARNING SIGNS AND SYMBOLS USED	
⚠	Caution
❗	Mandatory
⊘	Prohibited
	Type BF Equipment
	Instructions For Use MUST be Consulted
SN	Serial Number
	Discard the used product to the recycling collection point according to local regulations
CE 0123	The product conforms to the requirements of the Regulation (EU) 2017/745 MDR on medical devices
	Manufacturer
EU REP	European Union Authorized representative
	Keep off Sunlight
	Manufacturing Date
MD	Medical Device

Safety Notice 4

-25℃ 55℃	Represents transport and storage temperature limits
0% 93%	Represents transport and storage humidity limits

⚠ Caution	
Individuals with serious circulation problems may experience discomfort. Consult your physician prior to use.	❗
Contact your physician if test results regularly indicate abnormal readings. Do not attempt to self-treat these symptoms without consulting your physician first.	
Product is designed for its intended use only. Do not misuse in any way.	⊘
Product is not intended for infants or individuals who cannot express their intentions.	
Do not disassemble or attempt to repair.	
Do not use cell phones and other devices, which generate strong electrical or electromagnetic fields, near the device, as they may cause incorrect readings and interference or become interference source to the device.	

⚠ Battery Precautions
Do not mix new and old batteries simultaneously.
Replace batteries when Low Battery Indicator " ▭ " appears on screen.
Be sure battery polarity is correct.
Do not mix battery types. Long-life alkaline batteries are recommended.
Remove batteries from device when not in operation for more than 3 months.
Dispose batteries properly; observe local laws and regulations.

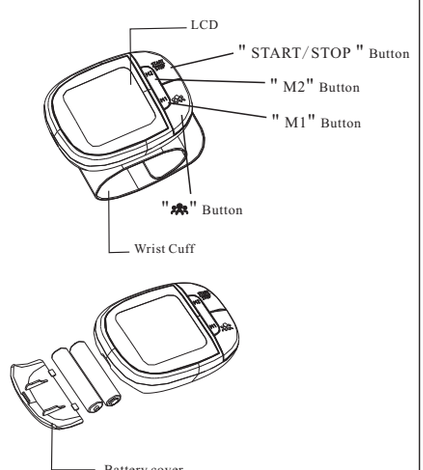
Important Instructions Before Use

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.

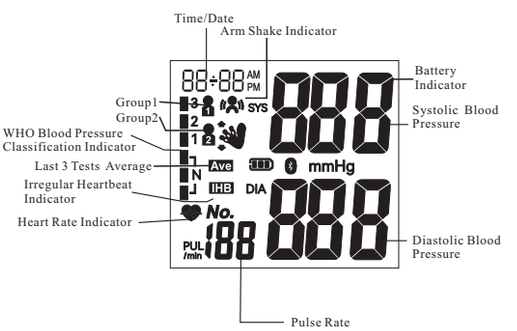
8. Too frequent measurements can cause injury to the patient due to blood flow interference.
9. The cuff should not be applied over a wound as this can cause further injury.
10. **DO NOT** attach the cuff to a limb being used for IV infusions or any other intravascular access, therapy or an arterio-venous (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 anyway.
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 wrist cuff. Do not attempt to repair.
19. Use only the approved wrist cuff for this unit. Use of other wristcuffs may result in incorrect measurement results.
20. The system might produce incorrect readings if stored or used out-side 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.
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. Do not insert the batteries with their polarities incorrectly aligned.
27. Dispose batteries properly; observe local laws and regulations.
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.

Monitor Unit



Display



Unit Illustration

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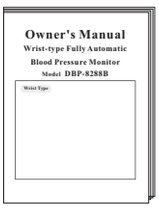
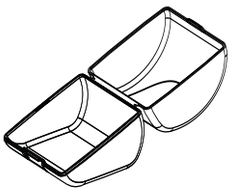
1.Monitor Unit



2.Owner's Manual



3.Plastic Storage Case

Important Testing Guidelines

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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 wrist 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 wrist, 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.

Quick Start

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1. Install batteries. (See Figure A)

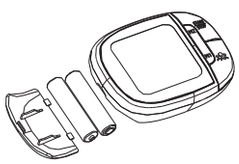

Figure A

2. Remove clothing from the wrist area. (See Figure B)
3. Rest for several minutes prior to testing. Wrap cuff around left wrist. (See Figure C)

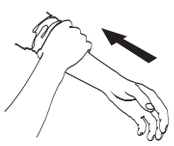

Figure B

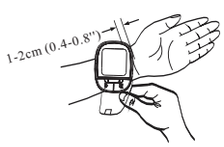

Figure C

Quick Start

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4. Sit in a comfortable position and place wrist level with heart. (See Figure D)
5. Press "START/STOP " button to start testing. (See Figure E)

Figure D

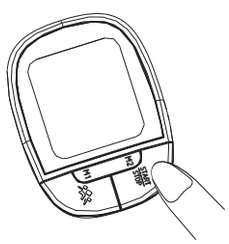

Figure E

Unit Operation

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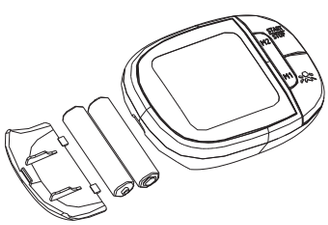
Battery Installation

Slide battery cover off as indicated by arrow.

Install 2 new AAA alkaline batteries according to polarity.

Close battery cover.



Note:
1) Replace batteries when Low Battery Indicator " " appears on screen.
2) Batteries should be removed from device when not in operation for an extended period of time.

Unit Operation

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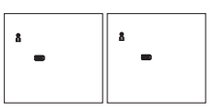
System Settings

With power off, press and hold " " button to actuate system setting .The Memory Group icon flashes.

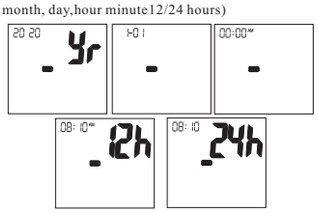
1. Secect memory Group

Wile in the System Setting mode you may accumulate test rescuts into 2 diffterent groups. This allows multiple users to save individual test results (up to 150 memories per group). Press “M1” button or “M2” button to choose a group setting. The test results will automatically store in each selected group.

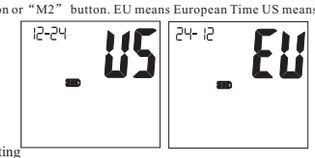


2. Time/Date setting

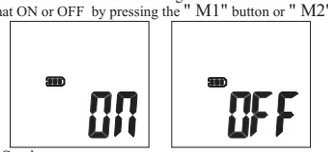
Press " " button again to set the Time/Date mode. Set the year first by adjusting the “M1” button or “M2” button. Press " " button again to confiom curret month. Continue setting the day, hour and minute in the same way. Every time the " " button is pressed, it will lock in your seletion and continue in succession (month, day,hour minute12/24 hours)



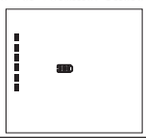
3. Time Format Settung.
Press " " button again to set the time format mode.Set the time format by adjusting the "M1" button or "M2" button. EU means European Time US means U.S Time.



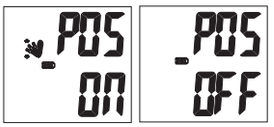
4. Voice Setting
Press " " button to enter voice setting mode. Set the voice format ON or OFF by pressing the " M1" button or " M2" button.



5. Volume Settings
Press " " button to enter volume setting mode.
Set the voice volume by adjusting the "M1" button or "M2" button.
Smaller " " is for lower volume. There are six volume levels.



6. Settings of cuff keeping level with heart
Press " " button to enter Settings of cuff keeping level with heart .Set the Function of cuff keeping level with heart ON or OFF by pressing the " M1 " button or " M2 " button.



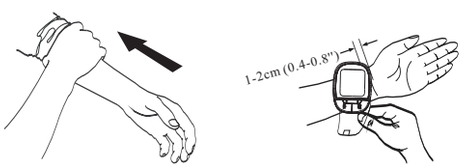
7. Save Settings
While in any setting mode, press " START/STOP " button to turn the unit off. All information will be saved.

Note: Unit will automatically save all information and shut off if left idle for 3 minutes.

Applying The Wrist Monitor

Do not apply over clothing. If wearing a long sleeved shirt, be sure to roll sleeve back to forearm.

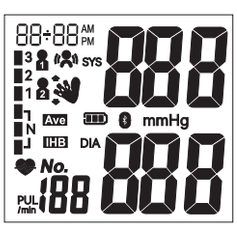
Apply monitor to wrist as illustrated. Tighten cuff firmly as not to wiggle.



Do not stand while testing. Sit in a comfortable position with back supported, feet flat on the floor with legs uncrossed. Place middle of the cuff at the level of the right atrium of the heart.

Testing

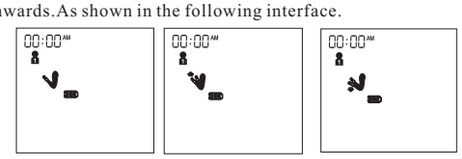
1. Power On
Press "START/STOP " button to turn on the unit . The LCD screen will appear for one second as unit performs a quick diagnosis. A voice tone will indicate when unit is ready for testing.



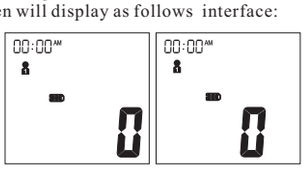
Note: Unit will not function if residual air from previous testing is present in cuff. The LCD will flash " " until pressure is stabilized.

2.Make sure the wristband is level with the heart

When the wristband does not keep level with the heart, if the wristband is lower than the heart,the LCD screen displays and flashes " ", please shift your wrist upwards.If the wristband is higher than the heart, the LCD screen will displays and flashes " ",please shift your wrist downwards.As shown in the following interface.

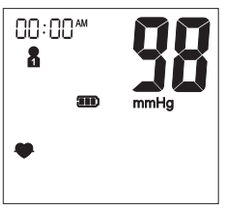


When the wrist strap and the heart remain level, enter the zero grasp, the LCD screen will display as follows interface:



3. Testing

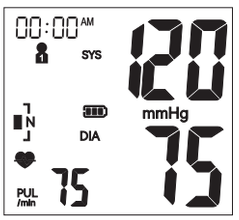
After cuff inflation, air will slowly rise as indicated by the corresponding cuff pressure value. A flashing " ♥ " will appear simultaneously on screen signaling heart beat detection.



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

4. Result Display

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



Note: Refer to Page 31~32 for detail WHO Blood Pressure Classification Information.

Irregular Heartbeat Indicator

If the monitor detects an irregular heart rhythm two or more times during the measuring process, the Irregular Heartbeat Symbol " IHB "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 " IHB " frequently appears with your test results.

Power Off

The " START/STOP " button can be pressed to turn off the unit in any mode.

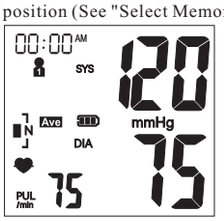
The unit can turn off the power itself about 3 minutes no operation in any mode.

Safety Precaution: If pressure in cuff becomes too extreme while testing, press the "START/STOP " button to turn power off.

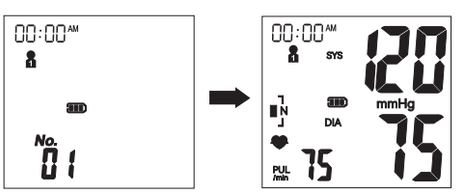
The cuff pressure will rapidly dissipate once the unit is off.

Memory Check and Last 3 Tests Average

With power off, press the " M1 " button or " M1 " 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 . The " AVG " symbol will appear along with the corresponding WHO Blood Pressure Indicator. Among them, press the " M1 " button Refer to memory group1, press the " M2 " button Refer to memory group2,or select the desired group first prior to activating the " M1 " button or " M1 " button in the off position (See "Select Memory Group" on page 16).



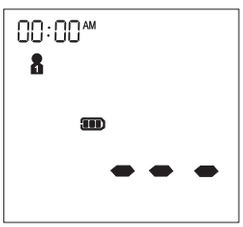
Press the "M1" button or "M2" button again, you may check past test results.Upon activating test results, you can press the"M1 "button or "M2 "button to scroll through all test results stored in memory. The LCD will display the last memory as NO: 01 reading. ("M1 "button means turn forward,"M2 "button means turn back.)



Note: Past test results will only be displayed from the most recently used memory group. To check past test results in other memory groups, you must Press corresponding button or select the desired group and then turn monitor off . (See Select Memory Group on Page 16.)

Memory Deletion

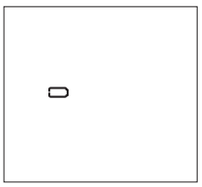
Memory for a selected group may be deleted while in Memory Check mode. Press and hold the " ❀ " button 3 second for approximately 3 seconds to delete all memory records from the selected group with voice broadcast " Memory Clear " . And then transfer into testing mode. Press the "START/STOP " button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



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

Low Battery Indicator

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

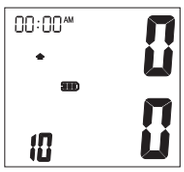


Arm Shake Indicator

If there is arm movement during the measurement, the " ((👤)) " icon may flash. Indicates that the measurement results may be inaccurate, and the situation will be recorded at the end of the measurement as a reminder.

Static Pressure Measurement

In the power down state, press and hold the "START/STOP" button 3 second, 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 10 is a software version in the figure.



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

Usage Scenario

The sphygmomanometer itself has a display screen. When the sphygmomanometer completes the blood pressure measurement and displays the measurement results, the sphygmomanometer displays the blood pressure measurement results on the built-in display screen and transmits the measurement results to the mobile phone or other terminal APP through Bluetooth.Data transmission is one-way transmission, data will only be transmitted from the sphygmomanometer device to the terminal APP.The terminal APP is only used as a data collection and record, and the sphygmomanometer device is not controlled and affected by the terminal APP.If the data collected by the terminal APP is lost, the user can also view the results through the display of the blood pressure monitor.

Bluetooth usage method-Bluetooth Connection

1. Please use your mobile phone or other terminal device to search the keyword "JoyTech" through Google App Store or Apple App Store to download and install the app.
2.Open the application program on your mobile phone or other terminal device. Apps need to be used with Bluetooth enabled, which you can turn on under your smartphone's Settings menu.
3.Create a new user login, or login with your existing user name and password.
4. Click on "Bind Device" on the APP homepage, and a pop-up window will appear. Follow the popup window to operate the blood pressure monitor device (when turned off, long press the "Memory" button to guid the screen to flash) to Bind ,and the blood pressure monitor device has entered binding mode.

5.Clicking on the "Scan Devices"on the pop-up window will search for nearby blood pressure monitor devices on the APP. When our device is found, clicking on "Pair this Device" will bind the device, and the blood pressure monitor device screen will display the Bluetooth logo, indicating that the device is successfully bound to the APP.

6.Turn off the blood pressure monitor.
7.Keep the mobile phone or other terminal device open the application program, operate the sphygmomanometer device to measure blood pressure, and the sphygmomanometer results will be synchronously displayed on the application through Bluetooth transmission after the measurement is completed.

Notes:
Only devices and applications that BIND to each other can communicate properly. If the Bluetooth communication fails or fails for some reason during the use of the device, restart the application or re-bind the device. At the same time, the user can obtain the measurement data through the display of the sphygmomanometer device

Troubleshooting

Abnormal phenomenon	Cause analysis	Processing method
Abnormal sphygmomanometer	The armband is tied too tight or too loose, Or the arm strap is tied incorrectly;	Roll the armband correctly
	Move the arm during measurement orElectronic sphygmomanometer	Stay quiet, keep your arm steady, and do not move the monitor
	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	Improper compression caused by arm or body movement	Hold the arm or body still and measure again
Er4	The pressure exceeds 300mmHg	Please fasten the cuff before measuring
Er5	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
Er6	Blood pressure measurements were out of range	Please tighten and measure again. If you cannot solve the problem, please contact the meanufacturer
▭	low battery	Replace the battery or connect the power adapter (if any).

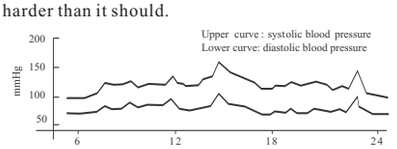
Note: If you cannot solve the abnormal situation by yourself, you can consult the manufacturer or the manufacturer's designated unit by phone. It is forbidden to disassemble and repair without permission. If necessary, professional maintenance personnel can ask the manufacturer for the list of components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

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.

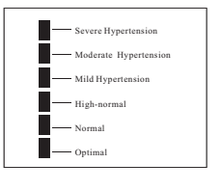


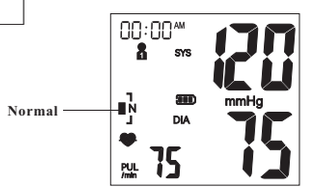
Example: fluctuation within a day (male, 35 years old)

Blood Pressure Information

WHO Blood Pressure Classification Indicator

The DBP-8288B 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.



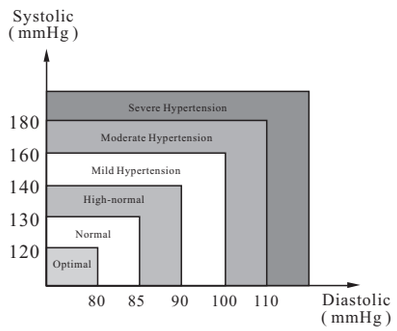


▮: Blood Pressure Classification Indicator

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 the early stages.



Blood Pressure Information

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 physician 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:

1. Improper cuff placement
   Make sure cuff is snug-not too tight or too loose.
2. 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.

Blood Pressure Q & A

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 wrist? What is the difference?

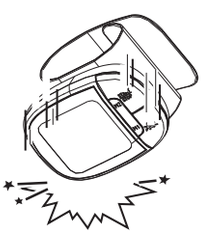
A: Either wrist can be used when testing, however, when comparing results, the same wrist should be used.
Testing on your left wrist may provide more accurate results as it is located closer to your heart.

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

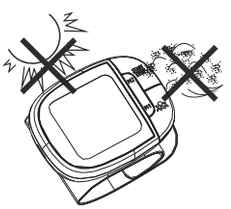
A: Morning time or any time you feel relaxed and stress free.

Maintenance

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



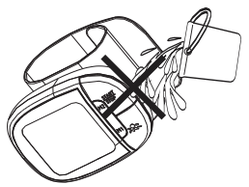
2. Avoid extreme temperatures. Do not use outdoors.



Maintenance

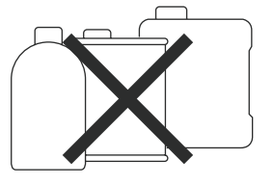
3. When cleaning the unit, use a soft fabric and lightly wipe with mild detergent. Use a damp cloth to remove dirt and excess detergent.

4. Cuff Cleaning: Do not soak cuff in water! Apply a small amount of rubbing alcohol to a soft cloth to clean cuff's surface. Use a damp cloth (water-based) to wipe clean. Allow cuff to dry naturally at room temperature. The cuff must be cleaned before use between different users.

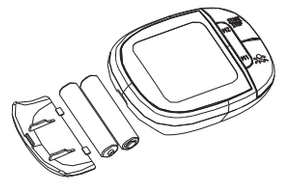


Maintenance

5. Do not use petrol, thinners or similar solvents.



6. Remove batteries when not in operation for an extended period of time.



Maintenance

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

Product Description	Wrist-type Fully Automatic Blood Pressure Monitor	
Model	DBP-8288B	
Display	LCD Digital Display Size:43.7mm x 40mm(1.72" x 1.57")	
Measurement Method	Oscillometric Method	
Measurement Range	Systolic Pressure	60mmHg～260mmHg
	Diastolic Pressure	40mmHg～200mmHg
	Pressure	0mmHg～299mmHg
	Pressure	±3mmHg
	Pulse	30～180 Beats/Minute
	Pulse	±5%
Pressurization	Automatic Pressurization	
Memory	2X60 Memories in Two Groups with Date and Time	
Function	Irregular Heartbeat Detection	
	WHO Classification Indicator	
	Last 3 Results Average	
	Low Battery Detection	
	Automatic Power-Off	

Specifications

Function	Voice	
	Backlight	
	Bluetooth	
Power Source	2 Alkaline Batteries Size AAA	
Battery Life	Approximately 2 months at 3 tests per day	
Unit Weight	Approx. 99g （3.49 oz）(Excluding Battery)	
Unit Dimensions	Approx. 84mm×62mm×25mm(L x W x H) (3. 31" x 4.25"x 2.56")	
Cuff Circumference	Fits wrist circumference 13.5-21.5 cm(5.3"-8.5")	
Operating Environment	Temperature	10℃～40℃ (50℉~104℉)
	Humidity	15%~93%RH
	Pressure	800hPa~1060hPa
Storage Environment	Temperature	-25℃~55℃ (-13℉~131℉)
	Humidity	≤93% RH
Ingress Protection Rating	IP 22	
Classification	Internal Powered Equipment Type BF	

Specifications

Continued

Bluetooth	Modulation Type	GFSK
	Version	5.2 BT Signal mode
	Operation frequency	2. 4GHz (2400~2483. 5MHz)
	Operation distance	≤ 5m
	Transmission power	<20dBm
	Bandwidth	1.0 MHz

Specifications are subject to change without notice.
This Blood Pressure Monitor complies with the European regulations and bears the CE mark“CE 0123”.This blood pressure monitor also complies with mainly following standards
(included but not limited):
Safety standard:
EN 60601-1 Medical electrical equipment part 1: General requirements for safety EMC standard:
EN 60601-1-2 Medical Electrical Equipment -- Part 1-2: General Requirements For Basic Safety And Essential
Performance -- Collateral Standard:
Electromagnetic Disturbances –Requirements And Tests.

Specifications

Performance -- Collateral Standard:
Electromagnetic Disturbances –Requirements And Tests.
Performance standards:
IEC80601-2-30, Medical electrical equipment – Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers.
EN 1060-3 Non-invasive sphygmomanometers - Supplementary requirements for electromechanical blood pressure measuring systems.
ISO 81060-2, non-invasive sphygmomanometers - part 2: clinical validation of automated measurement type.

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 Pressue Monitor due to improper handling. Please contact local retailer for details.

Contact Information
JOYTECH Healthcare Co.,Ltd.
No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City,311100 Zhejiang, China

Please contact us on:
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Telephone: +86-571-81957767
Fax: +86-571-81957750

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, ClassB	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	N/A	
Harmonic emissions IEC 61000-3-2	N/A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	N/A	

Electromagnetic Compatibility Information

Table 2(continued)

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**
Radiated RF EM fields IEC 61000-4-3	3V/m or 10 V/m 80MHz-2.7 Ghz 80%AM at 1kHz	3V/m or 10 V/m 80MHz-2.7 Ghz 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:
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 transm- itter 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:

Electromagnetic Compatibility Information

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 Monitor has 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 as 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 ± 5 kHz deviation 1 kHz sine	2	0.3	28
710 745 780	704-787	LTE Band 13, 17	Pulse modulation 217Hz	0.2	0.3	9
810 870 930	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18Hz	2	0.3	28
1720 1845 1970	1700-1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation 217Hz	2	0.3	28
2450	2400-2570	Bluetooth,WLAN, 802.11 b/g/n,RFID 2450,LTE Band 7	Pulse modulation 217Hz	2	0.3	28
5240 5500 5785	5100-5800	WLAN 802.11 a/n	Pulse modulation 217Hz	0.2	0.3	9

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 output power of transmitter W	Separation distance according to frequency of transmitter m	
	80 MHz to 800 MHz $d=[\frac{3.5}{E_1}]\sqrt{P}$	800 MHz to 2.7 GHz $d=[\frac{7}{E_1}]\sqrt{P}$
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.

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 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 evaluation report , and the file code is **NYRJ220315049.**

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.Indications for use:

The digital blood pressure monitor is used to measure blood pressure and pulse rate from wrist.

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.

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 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:

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.Warning:

The Operator should not use the system and should inform the customer service, if the ESSENTIAL PERFORMANCE is lost or degraded due to EM DISTURBANCES.

22.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.

Additional Notes

23.Warning:

Failure to use this equipment in the specified type of shielded location could result in degradation of the performance of this equipment, interference with other equipment or interference with radio services

24.ME equipment not intended for use in conjunction with flammable agents “ME equipment not intended for use in oxygen rich 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.