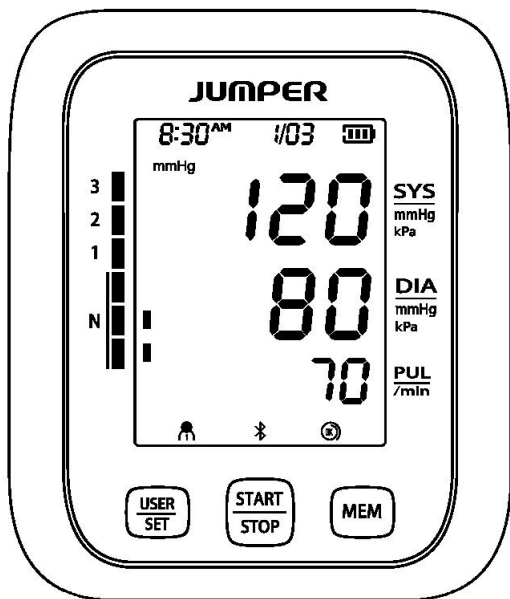


Electronic Blood Pressure Monitor



JPD-HA120 User Manual

Version: 2.2

Revision Date: 2022.04



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

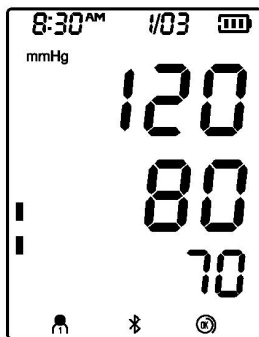
The warnings and illustrations shown in the User Manual enable you to use the product safely and correctly, thus preventing you and others from being injured, specifically as follows:

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.
	This product complies with the MDD93/42/EEC requirements.
IP21	Degree of protection against the ingress of water.
	Information of manufacturer
	Date of manufacture
	Authorized European Representative

Quick Start Guide

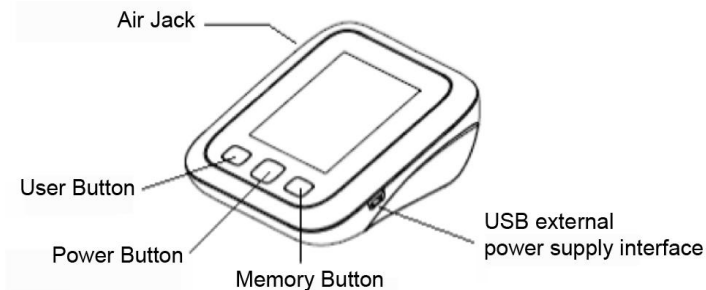
Avoid smoking, eating, drinking caffeinated drinks or exercising for 30 minutes before taking measurement.

1. Sit upright in a chair with both feet on the floor.
2. Remove tight fitting clothing from your upper arm along with any thick clothing.
3. 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.
4. The cuff will automatically inflate and the measurement will start, upon pressing the “START/STOP” button.
5. When the measurement is complete, the cuff will automatically deflate and your systolic and diastolic pressure values and pulse rate will be displayed.



Overview

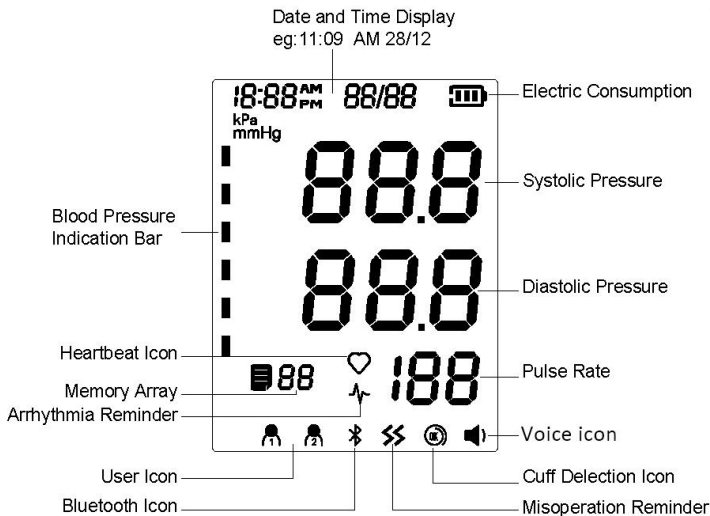
Monitor



Features

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

Display



Packing List

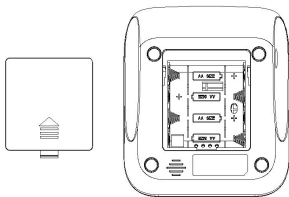
No.	Name	Quantity
1	Electronic Blood Pressure Monitor	1
2	Cuff	1
3	Dry Battery (AA)	4
4	User Manual	1
5	Zipped Carrying Bag	1

Preparation


2.1 Battery Installation

a) Open the battery cover as shown in the picture.

b) Place 4 AA 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;



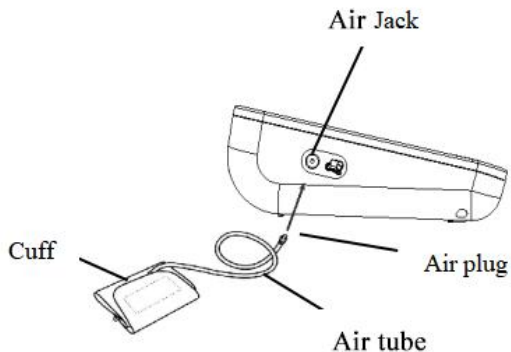
If the product is not used for over 3 months, please take out the batteries.

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.

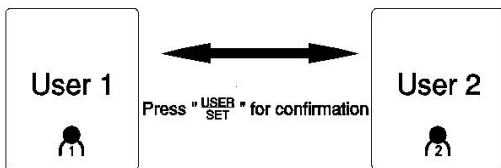


Connection: Insert the air plug of cuff air tube into air jack of the Electronic Blood Pressure Monitor. Figure shown as above:

Function Setting Mode

3.1 User mode

Switch between “User 1” and “User 2” can be processed in the “OFF” state or upon the measurement completion, by short press on the “USER” button.



3.2 Year/Month/Date/Time setting

In the “OFF” state, enter the setting mode by long press on the “USER” button for 3~5s.

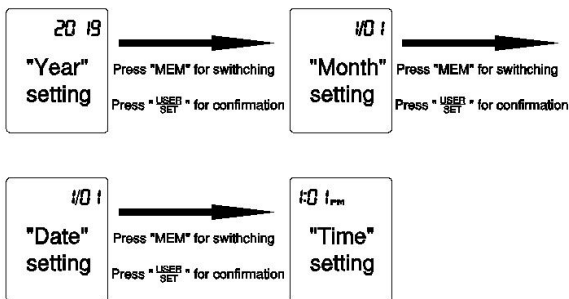
After entering the “Year” setting mode, the flashing 20XX will show on the screen. Press the “MEM” button, and the value will be incremented among 2019 and 2099. Press the “USER” button for “Year” value confirmation and move to the “Month” setting mode.

After entering the “Month” setting mode, 1/01 will flash on the screen. Press the “MEM” button, and the value will be incremented among 1 and 12. Press the “USER” button for “Month” value confirmation and

enter the “Date” setting mode.

After entering the “Date” setting mode, 1/01 will flash on the screen. Press the “MEM” button, and the value will be incremented among 01 and 31. Press the “USER” button for “Date” value confirmation and enter the “Time” setting mode.

After entering the “Time” setting mode, XX:XX will flash on the screen. Press the “MEM” button, and the “Hour” value will be incremented among 1~12 AM/PM. Press the “USER” button for “Hour” value confirmation and enter the “Minute” setting mode. Press the “MEM” button, and the value will be incremented among 00 and 59.



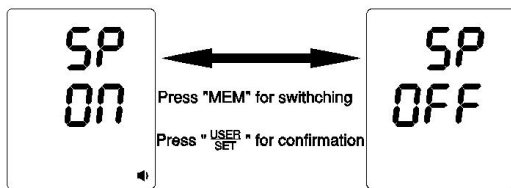
Note:

When setting time values, continue pressing the "MEM" 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.

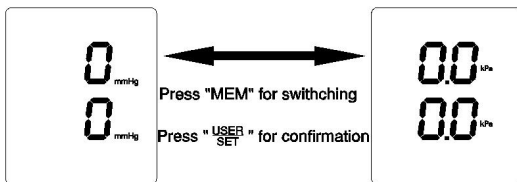
3.3 Talking function setting (voice version only)

After entering talking function setting mode, “SP” will show up at the SYS area, with the current voice status “ON” / “OFF” and voice icon (not displayed, when talking function mode is off) at the DIA area. Press the “MEM” button to switch the voice status, and press the “USER” button for confirmation.



3.4 Unit setting

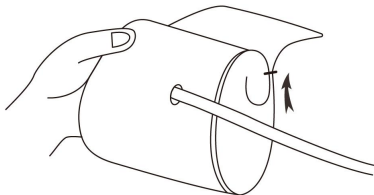
Either 0 or 0.0 will show up on the screen, upon entering the “Time” setting mode, by pressing the “USER” button. Display of 0 indicates that the mmHg unit is selected; display of 0.0 indicates that the kPa unit is selected. Unit will be switched upon every press on the “MEM” button. After the unit is selected, press the “USER” button again to save the unit setting.



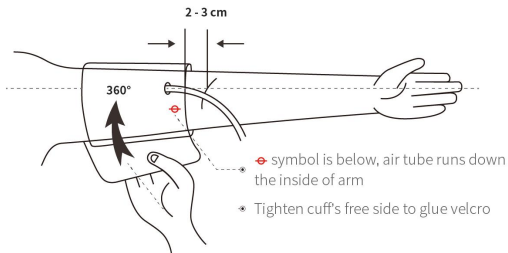
Correct Method of Use

4.1 How to use the cuff

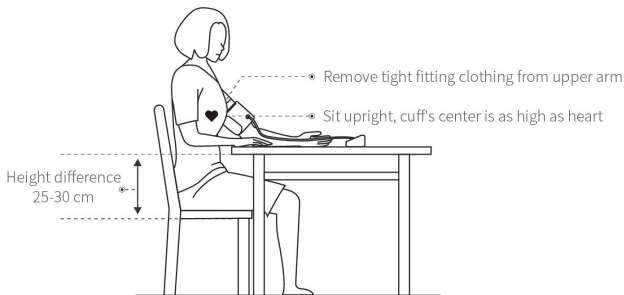
(1) Place the cuff flat on the table, leave the hook & loop downwards, and pass the end of cuff through the metal ring to form a loop. The hook & loop shall point outwards.



(2) 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.



(3) 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 are 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.

4.2 Starting measurement

Power on state, after you wear the cuff correctly, the “cuff detection icon (OK)” lights up, then you can start the measurement:

(1) Press the “START/STOP” 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 “START/STOP” button to turn off the device. If there is no operation, the device will be powered off automatically in 30s.

Note: When the icon  shows up, it means body movements during the measurement, which may result in incorrect measurement.

4.3 Using memory function

This blood pressure monitor is available for the storage of 99 memories for each of 2 users. If the 99 groups of memory data are full, they will be replaced automatically. After the blood pressure monitor has been used for several times, in the OFF state, you can press the “MEM” button to

display the latest measurement result, and track the rest data one by one via pressing the “MEM” button. When there are over 3 measurement data, press “MEM” button for the average values of the latest 3 measurement data, recorded as “0”. Track the memory data by pressing “MEM” button from the latest measurement, recorded as “1”. Then track “2”, “3” or more via the same operation.

4.4 Clearing stored measurement data

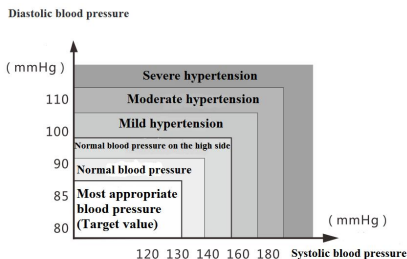
In memory mode, you can delete all the measurement data of the two users by pressing the “MEM” button for 3 seconds.

4.5 Use Bluetooth function

See the User manual of Jumper Health.


4.6 Classification standard for blood pressure condition


There is no definition of hypotension yet. Generally, if the systolic blood pressure is less than 100mmHg (13.3kPa), it is hypotension.





Contraindications, Precautions, Warnings and Prompt Instruction


(1) Warning:


 Keep the device out of the 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 measurement results is very dangerous;

(2) Precautions:



Do not repair, disassemble or modify the Electronic Blood Pressure Monitor without permission;



Do not collide or drop the host to avoid collision or strong impact on 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	Replace new batteries or use the USB for power supply.
	The polarities of batteries are installed wrongly.	Install the batteries in correct polarities.
No pressurizing	The air plug is loosely installed.	Make sure the air plug is securely inserted in the main unit.
	The air tube is broken or leaked.	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.	Please check if the cuff wearing is correct, and follow Section 4.1 How to use the cuff.
	The air bag of cuff is ruptured.	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 corrosive cleaner, 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

Specifications

Product Name	Electronic Blood Pressure Monitor	
Model	JPD-HA120	
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	$\pm 3\text{mmHg}$ ($\pm 0.4\text{kPa}$)
	Pulse value	$\pm 5\%$ 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 AA dry batteries /DC 5V USB external power supply	
Power Off Mode	Manual power-off/ Auto power-off	
Device weight (without batteries)	About 285g	

Monitor Size	138mm (length) *120mm (width) * 59mm (height)		
Screen Size	60mm (length) *77mm (width)		
Cuff	Upper-arm-type cuff (measured arm circumference 22-36cm or 22-42cm)		
Annexure	Cuff, User Manual, Dry battery, Zipped Carrying 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		
Operating environment	Temperature Condition	5 °C-40 °C	If the device is stored and used in the environment out of the designated temperature & humidity ranges, it cannot operate normally.
	Humidity Condition	15%-85 %RH	
	Atmospheric Condition	70kPa-106kPa	

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-106kPa, without corrosive gas and with good ventilation.

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

Tel: +86-755-26696279

Fax: +86-755-26852025

E-mail: info@jumper-medical.com

Website: www.jumper-medical.com

Authorized European Representative:



MedPath GmbH

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Germany

JUMPER



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