

Electronic Blood Pressure Monitor

JPD-HA300 User Manual

Version: V2.0
Revision Date: 2020.3

Product Composition
The product is comprised of the host machine and the cuff of Electronic Blood Pressure Monitor.

Application Scope
The Electronic Blood Pressure Monitor is used to measure the diastolic pressure, systolic pressure and pulse rate of adults by oscillometric method for diagnostic reference.

Safety Precautions

The warnings and illustrations shown in the User Manual enable you to use the product safely and correctly, thus preventing you and others from being injured, specifically as follows:

Legend, mark and meaning	
	Warning message
	Anti-electric shock degree is Type BF of the application part
	When the product life expires and the end users discard the products, send them to the designated collecting and separating place for disposal according to the requirements from the local environmental protection authority.
	Consult the instructions for use.
IP21	Degree of protection against the ingress of water.

Quick Start Guide

Avoid smoking, eating, drinking caffeinated drinks or exercising for 30 minutes before taking measurement.

- Sit upright in a chair with both feet on the floor.
- Remove tight fitting clothing from your upper arm along with any thick clothing.
- Pull on the end of the cuff until it wraps securely around your upper arm. Place your arm on a table so that the cuff will be at the same level as your heart.
- The cuff will automatically inflate and the measurement will start, upon pressing the "Power" button.
- When the measurement is complete, the cuff will automatically deflate and your systolic and diastolic pressure values and pulse rate will be displayed.

Overview

Monitor

Features

- Universal Cuff
- Irregular Heartbeat Detector
- Average of last 3 readings
- Backlight
- 99 Readings * 2 Users
- Auto-off Power Saving Feature
- Operated by 4 AAA batteries (USB 5V optional)

Display

Packing List

No.	Name	Quantity
1	Electronic Blood Pressure Monitor	1
2	Cuff	1
3	Dry Battery (AAA)	4
4	User Manual	1
5	Easy-to-carry Storage Bag	1

Preparation

2.1 Battery Installation
a) Open the battery cover as shown in the picture.
b) Place 4 AAA dry batteries. Pay attention to the battery electrode indication.

2.2 Battery power indication and replacement
After the product is turned on, if low power symbol appears on the screen, the measurement cannot be performed, and the battery must be replaced.

Do not use any expired battery;
 If the product is not used for over 3 months, please take out the batteries.

2.3 USB Power Supply
USB line can be connected for power supply of the product without battery.

2.4 Cuff
The applicable arm circumference range of the cuff is 22-36cm or 22-42cm.

Connection: Insert the air plug of cuff air tube into air jack of the Electronic Blood Pressure Monitor. Figure shown as above.

Function Setting Mode

3.1 User mode
In the shutdown state, press the "User" button for 3 seconds, the screen displays "User 1" or "User 2" and flickers continuously. Press the "Memory" button to switch to the other user. (System default user: User 1)

(Note: In the shutdown state, press "User" button to view the current time and the current user)

3.2 Year/Month/Date/Time setting
In the shutdown state, press the "User" button for 3 seconds to enter the setting mode. Press the "User" button to enter the year setting mode (or automatically enter the year setting mode after the batteries are reloaded and the device is powered on), the screen displays 20XX and flickers continuously, press the "Memory" button to increase the value which can be switched among 2019 and 2099. Press the "User" button for confirmation and enter the month setting mode. After entering the month setting mode, the screen will display xx-xx and flash on the month. Press the "Memory" button to increase the value which can be switched among 1 and 12, press the "User" button for confirmation and enter the date setting mode. After entering the date setting mode, the screen will display xx-xx-xx and flash on the date. Press the "Memory" button to increase the value which can be switched among 01 and 31, press the "User" button for confirmation and enter the time setting mode. After entering the time setting mode, the screen will display xx:xx and flash on the time. Press the "Memory" button to increase the value which can be switched among 00 and 59, press the "User" button for confirmation and enter the talking function setting.

Note:
When setting time values, continue pressing the "Memory" button till the correct values are well set. Value ranges are year (2019-2099), month (01-12), date (01-31), hour (1-12 AM/PM) and minute (00-59).

When the ceiling value of a certain time sector is reached, the relevant value of the sector will start from the minimum individually.

3.3 Talking function setting (voice version only)
After entering talking function setting mode, "5P" will show up at the SYS area, with the current voice status "ON" and voice icon (not displayed, when talking function mode is off) at the DIA area. Press the "Memory" button to switch the voice status, and press the "User" button for confirmation and enter the unit display setting.

3.4 Unit setting
After entering the unit setting mode, the high-pressure area will display "PR" and unit area will display mmHg, it means the unit mmHg is selected (system default unit: mmHg). At this time, press on the "Memory" button, the unit will be switched, it means the unit kPa is selected. After selecting the unit, press the "User" button again to save the unit setting.

Correct Method of Use

4.1 How to use the cuff

- Place the cuff flat on the table, leave the hook & loop downwards, and pass the end of cuff through the metal ring to form a loop. The hook & loop shall point outwards.
- Pull the cuff through the upper arm to be measured, and wear the cuff correctly based on the downward icon "Φ", the air tube runs down the inside of your arm.
- Hook up the cuff on the upper arm according to the illustration, ensure that the lower edge of cuff is 2-3cm away from the elbow joint.
- Tighten the free edge of cuff to stick the hook & loop.
- The cuff should be wrapped on the upper arm comfortably, with tight space for two fingers. Before measurement, remove tight fitting clothing from your upper arm along with any thick clothing.
- Place the lower arm flat on the desktop, leaving the center of palm naturally upwards, sitting upright, and ensuring the center of cuff and the heart at the same level. Note that the tube of cuff cannot be folded or bent.

Note: If you cannot use the left arm for measurement, please use the right arm for measurement. All the measurements must be performed on the same arm for comparison.

Specifications

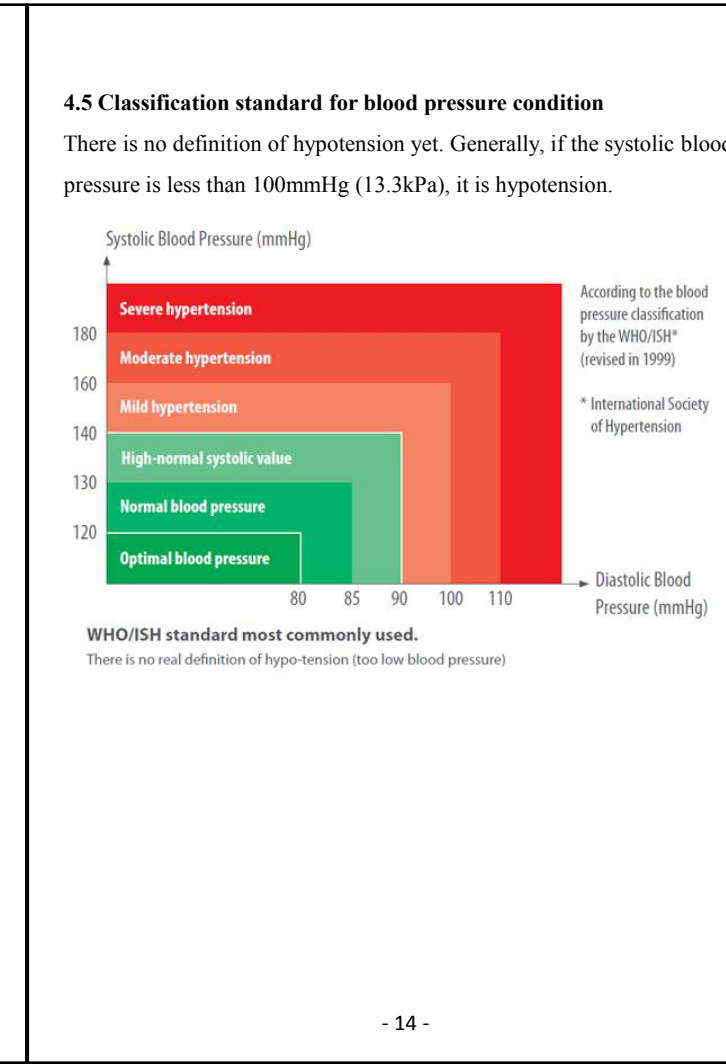
Product Name	Electronic Blood Pressure Monitor
Model	JPD-HA300
Display Mode	Digital display mode
Measuring Mode	Oscillographic method
Measuring Body Part	Upper arm
Measuring Range	Pressure value 0-295mmHg (0kPa-39.3kPa)
	Pulse value 40-199 pulse beats/min
Static measurement accuracy	Pressure value ±3mmHg (±0.4kPa)
	Pulse value ±5% of read value
LCD display	Pressure Unit: mmHg/ kPa
	Pulse Pulse rate per minute, displaying three digits
Storage capacity	It can store 99 groups of measurement data for each of two users
Power supply	4 AAA dry batteries /DC 5V USB external power supply
Power Off Mode	Manual power-off/ Auto power-off
Device weight (without batteries)	About 195g

4.2 Starting measurement
After you wear the cuff correctly, you can start the measurement:
(1) Press the "Power" button, and the device will return to zero automatically, the air pump will start to inflate the cuff, and the screen will display the change of the pressure in the cuff.
(2) When reaching the stable pressure upon inflation, the air pump will stop the inflation, and the pressure in the cuff will be reduced gradually and displayed on the screen. If the inflated pressure is insufficient, the device will reinflate the cuff automatically for a higher pressure;
(3) When the pulse is measured, the screen will display the "heart" symbol and start flashing. The flashing "heart" symbol will be displayed on the screen.

(4) Upon measurement completion, the measured values of systolic pressure, diastolic pressure and pulse will be displayed on the screen.
(5) The screen will continue to display the measurement results, unless your long-press on the "Power" button to turn off the device. If there is no operation, the device will be powered off automatically in 30s.

4.3 Using memory function
This blood pressure monitor is available for 2 users with 99 memories per user. When there are over 3 measurement data, press "Memory" button for the average values of the latest 3 measurement data, recorded as "0". Track the memory data by pressing "Memory" button for the latest measurement, recorded as "1". Then track "2", "3" or more via the same operation.

4.4 Clearing stored measurement data
In the shutdown state, long-press "Memory" button and "User" button for 3 seconds until "RL" shows in the SYS area and "EE" shows in the low DIA area, thus all the measurement data of the current user are deleted.



Contraindications, Precautions, Warnings and Prompt Instruction

(1) Warning:

- Keep the device out of reach of the children under 12 and people who can't express their intention. When children of 12-18 use the device, they should be accompanied by the adults. Pregnant women shall use under the guidance of doctors.
- Do not wrap the cuff over a wound, as this can cause further injury.
- This model of Electronic Blood Pressure Monitor is suitable for the arm circumference range of 22-36cm or 22-42cm, and if the arm circumference exceeds this range, you might fail to obtain the correct measured value of blood pressure.
- This model of Electronic Blood Pressure Monitor is not suitable for newborns or young children;
- The blood pressure is constantly changing. You shall not judge the blood pressure condition with just one measurement result. The repeated measurement data over a period of time will be more reliable;
- Do not make self-diagnosis according to the measurement results. Please consult your professional doctor with the measurement result record(s). The treatment based on the self-diagnosis of

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measurement results is very dangerous;

(2) Precautions:

- Do not repair, disassemble or modify the Electronic Blood Pressure Monitor without permission;
- Do not collide or fall down the host to avoid collision or strong impact of the device;
- Do not mix old and new batteries of different brands for use.
- Indoor temperature, environment, noise, user's body position, speech or exercise might affect the blood pressure measurements. The body movement, magnetic field and improper wearing of cuff and sensor will affect the measurement as well.

Troubleshooting

* If you have trouble using the device, please check the following instruction.

Problem	Possible cause	How to correct
No display when press the Power button	Low battery The polarities of batteries are installed wrongly.	Replace new batteries or use the USB for power supplying. Install the batteries in correct polarities.
No pressurizing	The air plug is loosely installed. The air tube is broken or leaked.	Make sure the air plug is securely inserted in the main unit. Purchase a new cuff.
"Err 1" displayed	The sensor doesn't work.	Please contact us for after-sale service.
"Err 2" displayed	No pulse detected	Please check if the cuff wearing is correct, and follow Section 4.1 How to use the cuff
"Err 3" displayed	The result of blood pressure is abnormal.	Please remeasure in the right way.

"Err 4" displayed	The cuff is twined too loose. The air bag of cuff is ruptured.	Please check if the cuff wearing is correct, and follow Section 4.1 How to use the cuff. Replace with a new cuff.
"Err 5" displayed	The air tube is detected to be obstructed in the early stage of pressurization.	Please check if the air tube is clogged or folded before measuring. Please measure again.
"Err 6" displayed	Signal interference	Remove interfering source e.g. mobile phones, magnets.
"Err 7" displayed	Pressure value exceeds the limit.	Don't touch the cuff during the measurement. Don't fold the air tube during the measurement.

Note: If your problem cannot be solved by the above, please contact customer service. Do not disassemble the device!

Storage & Maintenance

- Keep the device away from direct sunlight, extreme temperatures, humidity or moisture.
- Use a dry, soft cloth to clean the device, or if desired, use a cloth lightly dampened with water.
- Do not use alcohol, benzene, thinner or other volatile liquids to clean the device.
- Do not wash or expose the arm cuff to liquid.
- Remove batteries from the device when it will not be used for more than 3 months.

Disinfection:

- Recommended disinfecting agent:
- Isopropanol solution with 70% concentration
- Medical alcohol with 75% concentration

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Transportation and Storage Environment

Avoid strong impact, direct impact, exposure or rain during transportation. The packaged Blood Pressure Monitor shall be stored indoors at the temperature of -20°C-55°C and the relative humidity of 10%-93%, atmospheric Condition: 70kPa-106k, without corrosive gas and with good ventilation.

Monitor Size	132.8mm (length) *95.4mm (width) *68.6mm (height)
Screen Size	59mm (length) *47mm (width)
Cuff	Upper-arm-type cuff (measured arm circumference 22-36cm or 22-42cm)
Annexure	Cuff, User Manual, Dry battery, Easy-to-carry Storage Bag
Battery Life	High-performance dry battery can be used for about 300 times at normal temperature
Service Life	5 years
Date of Production	See label
	Temperature Condition 5 °C -40 °C Humidity Condition 15%-85 %RH
Operating environment	Atmospheric Condition 70kPa-106kPa

After-sale Service
After-sale service unit: Shenzhen Jumper Medical Equipment Co., Ltd.
Address: D Building, No. 71, Xintian Road, Fuyong Street, Baoan, Shenzhen, Guangdong, China
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