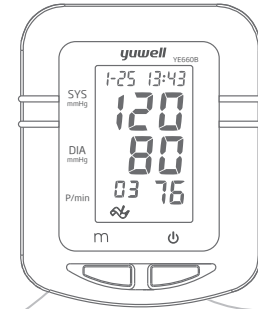


yuwell




YE660B

Electronic Blood Pressure Monitor

User's manual

(Suitable upper-arm circumference of the cuff: 22~32cm)

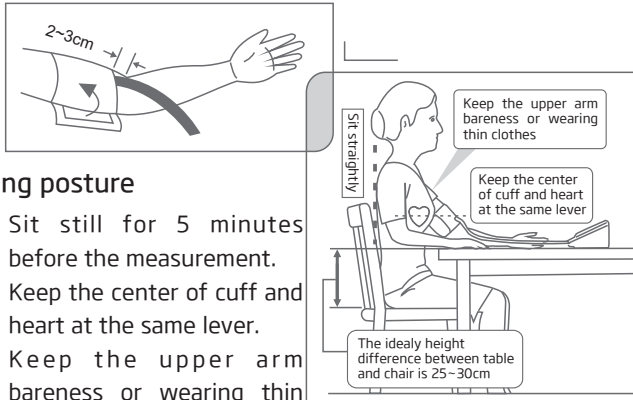
 JIANGSU YUYUE MEDICAL EQUIPMENT & SUPPLY CO.,LTD.
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212300 CHINA
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730167-2C 

Please read the user's manual closely!

Wearing method

- ▶ Wind the cuff around the upper arm. (As shown in the picture)
- ▶ Keep the lower edge of the cuff at the position above 2-3cm to the elbow joint and keep the air inlet which insert to the cuff at the inside of arm.



Sitting posture











- ▶ Sit still for 5 minutes before the measurement.
- ▶ Keep the center of cuff and heart at the same lever.
- ▶ Keep the upper arm bareness or wearing thin clothes.
- ▶ The ideally height difference between table and chair is 25~30cm.

Measurement

- ▶ Press the switch button, then start measuring.
- ▶ Maintain the position during the measurement.
- ▶ Relax while in the measuring process. It is unbecoming to measure after meal, sporting, or in high mood.

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Symbols

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









Range of application

The monitor is used for measuring blood pressure of human body(adult older than 12,not suitable for new born baby)!

This monitor is suitable for daily healthcare. People can measure blood pressure anytime and anywhere.

Contraindication : None

Attention items

-  Caution: Pay attention to the following points when measuring or it may cause the incorrect results.
-  Sit still for 5 minutes before measuring to ensure quiet and stable mode.
-  Do not take the measurement while standing, walking or having body pressed.
-  Do not take the measurement after smoking, drinking wine or coffee (black tea).
-  Do not take the measurement 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 or the varied severely environment.

Features and technical parameters

Features

- ▶ Large-scale LCD with date and time display.
- ▶ Automatical stored, 74 groups of memory.
- ▶ Average value display of 3 times measurement.
- ▶ Power off in 2 minutes without operation.

Technical parameters

Displaying: LCD digital display

Measuring method: Oscillating mensuration

Measuring range:

Pressure measurement range : 0~300mmHg


Pulse: 40~200 times/min

Precision:

Pressure: within ± 3 mmHg

Pulse: within $\pm 5\%$ of reading value

Working system: Continuous operation

Electric classification: Class II, type BF application part 

Pressure sensor: Semiconductor pressure sensor

Pressurization: Automatic pressurize

Depressurization: Automatic air releasing

Power: 4 AA batteries or 5V/1A DC power

Weight: 252g

Suitable upper-arm circumference: 22~32cm

Dimension: Approximately L120.5mm × W100mm × H69.3mm

Features and technical parameters

Operation and storage conditions

Working temperature: +5°C~+40°C

Relative humidity: 15%~80%RH

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

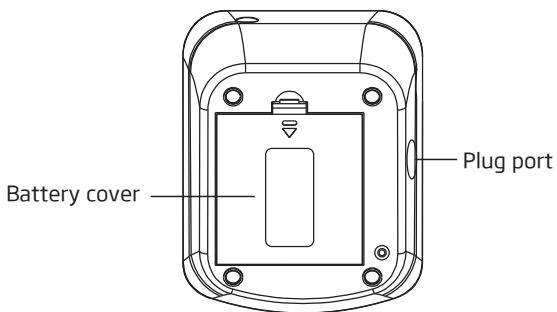
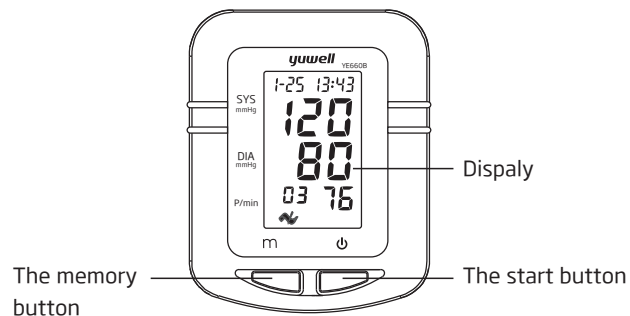
There is the potential risk of radio frequency interference between the device and other devices. If there is, please find out the problems and take the following measures:

- (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.

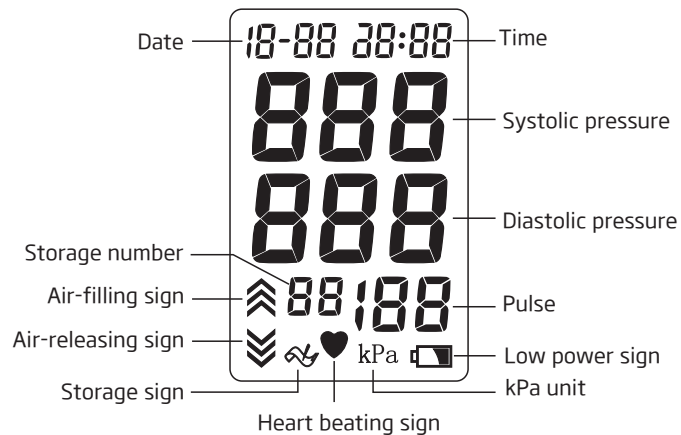
Attachments

User's manual, Warranty card, 4 AA batteries

Main part

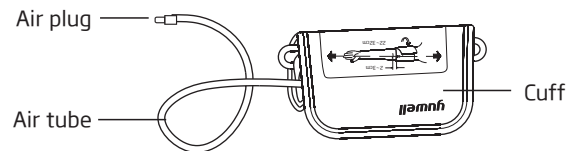


Display




Cuff

Suitable upper-arm circumference: 22cm~32cm



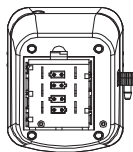
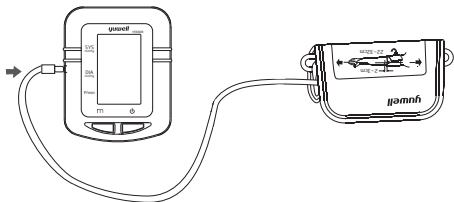
Battery installation

- ▶ Open the battery cover of blood pressure monitor and install four AA batteries properly.
- ▶ If it appears "  ", please remove old batteries and replace with new batteries.
- ▶ Please take out the batteries if the monitor is not used for a long term(over three months). Properly dispose the waste batteries to avoid the pollution of the environment.

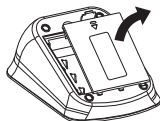
⚠ NOTE: 5V/1A DC external power can be connected to the monitor.

Cuff connection

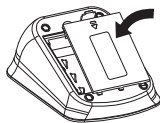
Plug the air plug of the cuff into the left side port of the monitor, as the following picture.



Install the batteries properly



Open the battery cover

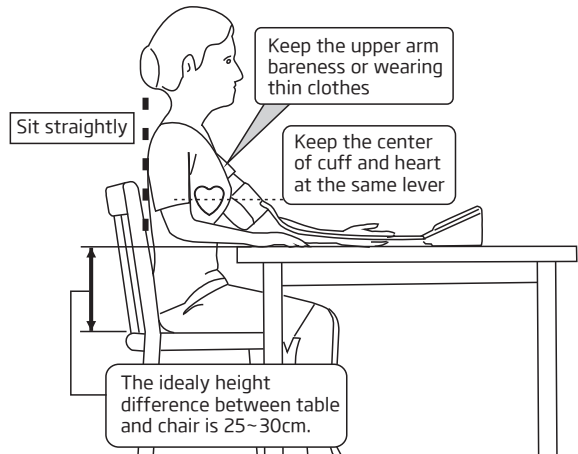


Close the battery cover



Low power sign

Correct measuring postures



Wrong postures

- ▶ Bend down or body bend forward.
- ▶ Sit with legs crossed.
- ▶ Sit on a sofa.(Belly pressure may increase the blood pressure)
- ▶ Put the arm on low table.(May increase the blood pressure)



The use of cuff

Tips

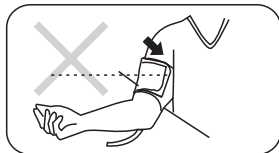
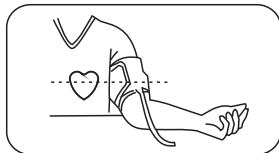
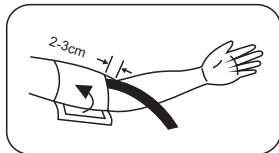
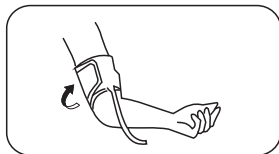
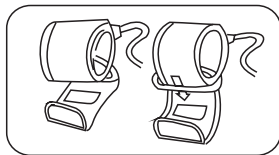
Both arms can be measured.

Place the cuff on the table, the sticking side face down, then make the cuff go through the metal ring.

- ▶ Encircle the cuff on upper-arm with the air plug pointed to the forearm. Keep the lower edge of the cuff at the position above 2-3cm to the elbow joint and keep the air inlet which insert to the cuff at the inside of arm.

- ▶ Strain the cuff and stick.
 ⚠ Cuff should be encircled the arm comfortably without space between the cuff and arm, avoiding too tightness or looseness.

- ▶ Flat the arm on the table with palm up and sit straightly. Keep the center of cuff and heart at the same lever. Make sure there's no bended of the air tube.

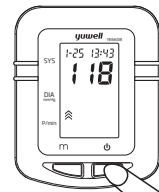


Quick instructions for measuring

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

- ▶ Please confirm the cuff, air plug and air tube are firmly connected, and make sure air plug is plugged into the left side port of the monitor.
- ▶ Keep the upper arm bareness or wearing thin clothes.
- ▶ Sit straightly with feet flatted on the floor and encircle the cuff around the arm. Flat the arm on the table with palm up. Keep the center of cuff and heart at the same lever. Sit still for 5 minutes before the measurement.

- ▶ The screen shows " ≡ " when pressed the [⏻] button, which means the system is in zeroing test. It will show " ≡ " several seconds later and the air inflation starts. (When using external power, the screen menu will be all light, then press the [⏻] button to measure).



Press the [⏻] button to start measuring

- ▶ The monitor starts measuring automatically after inflation finished, and the measuring sign " ♥ " starts to flicker, pressure release value starts to decrease gradually. Please maintain



The inflated state

Measurement method

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

- ▶ The measuring sign " ♥ " stops flickering when the measurement is finished, and the monitor will show the systolic blood pressure, diastolic blood pressure, and heart rate, and also quickly release the air in cuff automatically.

If once more measuring is needed, please press the [⏻] button twice. The monitor will power off automatically in 3 minutes with no operation



Measuring state

Tips

If continuous measurement is needed, the interval should be more than 2~3 minutes between two measurements.

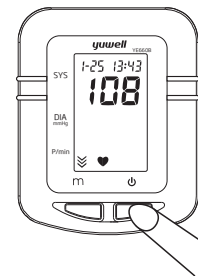
Measurement method

NOTICE

This product can automatically record the data of each measurement for at most 74 times (including time, date, blood pressure and pulse). Press the [M] button to read.

Emergency stop during measurement

If the measurement need stopping 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.



Press the [⏻] button to stopped measurement immediately

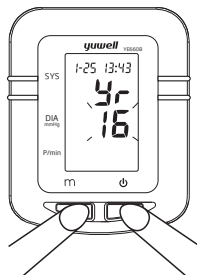
⚠ Warning: Upper limit pressure of air inflation is 300mmHg. Don't keep the inflated state for a long time to protect the arm.

Time and date setting

The BP is different in different time period in the same day. The BP monitor can record the values automatically for convenient monitoring and management.

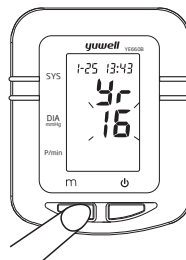
Turn on the monitor after installing new batteries, the time/date displays the last setting data, for example: 1-25 13:43, that is month-date-time, the year is elided. Please operate as following steps to reset the time and date. (For example: input date is 2016-1-25, time is 13:43).

1. Turn on the monitor, press the [**m**] and [**⏻**] for at least 3 seconds at the same time to set the year, then the last two numbers of the year begin to flicker (the first two numbers are elided), for example 2016 displays as 16.

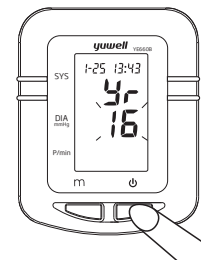


Press the [**m**] and [**⏻**] for at least 3 seconds at the same time

2. Press the button of [**m**] once to set the year. Every time press to increase one year.
3. Press the button of [**⏻**] after the year was set to switch to set the month, date, hour and minute.



Long press the [**m**] button to enter the quick setting mode



Press the [**⏻**] button to switch

Unit setting

After finishing the time and date setting, press [**⏻**] button to enter the unit setting. And then press the [**m**] button to switch units. When the screen displays [kPa], press [**m**] to set the unit to kPa. Otherwise, the unit is mmHg. Press [**⏻**] to finish setting.

After finishing unit setting, press the [**⏻**] button to shut down.

Memory function

The BP monitor can record the data as BP values, pulses, time and data automatically for convenient monitoring and management.

1. Press the [**m**] button to display the latest recorded values.
- A. Press the [**m**] button to display the average value of the latest 3 times measurement.



Press the [**m**] button



Show the average value



The 3rd group of memory

- B. Repress the 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.

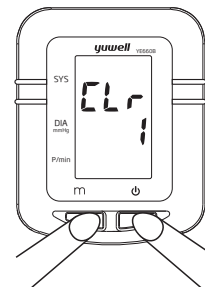
Tip

If the memory capacity is full, the 74th data may be replaced by the 73rd.

- C. Read the recorded data by pressing the [**m**] button as the sequence: "1", "2", "74"(max). Then return to the 1st.
- D. Keep pressing the [**m**] button to search the recorded data quickly.

2. Delete the recorded data.

Long press both the [**m**] button and [**⏻**] button until the "Clr1" sign to delete the recorded data. Shown as the following picture:



⚠ NOTE: This operation may delete all the recorded data.






Static mode


The function is designed for professionals to proof test with standard pressure meter .

⚠ NOTE: Ordinary users need not know this function, also do not use this function. Our company is not responsible for any consequences caused by inappropriate operation.




Other functions

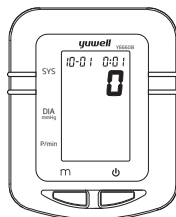
1. Reset the system

Press the [] button after installing the batteries, then the screen shows the "  " sign which means system is in reset testing mode. Several seconds later the screen shows the "  " sign, the pump start inflating as the same time. The disappearance of the "  " sign means the operation completed. Then press the [] button to stop inflating and take out the batteries to enter the next step.


 **NOTE:** It should be reset the system before entering the static mode, or may cause inaccurate proof test.

2. Enter the static mode

Press an hold the [] button, install the batteries at the same time, wait for about 3 seconds, release the [] button when heard a click, then the screen shows "  ", date and time, this moment the system has been reseted and entered to the static mode. Proof test can be started.



Tip

(1)After entering the static mode, if the screen still doesn't show the "  " sign, please reset the system again. Please contact the distributor if the problem can't be solved.

(2)After entering the static mode, the monitor will automatic power-off in 4 minutes without any operation.

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, an abnormally high arterial blood pressure, if left unattended can cause many health problems including 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, maintain proper weight.

3. Why measure 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.

Common questions of blood pressure measurement

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
Ortho-arteriotony	12.0~18.5kPa 90~139mmHg	8.0~11.9kPa 60~89mmHg	Self check
Mild hypertension	18.7~21.2kPa 140~159mmHg	12.0~13.2kPa 90~99mmHg	Consult dr.
Medium hypertension	21.3~23.9kPa 160~179mmHg	13.3~14.5kPa 100~109mmHg	Consult dr.
Severe hypertension	≥24.0kPa ≥180mmHg	≥14.7kPa ≥110mmHg	Danger! Go to hospital as soon as possible

 **Note:** There is no definition about hypopiesia, and generally SYS (systolic pressure) less than 90mmHg or DIA (diastolic pressure) less than 60mmHg is called hypotension.

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.

Common questions of blood pressure 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.

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 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 the each measuring result 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
Err4	Unable to measure pressure	Fasten cuff correctly before measurement
Err5	Pressurizing error	Check if there is air leakage from the cuff
Err6	Pressurizing error caused by arm or body motion	Keep arm and body still and measure again
Err7	Cuff is too loose or fall off	Fasten cuff tightly
Err8	Pressure exceeds the maximum value (300mmHg)	Measure again please
Showing low voltage icon "  "	Battery is low	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 care in applications, do not fold, pull or twist it.
- ⊘ 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, please 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.