



WARRANTY REGISTRATION

TERMS & CONDITIONS:

1. We warrant this product to be free of defects in workmanship and materials within 1 YEAR from date of purchase under normal use.
2. During the warranty period, if this product is found to be defective, please return the equipment in its original packaging along with the purchase receipt freight prepaid to the address below. We will then repair or replace defective parts or the whole product as we may choose at no charge to the original owner. After such repair or replacement, the product will be warranted for up to the remainder of the warranty period.
3. This warranty is void if this product has been repaired or serviced by unauthorized person. This warranty does not cover defects caused by misuse, abuse, accident, tampering, lack of reasonable care, fire or any other acts of nature.
4. Except as stated in the above paragraphs, we disclaim all other warranties, implied or expressed, including the warranties of merchantability or fitness for a particular purpose with respect to the use of this product. We shall not be liable for any direct, consequential or incidental damages arising out of the use or inability to use this product.

Warranty does not cover batteries and normal wear and tear.

**To accept the Terms and Conditions
of Warranty, register online at**

<https://inmed.com.ph/warranty.php>

Registration Date:

For service, the unit is to be returned freight prepaid to:

Inmed Corporation

5 Calle Industria, Bagumbayan,
Quezon City 1110, Philippines
Tel: +63.2.85711888

BM-270



AUTOMATIC ARM-TYPE Blood Pressure Monitor



Operation Manual
Manual de Operación
Manuel d'utilisation
Bedienungsanleitung
操作手册
オペレーションマニュアル
사용 설명서

User's Manual

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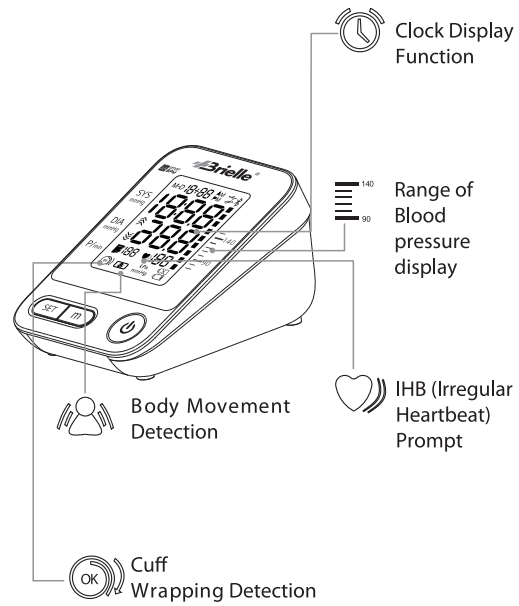
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Product Features

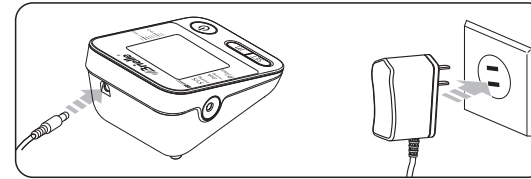


How to Operate

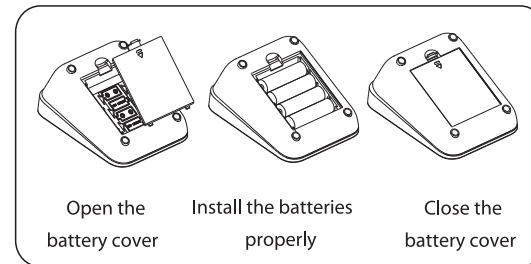
Please follow the steps as shown below

Power-on

Connect the power source



Or install four AA batteries



(Please turn to page 12 for details)

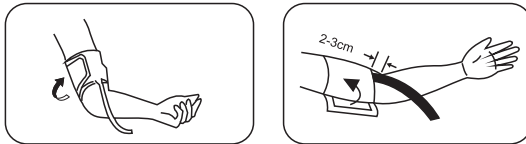
How to Operate

Measurement

1. Proper use of cuff

Wearing the cuff and make the lower edge 2~3cm above the elbow, keep the air tube inside the arm.

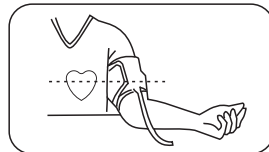
(Please turn to page 16 for details)




2. Correct posture

Sit straightly, keep the center of cuff and heart at the same level.

(Please turn to page 18 for details)




3. Start measuring

Sit still for 5 minutes and then press the power "  " button to measure.

(Please turn to page 20 for details)

How to Operate

Check the records

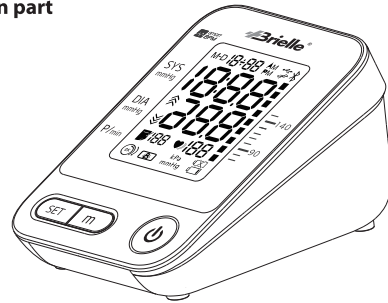
Press the button "  " to check the previous measurements

This monitor can display the average measurement and store up to 74 records.

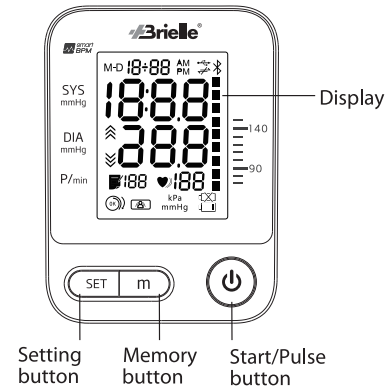
(Please turn to page 24 for details)

Parts and Accessories

1. Main part



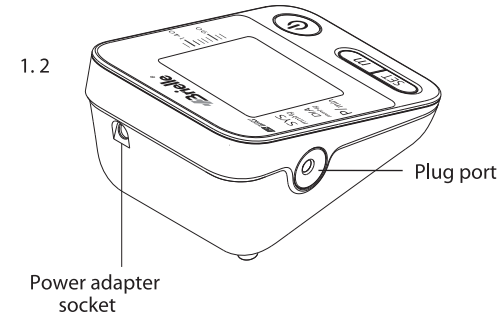
1.1



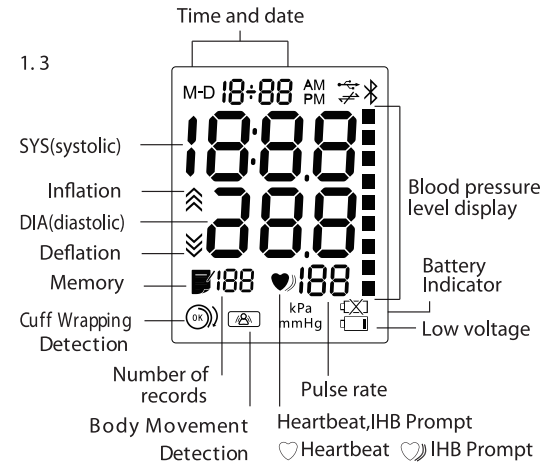
— 05 —

Parts

1.2



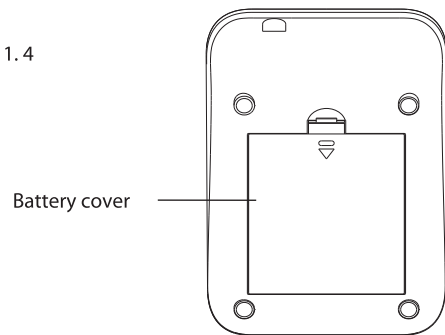
1.3



— 06 —

Parts

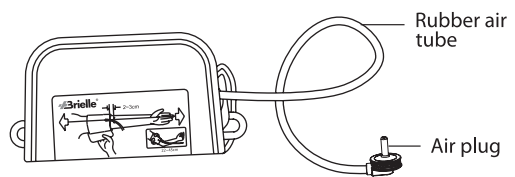
1.4



Battery cover

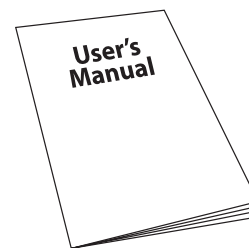
2. Cuff

The suitable upper-arm circumference of the cuff is 22cm~45cm

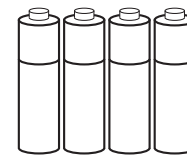


Parts

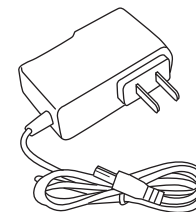
3. Accessories



User's Manual



AA Batteries













Power Adaptor



Storage Bag

Caution

Pay attention with the symbols shown here to prevent harm or damage to the user.









Symbol	Description
	Attention! It might cause damage
	Prohibited
	Obligatory
	Safety and environmental protection use period for 10 years
	Type BF application part
	Class II device
	Consult the manual
	Keep Upright
	Fragile
	Keep Dry

Scope of Application and Important Reminders

1. Scope application

The monitor is used to measure the blood pressure of an adult older than 12 years old. (not suitable for new born baby)

2. Important Reminders

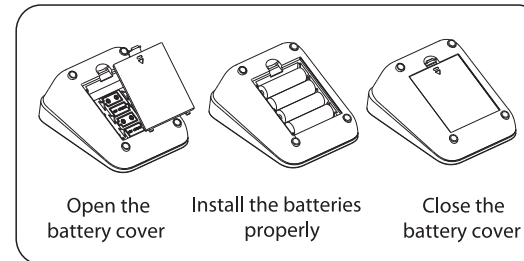
-  Caution: Pay attention to the following points when measuring or it may cause incorrect results.
-  Sit still for 5 minutes before use to ensure correct measurement.
-  Do not use while standing, walking or having body pressed.
-  Do not use after smoking, drinking wine or coffee (black tea).
-  Do not use after sport or bath.
-  Do not speak or move while measuring.
-  Do not move, shake arm or bend fingers while measuring.
-  Do not take the measurement at extreme temperature condition environment.



Scope of Application and Important Reminders

- ⊘ Do not take the measurement in a moving vehicle.
- ⊘ Do not measure continuously. (2~3 minutes or more should be spared between two measurements).
- ⊘ Do not measure within 1 hour after meal.
- ⊘ Do not use mobile phone near the monitor.
- ⚠ Please reinstall the batteries and start again if cannot measure.
- ⚠ For patient with arrhythmia, measuring results may not be accurate.
- ⊘ Do not keep the cuff in an aerated state for a long time.
- ⚠ Note: Do not diagnose with the measurement taken. Please follow doctor's instruction.
Statement: If the monitor has not been stored in the required temperature and humidity range, it may not be conformance to the specification.

Battery installation




- ▶ Open the battery cover and install four AA batteries properly. Then close the cover with a click sound.



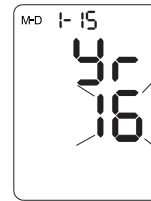
- ▶ The "  " icon appearing means the battery is low.
- ▶ The "  " icon appearing means the battery is running out. Please replace all the batteries.
- ▶ Please take out the batteries if the monitor will not be used for a long time (over three months).
- ⚠ Note: 6V/600mA DC external power can be connected to the monitor. (Please use the power adapter supplied by us.)
- ▶ Please take out the batteries if use the DC external power for a long time.

Time and date setting

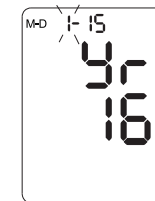
The monitor will store the measuring results automatically by the management system. It is necessary to reset time and date after installing new batteries or connecting to DC power. Please operate as following steps. (For example: setting the date as 2016-1-15 and time as 08:28)

1. Year setting: Press the "  " button for more than 3 seconds till the number starts flashing.
2. The year will increase once press the "  " button.
3. Press the "  " button to switch to the month setting.
4. Using the same way for other settings.

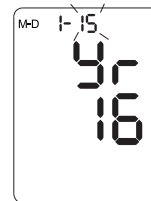
Time and date setting



Year character blink



Month character blink



Date character



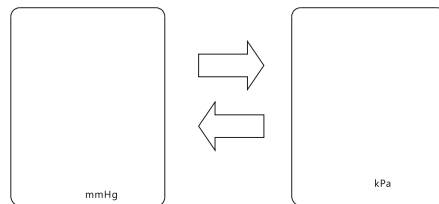
Hour character blink



Minute character blink

mmHg/kPa setting

After finishing the Time and date setting, pressing the "SET" button to enter the mmHg/kPa unit setting. Press the "m" button to switch between these two units. Finish by pressing the "SET" button.



After unit setting, press the "⏻" button to shut down.

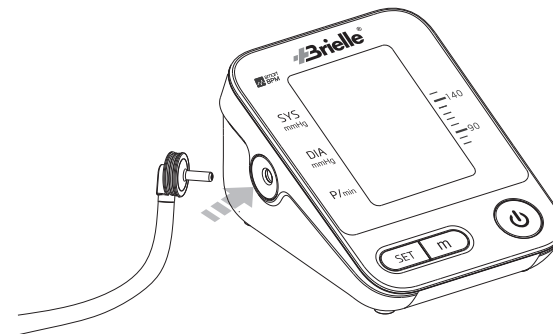
Proper Use of Cuff

Tip!

Both arms can be measured.

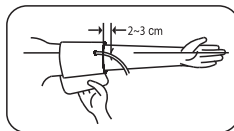
Cuff Installation

Connect the air connector of the cuff to the socket which is found on the left side of the monitor.

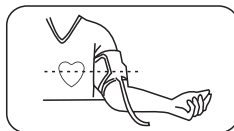


Proper Use of Cuff

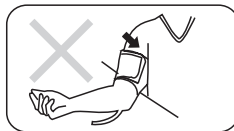
- ▶ Put the cuff around the upper arm properly.
(as shown in the picture) Keep the lower edge of the cuff at the position above 2-3cm to the elbow joint.



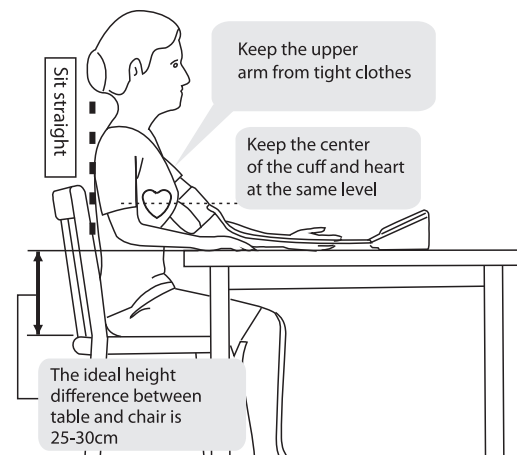
- ▶ Stick the cuff tightly.
⚠ Note: The cuff should be wearing comfortably and must avoid too tight or loose.



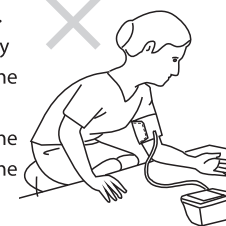
- ▶ Sit straight and flat the arm on the table with palm up. Ensure the air tube is not twisted.



Correct Posture



- ▶ Do not bend down or body bend forward.
- ▶ Do not sit with legs crossed.
- ▶ Do not sit on a sofa. (Belly pressure may increase the blood pressure)
- ▶ Do not put the arm on the low table. (May increase the blood pressure)



Start measuring

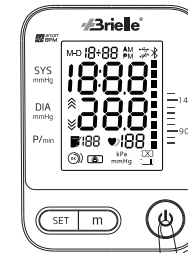
Don't eat, smoke, drink, take bath or any vigorous sport within half an hour before measuring. Measurements shall be taken at the same time every day.

Sit still for 5 minutes before the measurement

1. Measurement

All icons on screen appear for 1 sec after pressing the "⏻" button, then disappear. Then the deflation icon flickers which means the system is in zero testing. After a few seconds, the inflation icon flashes which means the zero testing is done. Then inflation starts.

Start measuring



Full screen display state



The zeroing state

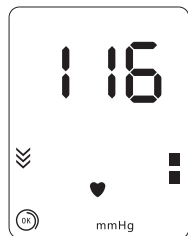


Increase with the pressure
The inflation state

- ▶ The monitor starts measuring automatically after inflation was done, and the measuring icon "♥" starts to flicker. The pressure will release value and starts to decrease gradually.

Start measuring

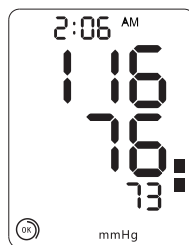
Please maintain the position during the measurement and don't speak or move the body and hand.



The measuring state

2. Measurement finished

After measurement, the monitor will show the SYS, DIA and pulse rate, then deflate the air automatically.



mmHg display



kPa display

Start measuring

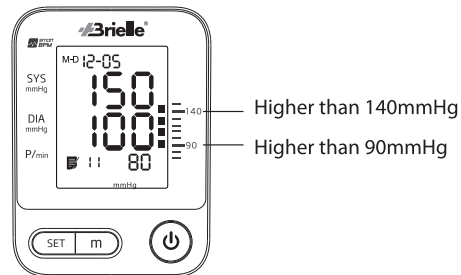
3. Take off the cuff

4. Shut down

Press the "⏻" button to shut down. Or, it will power off automatically in 30 seconds if left unuse.

Blood pressure range indicator

- ▶ If the SYS is higher than 140mmHg or DIA higher than 90mmHg might indicate high blood pressure. Please contact with doctor for advice.
- ▶ Also the Blood pressure range indicator can show the blood pressure intuitively.



Tips!

- ▶ The time interval between two measurements should be at least 2~3 minutes or longer.
- ▶ Estimate the blood pressure condition according to the BP classification table, and consult the doctor.

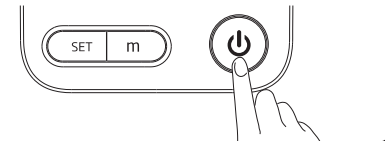
Memory function

Tips!

The monitor will store the measurement data automatically (including time, date, blood pressure and pulse), and the upper limit of records is 74. Press the "m" button to check the records.

Emergency stop during measurement

If the measurement need stoping for uncomfortableness or other reasons, please press the "⏻" button, the measurement will stop immediately and air releases fast. Take off the cuff manually if the "⏻" button is not working.



⚠ Warning: Upper limit pressure of air inflation is 290mmHg/38.7kPa. Don't keep the inflated state for a long time to avoid damage.

Memory function

1. Press the "m" button for the records.
 - A. Press the "m" button to show the average value of the latest 3 times measurement.
 - B. Reprress the "m" button to display the 1st group of memory, the serial number is displayed as "1" to "74". "1" is the latest group and the "74" is the earliest one.



The average value



The 1st group of memory

Tips!

The 74th data may be replaced by the 73rd when the memory capacity is full. The 1st data may be replaced by the new data.

Memory function


- C. Read the recorded data by pressing the "m" button as the sequence: "1", "2" "74"(max). Then return to the 1st.
Holding the "m" button to search the data quickly.
- D. Press the "⏻" button to shut off the monitor.

2. Delete the recorded data

Press both "SET" button and "m" button until the display shown as the following picture, which means the recorded data is cleared.

Press the "⏻" button to turn off the monitor after deleting.



 Note: This operation will delete all the recorded data.

Auxiliary Measuring Function

Cuff Wrapping Detection

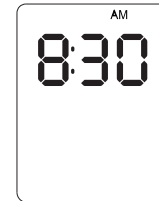
If the cuff is placed properly, it will show the "OK" icon. Otherwise it will show the "⊗" icon, then press the "⏻" button to stop and put properly the cuff and measure again.

Body Movement Detection

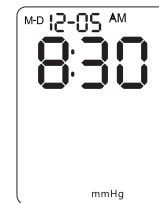
It will show the "👤" icon, if body moves when measuring. Please measure again or it will show inaccurate results.

LCD display

- ▶ Press the "SET" button and it will show the current time, as shown below:



- ▶ Press the "SET" button again and it will show the current date, time and pressure unit, as shown below:



- ▶ Press the "⏻" button to shut down the monitor.

Static Mode

This function is mainly for professional personnel to enter the static mode to test the monitor through standard pressure gauge.

⚠ Warning: Normal users don't need to know this function and also do not operate. The company will not take any responsibility for damage caused by this operation.

System restores

Press the "⏻" button after battery installation, then the screen will show the "🔋" icon, which means the system is in restore testing. Several seconds later, the "🔋" icon disappears and the air pump starts inflating at the same time, which indicates the test ended. Then press the "⏻" button to stop inflating and take out the batteries to enter the next step.

⚠ Note: It must restore the system before entering the static mode, otherwise it may cause inaccurate results.

Static Mode

Entering the static mode

Press the "m" button and hold, meanwhile install the batteries. Hold on for about 3 seconds then release the "m" button. Then screen will show the pressure value "0", the date and time. Now the system has restored and entered the static mode. Now can take the static test.

Tips!

▶ After entering the static mode, if the screen still doesn't show "0", please operate again as the System restore. Please contact with the local distributor if it still does not work.

▶ The monitor will automatically power off if there is no operation in 4 minutes.



The static mode

Common Questions of Blood Pressure Measurement

1. What is blood pressure?

Blood pressure is the force exerted by blood against the walls of the arteries. Systolic pressure occurs when the heart contracts. Diastolic pressure occurs when the heart expands. Blood pressure is measured in millimetres of mercury (mmHg). One's natural blood pressure is represented by the fundamental pressure, which is measured first thing in the morning while one is still at rest and before eating.

2. What is Hypertension and how is it controlled?

Hypertension, is an abnormally high arterial blood pressure, if left unattended it can lead to health problems which includes stroke and heart attack. Hypertension can be controlled by altering lifestyle, avoiding stress, and with medication under a doctor's supervision.

To prevent Hypertension or keep it under control: Do not smoke, exercise regularly, reduce salt and fat intake, have regular physical checkups and maintain proper weight.

Common Questions of Blood Pressure Measurement

3. Why measure your Blood Pressure at home?

Blood pressure measured at a clinic or doctor's office may cause apprehension and can produce an elevated reading, 25~30 mmHg higher than that measured at home. Home measurement reduces the effects of outside influences on blood pressure readings, supplements the doctor's readings and provides a more accurate, complete blood pressure history.

4. WHO Blood Pressure Classification?

Standards to assess high blood pressure, without regard to age, have been established by the world Health Organization (WHO), as shown below:

Range	Systolic pressure kPa/mmHg	Diastolic pressure kPa/mmHg	Counter- measures
Hypotension	≤13.3/100	≤8.0/60	Consult dr.
Ortho-arteriotony	13.3/100~18.7/140	8.0/60~12.0/90	Self check
Mild hypertension	18.7/140~21.3/160	12.0/90~13.3/100	Consult dr.
Medium hypertension	21.3/160~24.0/180	13.3/100~14.7/110	Consult dr.
Severe hypertension	≥24.0/180	≥14.7/110	Danger! Go to hospital as soon as possible

Common Questions of Blood Pressure Measurement

5. Blood pressure variations?

An individual's blood pressure varies greatly on a daily and seasonal basis. It may vary by 30 to 50 mmHg due to various conditions during the day. In hypertensive individuals variations are even more pronounced. Normally, the blood pressure rises while at work or play and falls to its lowest levels during sleep. So do not be overly concerned by the results of one measurement.

Take measurements at the same time every day using the procedure described in this manual to get to know your normal blood pressure. Regular readings give a more comprehensive blood pressure history. Be sure to note date and time when recording your blood pressure. Consult doctor to interpret the blood pressure data.

Common Questions of Blood Pressure Measurement

6. When is the best time to measure blood pressure?

- ▶ After urination, before breakfast in the morning.
- ▶ Before sleeping at night.
- ▶ Before taking medicine.
- ▶ Please keep a stable body state and mind every time measuring. We suggest taking measurements at a same time every day.


Common Fault and Trouble Shooting

Common fault	Solutions
It doesn't work after pressing the "⊕" button with batteries installation	Check if the batteries are installed correctly
	Replace new batteries
Multiple occurrences of measuring failure, or measured value is low (or high)	Check the connection and winding of cuff
	Check if the cuff winded too tight or too loose. Take off your clothes if rolled too tight
	Please ensure a quiet, relaxed body state. Deep breathing to relax yourself before measurement
The monitor is in good condition, but each measurement results are different	Please read the "blood pressure variations" carefully
The value is different from that measured at a clinic or doctor's office	Write down the value every day, and consult a doctor
Pump works, but the pressure doesn't rise	Check whether the cuff has connected well

Common Fault and Trouble Shooting

The table below shows the possible fault displaying icon, possible reason, and solutions.

Wrong indication	Fault cause	Solution
Err 4	Unable to measure pressure	Fasten cuff correctly before measurement
Err 5	Pressurizing error	Check if there is air leakage from the cuff
Err 6	Pressurizing error caused by arm or body motion	Keep arm and body still and measure again
Err 7	Cuff is too loose or fall off	Fasten cuff tightly
Err 8	Pressure exceeds the maximum value (290mmHg)	Measure again please
Showing low voltage icon "⊖"	Battery is low	Replace new batteries
Showing the "⊗" icon	Battery is running out	Replace new batteries

 Warning: If the situations cannot be solved or unexpected problem happens, please consult the local distributor.

Maintenance

Please observe the following items to protect the device and ensure the accuracy of measurement.

- ❗ Please store the monitor and accessories properly after use.
- ⊘ Do not place the monitor and accessories in high temperature, moisture, dust, or exposure to sunshine.
- ❗ The cuff contains an airbag inside, please handle with care, do not fold, pull or twist.
- ⊘ Do not disassemble or repair the device without authorization.
- ⊘ Do not replace the parts without authorization. Please clean the monitor with soft dry cloth. If
- ❗ It's necessary to use wiped soft cloth with water or neutral detergent before cleaning by soft dry cloth.
Using absorbent cotton to wipe gently with rubbing alcohol, disinfection of the machine when it necessary. Do not use detergent to clean.
- ⊘ Do not let water seep into the device.

Tips!

We advice to calibrate the monitor according to local laws and regulations.

Features and Technical Parameters

1. Features

- ▶ Intelligent pressurized
- ▶ Large-scale LCD
- ▶ Cuff Wrapping Detection
- ▶ IHB(Irregular heartbeat) indicator
- ▶ Body Movement Detection
- ▶ 74 groups of memory
- ▶ Average value display of three times measurement
- ▶ Time and date display

2. Technical parameters

- ▶ Displaying: LCD digital display
- ▶ Measuring method: oscillation mensuration
- ▶ Measuring range:
Systolic pressure: 60-230mmHg (8.0-30.7kPa)
Diastolic pressure: 40-130mmHg (5.3-17.3kPa)
Pulse rate: 40-200 time/min
- ▶ Precision:
Pressure: within $\pm 3\text{mmHg}(\pm 0.4\text{kPa})$
Pulse rate: within 5% of reading value
Working system: Intermittent operation
- ▶ Electric classification: Class II, type BF application part

Features and Technical Parameters

- ▶ Pressure sensor: Semiconductor pressure sensor
- ▶ Pressurization: Automatic pressurize
- ▶ Depressurization: Automatic air releasing
- ▶ Power supply: 4 AA batteries or 6V/ 600mA DC power
- ▶ Maximum battery life: 300 times
- ▶ Suitable upper-arm circumference: 22-45cm
- ▶ Dimension: Approximately 127 X 93 X 74 (mm)
- ▶ Operation and storage conditions:
Working temperature: +5°C~+40°C
Relative humidity: 15%~80%
Working atmosphere pressure: 80kPa~105kPa
Transport and storage temperature: -20°C~ +55°C
Transport and storage relative humidity:15%~80%, no condensation
Transportation and storage atmosphere pressure: 80kPa ~ 105kPa
Operation environment:
Avoid electromagnetic interference, violent shock and noise environment.
Radio frequency interference

Features and Technical Parameters

- ▶ There is a potential risk of radio frequency interference between the device and other devices. If there is, please find out the problems and take the following measures:
(1) Turn off the device, and turn on again,
(2) Change the direction of the device,
(3) Keep the product away from the interferential devices.

Health Diary

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