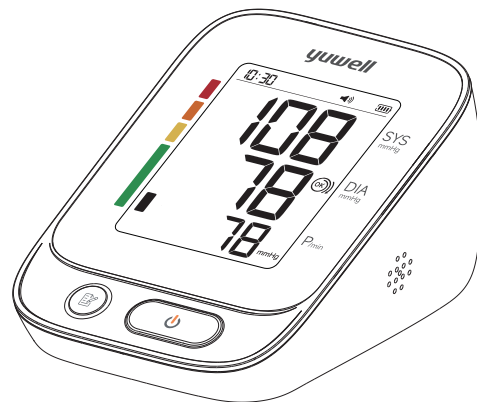


yuwell



YE660E

Electronic Blood Pressure Monitor

User's Manual

EU REP Metrax GmbH
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REF YE660EWH1-WENN

REF YE660EWH1-WENB

REF YE660EWH2-WENN

REF YE660EWH2-WENB

REF YE660EBL1-WENN

REF YE660EBL1-WENB

REF YE660EBL2-WENN

REF YE660EBL2-WENB

Please read the user's manual closely before using!

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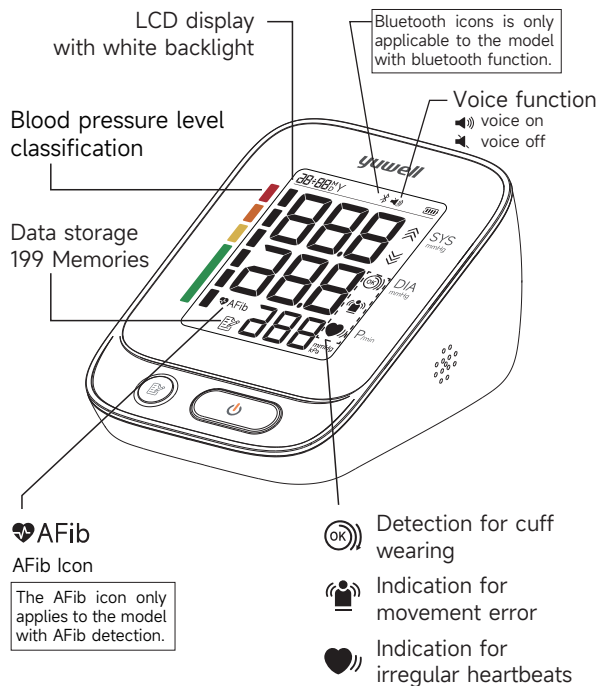
Eight **REF** for option, please consult the table below for information about the different configurations for this monitor.

Product name	Electronic Blood Pressure Monitor
#	YE660E
REF	Configuration
YE660EWH1-WENN	White Panel+WHO+Backlight+Voice
YE660EBL1-WENN	Blue Panel+WHO+Backlight+Voice
YE660EWH1-WENB	White Panel+WHO+Backlight+Voice+Bluetooth
YE660EBL1-WENB	Blue Panel+WHO+Backlight+Voice+Bluetooth
YE660EWH2-WENN	White Panel+WHO+AFib+Backlight+Voice
YE660EBL2-WENN	Blue Panel+WHO+AFib+Backlight+Voice
YE660EWH2-WENB	White Panel+WHO+AFib+Backlight+Voice+Bluetooth
YE660EBL2-WENB	Blue Panel+WHO+AFib+Backlight+Voice+Bluetooth

In the table:

- " WHO " is abbreviation for " World Health Organization " , indicating that it has the function of blood pressure level classification.
- " AFib " is abbreviation for " Atrial Fibrillation " , indicating that it has the function of evaluate the possibility of AFib.

Product features



Tips!

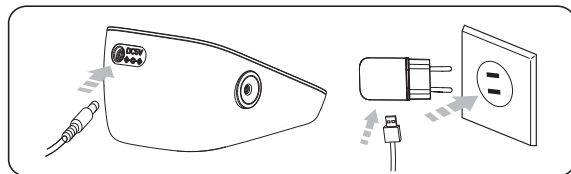
- The display interface is introduced with the full functionality, including optional backlight, voice, Bluetooth, WHO and AFib features. Please refer to the actual monitor you purchased.
- The drawings printed in the User's Manual are only for illustration. Please refer to the actual object for details.

Operation guide

This device uses the oscillometric method of blood pressure measurement. Please follow the steps as shown below.

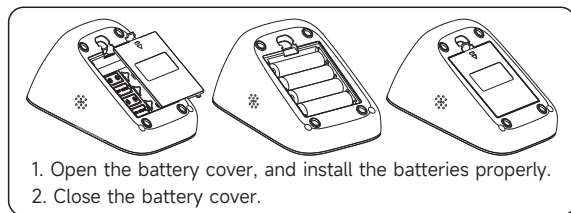
Power-on

Connect the power source as shown below.



- Except the power adapter supplied by the manufacturer as spare parts, using any unspecified accessories or power adapter may cause increasing emission or decreasing immunity of the instrument.
- This device is not rechargeable. Please connect the power source or install four AA batteries.

Or install four AA batteries

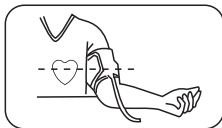
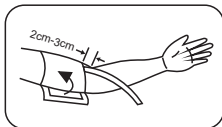
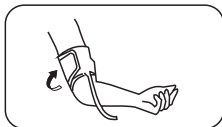


(Please turn to page 17 for details)

Measurement

1. Using method of cuff

Wearing the cuff and make the lower edge 2cm~3cm above the elbow, keep the air tube inside of the arm. (Please turn to page 20 for details.)



2. Measuring posture

Sit straightly, keep the center of cuff and heart at the same level. (Please turn to page 22 for details.)

3. Start measuring

Sit still for 5 minutes and then press the "  " button to measure. (Please turn to page 23 for details.)

Check the records

Press the "  " button to check the measuring records.

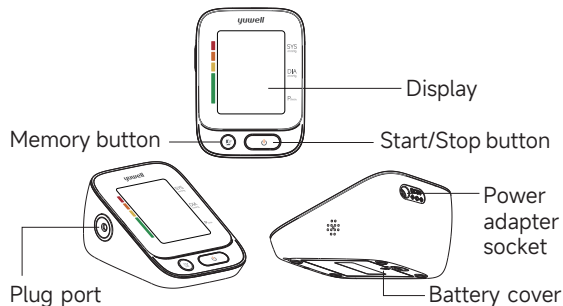
This monitor can display the average of last three measurements and store 199 records. (Please turn to page 26 for details.)

1. Package contents

Main part x1, Cuff x1, User's manual x1, Storage bag x1, Warranty card x1, AA batteries x4, AC adapter(optional) x1, USB cable(optional) x1

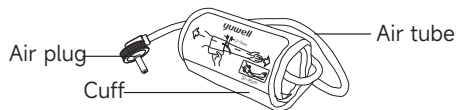
Note: The AC adapter and USB cable are optional. Please refer to the packing contents on the box for detailed information.

2. Main part



3. Cuff

There are 8 types of cuff provided by yuwell. The range of arm circumference is printed on each cuff. Please subject to the received type.



Product structure and parts

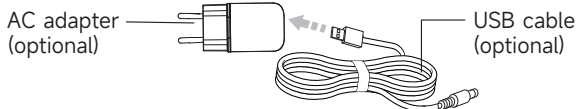
Cuff type	Model	The range of arm circumference
YE-61 series	YE-61SC	17cm-22cm
	YE-61MC	22cm-32cm
	YE-61LC	22cm-45cm
	YE-61XLC	45cm-52cm
YE-62 series	YE-62MC	22cm-32cm
	YE-62LC	22cm-45cm
YE-63 series	YE-63MC	22cm-32cm
	YE-63LC	22cm-45cm

Please select a suitable size cuff according to the arm circumference. Out of the given value can lead to inaccurate results of measurements.

⚠ Warning:

Please use cuff made by Yuwell, otherwise the measurement results will be inaccurate.

4. AC adapter and USB cable



AC adapter:

Input: 100V-240V~ 50Hz/60Hz 0.35A MAX

Output: 5V===1000mA

MFR: WEIHAI HITAI ELECTRONICS Co.,LTD.

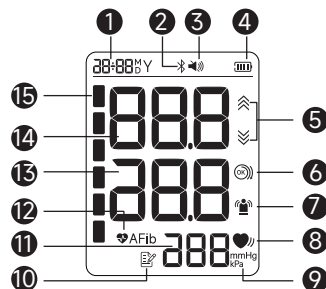
EU Model: HT-C38B-0510EW

US Model: HT-C38B-0510WW

UK Model: HT-C38B-0510UW

Product structure and parts

5. Display



- ① Time and date display
- ② Bluetooth icon (optional)
- ③ Voice icon (optional)
- ④ Battery power icon
- ⑤ Inflation & Deflation icon
- ⑥ Cuff wrapping icon
- ⑦ Movement error icon
- ⑧ Irregular heartbeat icon
- ⑨ Unit display
- ⑩ Memory icon
- ⑪ Pulse display / Memory number
- ⑫ AFib icon (optional)
- ⑬ DIA(diastolic)
- ⑭ SYS(systolic)
- ⑮ Blood pressure level classification indicator

6. Display symbols

	If the cuff was wrapped too loosely, it may cause unreliable values. When the  is displayed, the cuff is tight enough. When the  is displayed, apply the cuff again more tightly.
	Appears when your body moves during a measurement. Remove the arm cuff, wait 2 minutes-3 minutes and try again.
	Appears when an irregular rhythm is detected during a measurement. If it continues to appear, consulting with your physician is recommended.
	Heartbeat icon flashes while taking a measurement.
	Appears if a possibility of AFib was detected during a measurement. This is not a diagnosis, it is only a potential finding for AFib. You should contact your physician to discuss the findings.

Tips!

The state in which “ AFib/  ” icon is displayed can influence your blood pressure measurements and make it difficult to get an accurate reading. If this occurs, it is recommended that you consult with your physician.

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

	Caution		Type BF applied part
	Refer to instruction manual/booklet		Plastic (Low-density Polyethylene) packaging recycle
	Paper packaging recycle		Class II equipment
	Medical device		Consult instructions for use
	This way up		Fragile, handle with care
	Keep dry		Stacking limit by number
	Direct current		Model number
DC	Direct current		Unique device identifier
	Alternating current		Catalogue number
	Manufacturer / Manufacturer and date of manufacture		Batch code
	Date of manufacture		Serial number
	Authorized representative in the European Community/European Union		CE marking and notify body number
IP21	Indicates the degree of protection against harmful ingress of water and particulate matter as detailed in IEC 60529.		
	MR unsafe, identifying an item which poses unacceptable risks to the patient, medical staff or other persons within the MR (magnetic resonance) environment		
	Waste electrical and electronic equipment (WEEE), indicating that separate collection for waste electric and electronic equipment (WEEE) is required.		

Statement: The device is a medical device.

1. Intended purpose

- **Intended medical indication:**

This device is used by healthy individuals, patients with hypertension, and health-conscious individuals to measure blood pressure and pulse rate.

- **Intended patient population:**

YE-61 series cuffs: Suitable for patients above 3 years old without pregnancy or pre-eclampsia.

YE-62 and YE-63 series cuffs: Suitable for patients above 12 years old without pregnancy or pre-eclampsia.

- **Intended part of the body applied:** Upper arm.

- **Intended user profile:**

Physicians, clinical nurses and lay persons who can understand this instruction manual.

- **Intended use environment:**

Intended for non-sterile, reusable use in household or medical facilities. Not for use in ambulances, helicopters, or other moving vehicles.

- **Type of use:** This device is intended to be multiple patient multiple use.

- **Limitation:**

YE-61 series cuffs: Patient's arm circumference must be 17 cm to 52 cm.

YE-62 and YE-63 series cuffs: Patient's arm circumference must be 22 cm to 45 cm.

- **Contraindications:**

Do not measure blood pressure on the arm that is injured or under medical treatment.

Do not apply the cuff on the arm while on an intravenous drip or blood transfusion.

- **Operating principle:**

This device employs the oscillometric method, detecting pulse waves in the cuff during slow deflation to measure blood pressure. Systolic and diastolic pressures are calculated through analysis of the envelope formed by the pulse waveforms.

2. Clinical benefit

Patient's blood pressure and pulse rate can be measured non-invasively and simply.

3. Side effects

- Taking blood pressure measurements more often than necessary may cause bruising due to blood flow interference.
- Stop using this device and consult with your physician if you experience skin irritation or discomfort.

4. Attention items

Pay attention to the following points when measuring, otherwise it may cause damage or incorrect results.

- Sit still for 5 minutes before measuring to ensure quiet and stable mode.
- Do not take the measurement within 1 hour of eating, smoking, drinking wine or coffee (black tea).

Important notes

- Any blood pressure reading can be affected by the measurement site, the position of the patient (standing, sitting, lying down), exercise, or the patient's physiologic condition.
- Do not take the measurement after sports or bath.
- Do not speak, move, shake arm or bend fingers while measuring.
- Do not take the measurement at extreme temperature condition or the varied severely environment.
- The incorrect measurements of the equipment may be caused by external interference, such as accelerating during transportation or transportation.
- Do not take the measurement in a moving vehicle.
- Do not measure continuously. (At least 2 minutes~3 minutes or more should be spared between two measurements.)
- Please reinstall the batteries and start again if cannot measure.
- Patient motion, trembling or shivering may affect the blood pressure readings. Do not measure in such conditions.
- Do not keep the cuff in the aerated state for a long time to avoid the injury to the patient.
- The patient is an intended operator.
- **Warning:** The AC adapter cable and rubber air tube may cause accidental strangulation in infants.
- **Warning:** Do not swallow small parts that may cause choking hazard.

Important notes

- Do not use this device in areas containing high frequency (HF) surgical equipment, magnetic resonance imaging (MRI) equipment, computerized tomography (CT) scanners. This may result in incorrect operation of the device and/or cause an inaccurate blood pressure readings.
- **Warning:** Do not use the cuff over a wound arm or being on an intravenous drip.
- **Warning:** Do not use the device if the arm where intravascular access or therapy, or an arterio-venous (A-V) shunt is present because of temporary interference with blood flow and could result in injury to the patient.
- Please pay attention to product storage to prevent damage caused by pets, pests or children.
- Do not touch the patient and the live components of this device simultaneously, as this may result in injury.
- **Warning:** Do not use the cuff on the arm where the side of a mastectomy or lymph node clearance.
- **Warning:** Note that it will lose function of other monitor devices simultaneously on the same limb while cuff inflating.
- **Warning:** Do not allow frequent measurements the resulting restriction of the blood flow may cause injury.
- Avoid compression or bending of the cuff connection tubing while using the device. Otherwise the measurement results will be inaccurate.

Important notes

- **Warning:** Do not tangle the connection tubing, because the continuous cuff pressure can affect blood flow interference, resulting harmful injury to the patient.
- According to the local laws and regulations to deal with device and battery.
- The different type batteries might result in measurement error.
- Please follow the battery requirement of manufacturer.
- Please report serious incident that has occurred in relation to the device to the manufacturer and the competent authority of the Member State.
- Do not interconnect this equipment to other equipment not described in the instructions for use.
- The possible AFib screening feature evaluates for a possibility of AFib only. It will not detect other potentially life-threatening arrhythmias or diseases, such as a possibility of other cardiac arrhythmias or heart attack.
- **Note:** Do not diagnose with the measurement, please follow doctor's instruction.
- **Note:** Software version can be viewed in engineering mode by designated person. This mode is not accessible for regular users, and please contact the manufacturer for method to enter into the mode.
- **Statement:** The device's performance may be affected by exposure to extreme temperatures, humidity, or altitude. If stored or operated outside the environmental conditions specified by the manufacturer, the device may not meet its stated performance specifications.

Important notes

- **Warning:** Please ensure that the device is not impairing blood circulation by observing the arm while blood pressure measurement is occurring.
- Common arrhythmias such as atrial or ventricular premature beats or atrial fibrillation, arterial sclerosis, poor perfusion, diabetes, old age, pregnancy, pre-eclampsia, renal diseases may affect the blood pressure readings. Consult with the physician before using the device with such patients.
- Remove the device and accessories from the packaging and inspect for damage. If they are damaged, do not use.

Bluetooth transmission

1. Data Transmission

If you want your blood pressure measurements to be sent to your phone via Bluetooth, get a phone that supports Android 5.0 and above or IOS 9.0 and above to download Yuwell HealthCare+ app.

When connected with the app, the device can transmit measurements to the app and synchronize its clock with your connected mobile phone.

To ensure that the measurement results can be transmitted through Bluetooth, please keep the distance between the device and the mobile phone no more than 10 meters.

2. Wireless Communication Specification

Bluetooth core specification version	5.0
Frequency band	BLE:2402~2480MHz
Modulation	GFSK
Conducted power	-3.29dBm
Update rate	Transmit after each measurement
Data Rate	1Mbps
Bluetooth channel bandwidth	1 MHz

3. EU Conformity Statement



This device is marked with "CE" and complies therefore with the applicable harmonized European standards listed under the Radio Equipment Directive 2014/53/EU.

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.

Battery installation

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

1. The " " icon means the battery is low.
2. The " " icon means the battery is running out. Please replace all the batteries.

Warning:

Please remove batteries if this monitor will not be used for a long time (over 3 months).

Note:

- 5V/1000mA DC external power can be connected to the monitor. (Please use the power adapter supplied by us.)
- Please remove the batteries if use the DC external power for a long time.

Tips!

- Please use only the authorized Yuwell AC adapter (output DC 5V 1000mA). If you need to use a AC adapter, you can contact the local dealer for consultation about the relevant information.

Time and date and voice volume setting

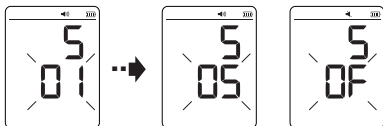
Time and date setting

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.

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

Voice volume setting

After finishing the time and date setting, press the "  " button to enter the voice volume setting. The size of the sound ranges from 01 to 05 and OFF. Press the "  " to choose sound which you need. Finish by pressing the "  " button.



Tips!

- This section applies only to the model with voice function.

Unit setting

Unit setting

1. After finishing the voice volume setting, press the "  " button to enter the unit setting.
2. Press the "  " button to choose unit between mmHg and kPa. Press "  " button to finish setting.
3. After finishing the unit setting, press the "  " button to shut down.

Tips!

- Attention: In the condition of kPa unit, there is no voice prompt for measurement result.
- Attention: In the condition of kPa unit, there is no WHO BP classification indication function.

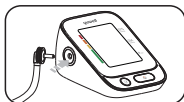
Using method of cuff

Tips!

- Either of the upper-arms can be measured. Do not measure other parts of the body.

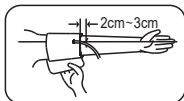
Cuff connecting

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



Using method of cuff

1. Wind the cuff around the upper arm. As shown in the picture, keep the lower edge of the cuff at the position above 2cm-3cm to the elbow joint and keep the air inlet which insert to the cuff at the inner side of arm.
2. Stick the cuff tightly.
3. Sit straight and flat the arm on table with palm up, and keep the center of cuff and heart at the same level. Also please ensure the air tube not twisted.



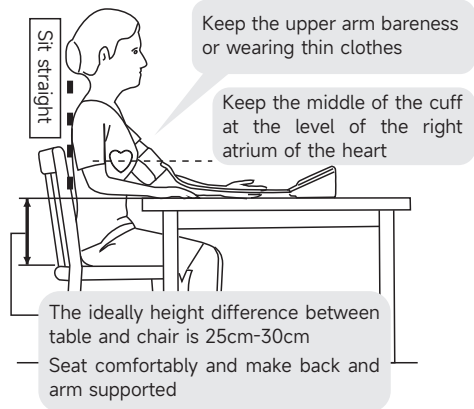
⚠ Note:

- The cuff should be wearing comfortably, avoiding too tight or loose.

Using method of cuff

Statement: Small-bore connector used in the device complies with ISO 80369-1.

Warning: As this medical device uses an alternative small-bore connector design different from those specified in the ISO 80369 series, there is a possibility that a misconnection can occur between this medical device and a medical device using a different alternative small-bore connector, which can result in a hazardous situation causing harm to the patient. Special measures need be taken by the user to mitigate these reasonable foreseeable risks.



Wrong measurement postures

- ▶ Do not bend down or body bend forward.
- ▶ Do not sit with legs crossed, feet should flat on the floor.
- ▶ 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).
- ▶ Do not lie down.



Tips!

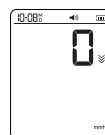
- Don't eat, smoke, drink, take bath or do any high-intensity sport within an hour before measuring. Measurements shall be taken at the same time every day.
- Sit still for 5 minutes before the measurement.
- Please relax as much as possible and not talk or move during the measurement procedure.

1. Measurement

- All icons on screen appear for 1 sec after pressing the "⏻" button, then disappear. After that the deflation icon "≡" flickers which means the system is in zero testing. Several seconds later the inflation icon "⏶" flashes which means the zero testing is finished. Then inflation starts.
- The monitor starts measuring automatically after inflation finished, and the measuring icon "♥" starts to flicker, pressure release value starts to decrease gradually.



Full screen display state



The zeroing state



The inflation state

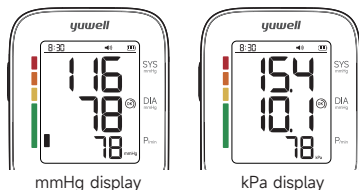


The measuring state

2. Measurement finished

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

Start measuring



Tips!

- In the condition of kPa unit, there is no WHO BP classification indication function.
- When the measurement result shows the icons "♥", "⚡", "☹", "❤️AFib", the WHO BP classification will not be displayed.

3. Take off the cuff

4. Shut down

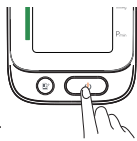
Press the "⏻" button to shut down. Also it will power off automatically in 3 minutes without any operation.

5. Power off

Unplug the adapter to safely disconnect it from mains. Do not position the device to make it difficult for safely disconnection from supply mains.

Emergency stop during measurement

If the measurement need stopping for uncomfortable 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 300 mmHg/40.0 kPa. Don't keep the inflated state for a long time to avoid damage.

Blood pressure level classification

The blood pressure level classification published by World Health Organization (WHO) and International Society of Hypertension (ISH) in 1999 is as follows.

Blood Pressure Classification	Systolic(mmHg)	Diastolic(mmHg)	Color Indicator
Optimal	< 120	< 80	GREEN
Normal	120-129	80-84	GREEN
High-Normal	130-139	85-89	GREEN
Grade 1 Hypertension	140-159	90-99	YELLOW
Grade 2 Hypertension	160-179	100-109	ORANGE
Grade 3 Hypertension	≥ 180	≥ 110	RED

The pressure level indicator allows quick detection of your blood pressure classification. The "█" indicator displays a segment, based on your measurement, corresponding to the WHO and ISH classification.



Blood pressure level classification indicator
Blood pressure level classification

⚠ Note:

- The time interval between two measurements should be at least 2 minutes-3 minutes or longer.
- If the SYS is higher than 139mmHg or DIA higher than 89mmHg means having high blood pressure, please contact with doctor for advice.
- The pressure level indicator is approximate. Please consult your physician to interpret your blood pressure measurements.
- Only a physician can tell your normal BP range. Please contact a physician if your measuring result falls out of the range. Please note that only a physician can tell whether your blood pressure value has reached a dangerous point.

Memory function

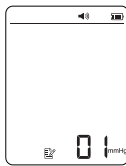
The monitor will store the measurement data automatically (including blood pressure and pulse), and the upper limit of records is 199. If the memory is full, the monitor will delete the earliest records.

1. Press the "E" button for the records.

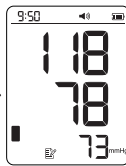
- Press the "E" button to show the average value of the latest 3 times measurement.
- Repress the "E" button to display the 1st group of memory, the serial number is displayed as "1" to "199". "1" is the latest group and the "199" is the earliest one. When displaying the value, the time and date are displayed alternately.



The average value



The 1st group of memory

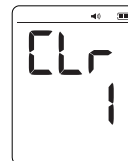


- Read the recorded data by pressing the "M" button as the sequence: "1", "2" "199" (max). Then return to the 1st. Holding the "M" button to search the data quickly.
- Press the "P" button to shut off the monitor.

Memory function

2. Delete the recorded data

- In the view memory state, press the both "P" button and "E" button until the display shown as the picture, which means the recorded data is cleared.
- Press the "P" button to turn off the monitor after deleting.



Note:

- This operation will delete all of the recorded data.

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 zero 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.

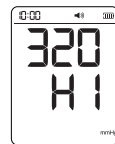
Entering the static mode

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

Static mode

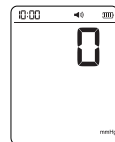
⚠ Note:

- When the measured pressure exceeds 300mmHg during static test, pressure value and "HI" are displayed, indicating the measurement result exceeds the rated range and may be inaccurate.



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

Method of verifying calibration

- The verification system is determined by applying a "Y" adapter to the pressure line and attaching a reference standard.
- Enter into the static mode, read the device and the reference gauge simultaneously, the error of 3mmHg is normal by reducing the pressure from 300mmHg to zero at a rate of 3mmHg/s $\pm$ 1mmHg/s.
- If the error out of 3mmHg, please contact the manufacturer for calibration.

Common question 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, 25mmHg~30mmHg 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. 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.

Common question of blood pressure measurement

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.

5. 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 the same time every day.

6. If the “ AFib ” icon does not appear, does it mean there is no possibility of AFib?

Even if the “AFib” icon does not appear, there is still a possibility of AFib. If taking a measurement at a time when AFib does not occur, possible AFib might not be detectable. This monitor cannot detect all forms of AFib.

7. Should I consult with my physician if the “ AFib ” icon appears or sometimes appears?

AFib does not always have symptoms. It is recommended that you consult with, and follow the directions of your physician. This icon may be displayed for other reasons, such as other heart arrhythmias.

9. I have been diagnosed with AFib by my physician, but the “ AFib ” icon does not appear.

AFib may not occur at the time of specific blood pressure measurements. It is recommended that you consult with your physician regularly.

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 wound 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

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

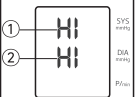
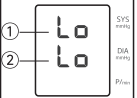
Wrong indication	Fault cause	Solution
Err 4	Unable to measure pressure	Fasten cuff correctly before measurement
Err 5	Pressurizing error	Check if there is air leakage from the cuff
Err 6	Pressurizing error caused by arm or body motion	Keep arm and body still and measure again
Err 7	Cuff is too loose or fall off	Fasten cuff tightly
Err 8	Pressure exceeds the maximum value (300mmHg)	Measure again please
	Battery is low	Replace new batteries
	Battery is running out	Replace new batteries

Alarm system

Warning:

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

When the determined blood pressure is outside the rated range, there is a visual alarm signal on the display screen. Please refer to below table for details.

Alarm indication	Display contents and causes
	① When SYS display area shows "HI", it indicates the measurement result of systolic pressure exceeds 260mmHg.
	② When DIA display area shows "HI", it indicates the measurement result of diastolic pressure exceeds 210mmHg.
	① When SYS display area shows "Lo", it indicates the measurement result of systolic pressure is below 40mmHg.
	② When DIA display area show "Lo", it indicates the measurement result of diastolic pressure is below 20mmHg.
When the above alarm indication shows, please measure again or consult the doctor.	

Note:

- If the alarm indication cannot be solved and the user feels uncomfortable, please consult the doctor as soon as possible.
- If the alarm indication cannot be solved or need to verify the functionality of the alarm system, please consult the manufacturer.

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 expose the device and accessories to lint, dust, sunshine, extreme temperatures such as fireplace or radiant heater and extreme humidity such as steam kettle or corrosive vapors.
- The cuff contains an airbag inside, please care in applications, do not fold, pull or twist it.
- **Warning:** Do not disassemble or repair the device without authorization or modify the device authorization without.
- Do not service or maintain while the device is in use.
- Using soft dry cloth or soft cloth stained with little water to clean the device in the case of single people use it, but do not let the water flow into the monitor and cuff.
- Using soft cloth stained with 75% ethanol to clean the device in the case of many people use it, but do not let the ethanol flow into the monitor and cuff.
- Don't clean the device when it is connected to the AC mains supply.
- Manufacture will make available on request circuit diagrams, component part lists, descriptions, calibration instructions, or other information that will assist service person to repair those parts of the device that are designated by the manufacture as repairable by service person.
- Degraded sensors can degrade performance.

Tips!

- The device has been calibrated initially when manufactured. There is no need for readjustment if it is used according to the instruction. If at anytime you question the accuracy of the device, please contact the manufacturer.
- It is generally recommended to verify the pressure accuracy every two years to ensure correct functioning and accuracy.

Specifications

1. Technical parameters

Displaying	LCD digital display
Operating principle	Oscillometric method
Measuring range	Diastolic: 20mmHg~210mmHg Systolic: 40mmHg~260mmHg Cuff pressure: 0mmHg~300mmHg
Pulse rate	40beats/min~200beats/min
Precision	Pressure: within $\pm 3\text{mmHg}(\pm 0.4\text{kPa})$ Pulse rate: within 5% of reading value
Working system	Continuous operation
Degree of protection against harmful ingress of water and particulate matter	IP21 No protection against ingress of water Protected against solid foreign objects of 12.5 mm $\varnothing$ and greater
Electric classification	Class II and internally powered, type BF applied parts (cuff is applied part)
Service life	5 years (6 times for each day) for the monitor, 5000 times for cuff
Power supply	Battery: 4 AA batteries AC adapter: input 100V~240V~ 50Hz/60Hz 0.35A MAX output 5V==1000mA
Battery life	The battery can be used about 300 times
Fuse	32V, 1A, Slow Blow, 1206, 0.1945A ² S
Dimension	Approx.132x97x70 (mm)
Weight	270g (Without batteries)
Major software version	2

Specifications

2. Operation and storage conditions:

Operation conditions:

a temperature range of $+5^{\circ}\text{C}$ to $+40^{\circ}\text{C}$;
a relative humidity range of 15% to 90%, non-condensing; an atmospheric pressure range of 70kPa to 106kPa.

Transportation and storage conditions:

-25°C to $+5^{\circ}\text{C}$, and $+5^{\circ}\text{C}$ to $+35^{\circ}\text{C}$ at a relative humidity up to 90%, non-condensing, $> 35^{\circ}\text{C}$ to 70°C at a water vapour pressure up to 5kPa.

Operation environment:

Avoid electromagnetic interference, violent shock and noise environment.

Recovery time:

1. When the ambient temperature is 20°C , the time required for the device to warm from the minimum storage temperature (-25°C) until the device is ready for use is 2 hours.
2. When the ambient temperature is 20°C , the time required for the device to cool from the maximum storage temperature (70°C) until the device is ready for use is 2 hours.

The contact materials detail of product

Part	Rear Cover	Top Cover	Cuff		
			Arm band	Air plug connect	Air tube
Material	ABS	PC	Nylon, polyester	ABS	PVC

The device was clinically investigated according to the requirement of ISO 81060-2. The device complies with IEC 80601-2-30.

Electromagnetic compatibility information

This device conforms to IEC 60601-1-2:2014+AMD1:2020 Electromagnetic Compatibility (EMC) standard. Nevertheless, special precautions need to be observed:

- The device is suitable for home healthcare environment and professional healthcare facility environment, except for near active HF surgical equipment and the RF shielded room of a medical electrical system for magnetic resonance imaging, where the intensity of Electromagnetic (EM) disturbances is high.
- Essential performance:

① Limits of the error of the manometer from environmental conditions: Over the temperature range of 5°C to 40 °C and the relative humidity range of 15 % to 90 % (non-condensing), the maximum error for the measurement of the cuff pressure at any point of the nominal measurement range shall be less than or equal to ± 3 mmHg (± 0.4 kPa).

② Reproducibility of the blood pressure determination: The laboratory reproducibility of the blood pressure determination of the automated sphygmomanometer shall be less than or equal to 3.0 mmHg (0.4 kPa).

- **Warning:** The operator should not use the device and should inform the customer service, if the essential performance is lost or degraded due to EM disturbances.
- **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.

Electromagnetic compatibility information

- List of accessory and cable that are replaceable by the responsible organization and that are likely to affect compliance of the device with the requirements of EMC are as below:

Accessory Name	Model	Manufacturer	Cable Length (m)
USB cable	LXN-C066-008-01	DANYANG LIXIN ELECTRONICS CO.,LTD.	≤ 1.2
AC adapter	EU Model: HT-C38B-0510EW US Model: HT-C38B-0510WW UK Model: HT-C38B-0510UW	WEIHAI HITAI ELECTRONICS Co.,LTD.	/

- **Warning:** Use of accessories and cables other than those specified or provided by Yuwell could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
- **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 the Electronic Blood Pressure Monitor (Model Number: YE660E), including cables specified by Yuwell. Otherwise, degradation of the performance of this device could result.
- Please use and maintain this device according to the user's manual to maintain basic safety and essential performance with regard to EM disturbances for the expected service life.

Electromagnetic compatibility information

- In environments that do not meet the electromagnetic immunity standards, the essential performance of the device may deteriorate and correct measurement results may not be obtained.
- There is 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, then turn on again.
 (2) Change the direction of the device.
 (3) Keep the product away from the interferential devices.

Table 1 – Emission Limits and Compliance

Phenomenon	Emission Limits	Compliance
Conducted and radiated RF Emissions	CISPR 11	Group1, Class B
Harmonic distortion	IEC 61000-3-2	Class A
Voltage fluctuations and flicker	IEC 61000-3-3	Complies

Electromagnetic compatibility information

Table 2 – Immunity Test Levels

Phenomenon	Basic EMC Standard	Immunity Test Levels
Electrostatic discharge	IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air for enclosure port
Radiated RF EM fields	IEC 61000-4-3	10 V/m 80 MHz - 2.7 GHz 80 % AM at 1 kHz for enclosure port
Proximity fields from RF wireless communications equipment	IEC 61000-4-3	See table 3
Rated power frequency magnetic fields	IEC 61000-4-8	30 A/m 50 Hz and 60 Hz for enclosure port
Proximity magnetic fields	IEC 61000-4-39	See table 4
Electrical fast transients / bursts	IEC 61000-4-4	±2 kV 100 kHz repetition frequency for input a.c. power port
Surges Line-to-line	IEC 61000-4-5	±0.5 kV, ±1 kV for input a.c. power port
Conducted disturbances induced by RF fields	IEC 61000-4-6	3 Vrms 0.15 MHz to 80 MHz 6 Vrms in ISM and amateur radio bands between 0.15 MHz and 80 MHz 80 % AM at 1 kHz for input a.c. power port
Voltage dips	IEC 61000-4-11	0 % U_T ; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° for input a.c. power port 0 % U_T ; 1 cycle and 70 % U_T ; 25/30 cycles single phase: at 0° for input a.c. power port
Voltage interruptions	IEC 61000-4-11	0 % U_T ; 250/300 cycle for input a.c. power port

Electromagnetic compatibility information

Table 3 – Test Specifications for Enclosure Port Immunity to RF Wireless Communications device

Test Frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation	Immunity Test Level (V/m)
385	380 to 390	TETRA 400	Pulse modulation ^{b)} 18 Hz	27
450	430 to 470	GMRS 460, FRS 460	FM ^{c)} ±5 kHz deviation 1 kHz sine	28
710 745 780	704 to 787	LTE Band 13, 17	Pulse modulation ^{b)} 217 Hz	9
810 870 930			Pulse modulation ^{b)} 18 Hz	28
1720 1845 1970			Pulse modulation ^{b)} 217 Hz	28
2450			Pulse modulation ^{b)} 217 Hz	28
5240 5500 5785	5100 to 5800	WLAN 802.11 a/n	Pulse modulation ^{b)} 217 Hz	9

If necessary to achieve the immunity test level, the distance between the transmitting antenna and the ME equipment or ME system may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.

- a) For some services, only the uplink frequencies are included.
 b) The carrier shall be modulated using a 50 % duty cycle square wave signal.
 c) As an alternative to FM modulation, the carrier may be pulse modulated using a 50 % duty cycle square wave signal at 18 Hz. While it does not represent actual modulation, it would be worst case.

Electromagnetic compatibility information

Table 4 – Test Specifications for Enclosure Port Immunity to Proximity Magnetic Fields

Test Frequency	Modulation	Immunity Test Level (V/m)
30 kHz	CW	8
134.2 kHz	Pulse modulation ^{a)} 2.1 kHz	65 ^{b)}
13.56 MHz	Pulse modulation ^{a)} 50 kHz	7.5 ^{b)}

a) The carrier shall be modulated using a 50 % duty cycle square wave signal.
 b) r.m.s., before modulation is applied.

FCC Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates,uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.