

JIACOM

ARM TYPE AUTOMATIC
BLOOD PRESSURE MONITOR



Model No.: BP368A

Instruction manual

FileNo.: PC-0368A-04, Ver:V01



Shenzhen Jiacom Technology Co., Ltd
Add: 301, No.596-4 Dahe Village, Guancheng
Community, Guanhu Street, Longhua
District, Shenzhen, Guangdong, CHINA



Umedwings Netherlands B.V.
Address: Treubstraat 1, 2288EG, Rijswijk,
the Netherlands SRN:NL-AR-000000444



CE 0197 IP20

Table of Contents

Introduction-----	2
Safety Information -----	3
Product Structure	
--Each part name -----	7
Battery installation-----	8
Setting mode	
--How to set-----	10
Proper use of the unit	
--Pre-measurement-----	13
--Common factors	
of wrong measurement-----	13
--Fitting the cuff-----	15
--Measuring procedure-----	16
--Discontinuing a measurement-----	16
--Memory-recall of measurements-----	16
--Read memory record-----	16
--Memory-clear of measurements -----	17
About blood pressure-----	17
Exceptional situations-----	19
Care and maintenance-----	20
Specification-----	21
Warranty information-----	22
EMC Declaration-----	23
EMC Declaration (Continued) -----	24

- Field strengths from fixed RF transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the VST300 device are used exceeds the applicable RF compliance level above, the VST300 device should be observed to verify normal operation. If abnormal operation is observed, additional measures may be necessary, such as reorienting or relocating the VST300 device.

- Over the frequency range 150kHz to 80MHz, field strengths should be less than 3V/m

EMC Declaration(Continued)

Recommend separation distance between portable and mobile RF communications equipment and the FR series device

The Blood Pressure Monitor BP368A is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Blood Pressure Monitor BP368A can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the FR series device as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	80MHz to 800MHz $d = 1.2\sqrt{P}$	800MHz to 2.7GHz $d = 2.3\sqrt{P}$
0.01	/	0.12	0.23
0.1	/	0.38	0.73
1	/	1.2	2.3
10	/	3.8	7.3
100	/	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters(m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts(W) according to the transmitter manufacturer.

NOTE1 At 80MHz and 800MHz, the separation distance for the higher frequency range applies.

NOTE2 These guidelines will not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Introduction

Your new digital blood pressure monitor uses the oscillometric method of blood pressure measurement. This means the monitor detects your blood's movement through your brachial artery and converts the movements into a digital reading. An oscillometric monitor does not need a stethoscope, so the monitor is simple to use. This automatic blood pressure monitor could measure the systolic pressure, diastolic pressure and pulse, the components are included the body, cuff and printed instruction manual.

Please read this manual carefully before using your digital blood pressure monitor. You can find the device information at the following link: <https://en.szjiakang.com/product/sbsdxyj.html>

Intended Use:

Arm Type Automatic Blood Pressure Monitor is a digital monitor intended for use in measuring blood pressure and pulse rate in adult patient population via non-invasive oscillometric technique in which an inflatable cuff is wrapped around the arm. It can be used at medical facilities or at home.

Intended Patients:

Adults with arm circumference within 22~32cm

Intended operator:

Adults have 8 years intensive reading experience, can be read and understand the user manual.

Clinical benefit:


Through accurate measuring of blood pressure and heart rate, provide abnormal blood pressure diagnosis of diseases for adults during the life time of the device. Intelligent inflation will reduce the uncomfortable feeling by incorrect inflation, and shorten the measurement time, prolong the cuff's usage lifetime. 2*120 sets memory function, each measurement result will be displayed on the screen, and automatically stored. This unit has blood classification index, could easy to check your blood pressure. Please read the manual carefully before you use the unit, and keep the manual well after using.


Safety Information












- To assure the correct use of the product, basic safety measures should always be followed including the warning and the caution listed in the instruction manual:


Symbol descriptions


The following symbols may appear in this manual, on the label, on the device, or on its accessories. Some of the symbols represent standards and compliances associated with the device and its use.

 **WARNING:** This alert identifies hazards that may cause serious personal injury or death.


 **CAUTION:** This alert identifies hazards that may cause minor personal injury, product damage, or property damage.


-  Applied part of type BF
-  Refer to instruction manual
-  Disposal in accordance with Directive 2002/96/EC (WEEE)
-  Pile Limit 4 layers
-  Serial number
-  Medical device
-  indicates a carrier that contains unique device identifier information
-  Date of manufacture
-  Manufacturer
-  Contents of the distribution packages are fragile therefore it shall be handled with care.
-  Distribution packages shall be kept away from rain and be kept in dry conditions.

 This is the correct upright position of the distribution packages for transport and/or storage

 The range of humidity (upper limited : 85%RH, Lower limited : 10%RH) to which the medical device can be safely exposed.

 Upper temperature limits (55 °C) and lower limited (-20 °C) to which the medical device can be safely exposed


 0197 Complies with the European Medical Device Regulation 2017/745. Notified Body is 0197.

 Authorized representative in the European Community.

IP20 IP code of the device: this device's grade of against ingress of solid foreign objects – ≥ 12.5 mm diameter (and the against access to hazardous parts with finger) ; non waterproof.

EMC Declaration(Continued)

Guidance and manufacturer's declaration-electromagnetic immunity.

The Blood Pressure Monitor BP368A is intended for use in the electromagnetic environment specified below. The customer or the user of the Blood Pressure Monitor BP368A device should assure that they are used in such environment.			
Immunity Tests	IEC60601 test level	Compliance level	Electromagnetic environment-guidance
			Portable and mobile RF communications equipment should be used no closer to any part of the FR series device, including cables, than the recommended separation distance calculated from the equation
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80MHz 6 V in ISM bands between 0,15 MHz and 80 MHz	N/A	applicable to the frequency of the transmitter Recommended separation distance $d = 1.2\sqrt{P}$
Radiated RF IEC 61000-4-3	10V/m 80MHz to 2.7GHz	10V/m 80 MHz to 2.7GHz	$d = 1.2\sqrt{P}$ 80MHz to 800MHz $d = 2.3\sqrt{P}$ 800MHz to 2.5GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol: 
NOTE1 At 80MHz and 800MHz, the higher frequency range applies. NOTE2 These guidelines may not apply in all situations. Electromagnetic is affected by absorption and reflection from structures, objects and people.			

EMC Declaration

Guidance and manufacturer's declaration—electromagnetic immunity.

The Blood Pressure Monitor BP368A is intended for use in the electromagnetic environment specified below. The customer or the user of the Blood Pressure Monitor BP368A should assure that they are used in such environment.			
Immunity Tests	IEC60601 test level	Compliance level	Electromagnetic environment—guidance
Electrostatic Discharge (ESD) IEC 61000-4-2	±8kV contact ± 15 kV air	± 8 kV contact ± 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast Transient/burst IEC61000-4-4	±2 kV for power supply lines ± 1 kV for input/output lines	N/A	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC61000-4-5	±1 kV differential mode	N/A	Mains power quality should be that of a typical commercial or hospital environment.
	±2kV common mode		
Voltage dips, short interruptions and voltage variations on power supply input lines IEC61000-4-11	0%Ur; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% Ur; 1 cycle and 70% Ur; 25/30cycles Single phase: at 0° 0% Ur; 250/300cycle	N/A	Mains power quality should be that of a typical commercial or hospital environment. If the user of the VST300 device requires continued operation during power mains interruptions, it is recommended that the VST300 device be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) Magnetic field IEC61000-4-8	30A/m	30A/m	Power frequency magnetic fields should be at levels of a typical commercial or hospital environment.
NOTE: U_r is the a.c. mains voltage prior to application of the test level.			

Safety Information

- ⚠ Those who have arrhythmia, diabetes, blood circulation or apoplexy problem, please use under the physician's instruction.
- ⚠ This device is not intended for use with pregnant, including pre-eclamptic
- ⚠ Contact your physician for specific information about your blood pressure. Self diagnosis and treatment which use measured results may be dangerous. Follow the instructions of your physician or licensed healthcare provider.
- ⚠ Please place on a high place where children can't touched.
- ⚠ No modification of this equipment is allowed
- ⚠ Do not modify this equipment without authorization of the manufacturer.
- ⚠ If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of equipment
- ⚠ The cuff hose around neck may cause the suffocation.
- ⚠ The swallowing of small part like packaging bag, battery, battery cover and so on may cause the suffocation.
- ⚠ Please don't use a dilution agent, alcohol or petrol to clean the unit. Please don't hit heavily or fall down the product from a high place. Use the right cuff, otherwise it can not work.
- ⚠ Never leave any low battery in the battery compartment since they may leak and cause damage to the unit.
- ⚠ Please take off the battery if you won't use in 3 months.
- ⚠ Replace the new batteries if the unit display a low battery symbol.
- ⚠ Do not apply the cuff on the arm while on an intravenous drip or blood transfusion.

- ⚠ Warning: servicing and maintenance while the ME EQUIPMENT is in use is not allowed.
- ⚠ The internal parts of the ME EQUIPMENT that shall not be serviced or maintained while in use with the patient.
- ⚠ The PATIENT is an intended OPERATOR, PATIENT can safely use all the ME EQUIPMENT functions.
- ⚠ The lint, dust, light (including sunlight) may affect the normal use or damage the equipment; the pets, pests or children may damage the equipment, please store and maintenance follow the instruction.
- ⚠ The degraded sensors and electrodes, or loosened electrodes, that can degrade performance, please store and maintenance follow the instruction.
- ⚠ Continuous CUFF pressure due to connection tubing kinking can interfere blood flow and resulting harmful injury to the patient.
- ⚠ Too frequent measurements can cause injury to the PATIENT due to blood flow interference.
- ⚠ Do not application of the CUFF over a wound, as this can cause further injury.
- ⚠ The application of the CUFF and its pressurization on any limb 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.
- ⚠ The application of the CUFF and its pressurization on the arm on the side of a mastectomy or lymph node clearance could result in injury to the PATIENT.
- ⚠ The information that pressurization of the CUFF can temporarily cause loss of function of simultaneously used monitoring ME EQUIPMENT on the same limb
- ⚠ Check that operation of the AUTOMATED SPHYGMOMANOMETER does not result in prolonged impairment of the circulation of the blood of the PATIENT.
- ⚠ Consult your doctor if unexpected readings are obtained.
- ⚠ Common arrhythmias such as atrial or ventricular premature beats or atrial fibrillation, arterial sclerosis, poor perfusion, diabetes, age, pregnancy, pre-eclampsia, renal diseases, PATIENT motion, trembling, shivering can affect the performance of the AUTOMATED SPHYGMOMANOMETER and/or its BLOOD PRESSURE reading.
- ⚠ The performance of the AUTOMATED SPHYGMOMANOMETER can be affected by extremes of temperature, humidity and altitude

Warranty information

Statement

- Blood pressure measurements determined with this device are equivalent to those obtained by a trained observer using the cuff/stethoscope auscultatory method, within the limits prescribed by the American National Standard, manual, electronic, or automated sphygmomanometers.
- The risk of patient and user can be lowered to acceptable level





Warranty Information

- The unit is guaranteed to be free of defects in workmanship and materials under normal use for a period of Two Years from the date listed on the purchase record.
 - For repair under this warranty. Our authorized service agent must be advised of the fault with the period of the warranty. This warranty covers parts and labor only under normal operations. Any defect resulting from natural causes, eg. flood, hurricane etc, is not within this guarantee. This warranty does not cover damage incurred By use of the unit not in accordance with the instructions, accidental damage, or being tampered with or serviced by unauthorized service agents.
 - Monitor subjected to misuse, abuse, and neglect of these manual content, non-instructional purposes; unauthorized repair or modifications will be excluded from this warranty.
- ⚠ The device requires no calibration.
 - ⚠ The device is not repairable and contains no user serviceable parts.

Specification

Description	Arm type automatic blood pressure monitor	
Display	LCD digital display	
Measuring principle	Oscillometric method	
Measuring localization	Upper arm	
RATED range of CUFF pressure : 0mmHg~299mmHg (0kPa-39.7kPa)		
Measurement range	Pressure	30~255mmHg(4~34kPa)
	Pulse	40~200pulses/min
Accuracy	Pressure	±3mmHg (±0.4kPa)
	Pulse	±5% of reading
LCD indication	Pressure	3 digits display of mmHg
	Pulse	3 digits display
	Symbol	Memory/Heartbeat/Low battery
Memory function	2*120 sets memory of measurement values	
Power source	4pcsLR6 alkaline battery orDC.6VAC adapter	
Automatic power off	In 3 minutes	
Main unit weight	434g(with batteries)	
Main unit size	L145mmxW105mmxH52mm	
Main unit lifetime	5 years under normal use	
Battery life	Could be used for 300 times for normal condition	
Accessories	Cuff, instruction manual	
Operating environment	Temperature	5~40°C
	Humidity	15%~85%RH
	Air pressure	86kPa~106kPa
Transportation/ Storage environment	Temperature-20°C~55°C, Humidity : 10%~85% Air Temperature: 86kPa~106kPa avoid crash, sun burn or rain during transportation.	

Safety Information

-  Do not mix the old and new batteries
-  Do not use a cellular phone near the unit. It may result in operational failure.
-  Please avoid using in high radiant area in order to make your measuring data correctly.
-  Do not use the equipment where flammable gas (such as anesthetic gas, oxygen or hydrogen) or flammable liquid (such as alcohol) are present.




WARNING:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact you local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

Classification

1. Internally powered equipment;
2. Type BF applied part;
3. Protection against ingress of water: IP20;
4. Not category AP/APG equipment;
5. Mode of operation: Continuous operation;

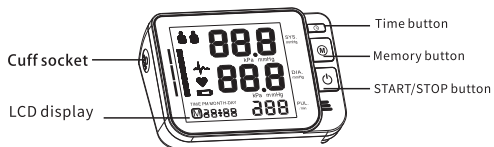
-  The user must check that the equipment functions safely and see that it is in proper working condition before being used.

Reporting adverse events

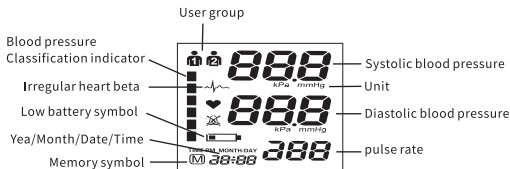
If users/patients/customer think that they or someone in their family has experienced a serious incident that has occurred in relation to the device, users/patients/customer are encouraged to report the incident to the manufacturer and the competent authority of the Member State in which the users/patients/customer is established.

Product structure

Body



Display

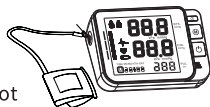


Cuff size and connection

The accessories cuff is L size, for upper-arm circumference 22-32cm use. The cuff is treated as the applied part.

Insert the connector with cuff tube into the hole which is on the left side of the device as picture.

(Only provided cuff can be used, can not change to any other branded cuff.)



Care and maintenance

Care for the main unit and blood pressure monitor cuff

- Keep the unit in the storage case when no use.
 - Clean the unit with soft dry cloth.
- Do not use any abrasive or volatile cleaners.
- Never immerse the unit or any component in water.



- Make sure the monitor is off prior to cleaning, a mixture of distilled water and 10 percent bleach could be used.
- Using a spray bottle, moisten a soft cloth towel with the bleach or detergent mix until it is fully saturated. Squeeze any excess moisture from the cloth to avoid any dripping or potential oversaturation of the cuff.
- Wipe all surfaces of the blood pressure monitor cuff thoroughly, making sure to clean the inside and outside of the cuff. Be cautious not to get any moisture in the main unit.
- Using a dry cloth, gently wipe away any excess moisture that may remain on the blood pressure cuff. Lay the cuff flat in an unrolled position and allow the cuff to air dry.



Maintenance

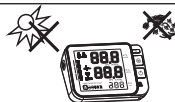
- Do not clean the body and cuff with naphtha, thinner or gasoline etc.



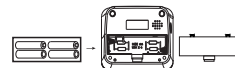
- Do not wet the cuff or attempt to clean the cuff with water.



- Store the unit in a clean and dry location. Do not subject the unit to extreme hot or cold temperature, humidity and direct sunlight.



- Remove the batteries if the unit will not be used in 3 months or longer.




※ We won't be responsible for any quality problem if you don't care and maintain the product as instructed


Exceptional Situation

Error indicators

■ The following symbol will appear on the display when measuring abnormal.

Symbol	Cause	Correction
E-1	Weak signal or pressure change suddenly	Wrap the cuff properly.
		Remeasure with correct way.
E-2	External strong disturbance	When near cell phone or other high radiant device , the measurement will be failed.
		Keep quite and no chatting when measure.
E-3	It appears error during the process of inflating	Wrap the cuff properly.
		Make sure that the air plug is properly inserted in the unit.
		Remeasure.
E-5	Abnormal blood pressure	Repeat the measurement after relax for 30 mins , if get unusual readings for 3 times,please contact your doctor
	Low battery	Replace all the worn batteries with new ones.

Trouble removal

Problem	Check	Cause and solutions
Nopower	Check the battery power	Replace new one
	Check the polarity position	Installation for proper placement of the batteries polarities
No inflation	Whether the plug insert	Insert into the air socket tightly
	Whether the plug broken or leak	Change a new cuff
Err and stop working	Whether move the arm when inflate	Keep the body peaceful
	Check if chatting when measured	Keep quite when measure
Cuff leak	Whether the cuff wrap too loose	Wrap the cuff tightly
	Whether the cuff broken	Change a new cuff
 Please contact the distributor if you can't solve the problem, do not disassemble the unit by yourself!		


Battery installation

Battery installation

Remove the battery cover from the battery compartment, Insert the battery,

- Remove the battery cover as picture showed
- Insert 4 LR6 powerful batteries into the compartment and ensure each battery is in the proper direction.

Low battery and replacement

When power on, the low battery symbol  will display once the unit start to work, and you must replace with new batteries, otherwise the unit can't work.

Battery type and replacement

Please use 4pcs LR6 identical 1.5V alkaline batteries.

Do not use the batteries beyond their expiry date.

Please remove the batteries if you do not need to use for long time.

WARNING:

Dispose of the battery in accordance with all federal, state and local laws. To avoid fire and explosion hazard, do not burn or incinerate the battery.

Battery installation

Adapter usage (option)

1. When optional AC adapter should comply with the requirement of IEC 60601-1:2005. Furthermore all configurations shall comply with the requirements for medicalelectrical systems (see clause 16 of the 3Ed.of IEC 60601-1, respectively) . Anybody connecting additional equipment to medical electrical equipment configures a medical system and is therefore responsible that the system complies with the requirements for medical electrical

systems. Attention is drawn to the fact that local laws take priority over the above mentioned requirements. If in doubt, consult your local representative or the technical service department.

2. When using AC power, to avoid possible damage to the monitor, use only the exclusive AC adapter that can be purchased from authorized dealers. Other adapters may vary in output voltage and polarities.

3. Insert the adapter plug into the hole on the backside of the unit as picture.

4. Insert the other side of the adapter into the outlet with 100-240V

5. To remove the AC adapter, disconnect the adapter plug from the outlet first and then disconnect the cord from the unit's socket.

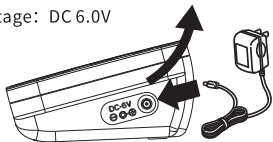
Adapter technical features: Output voltage: DC 6.0V

Max. output current: At least 1A

Output plug polarity: <-> inner

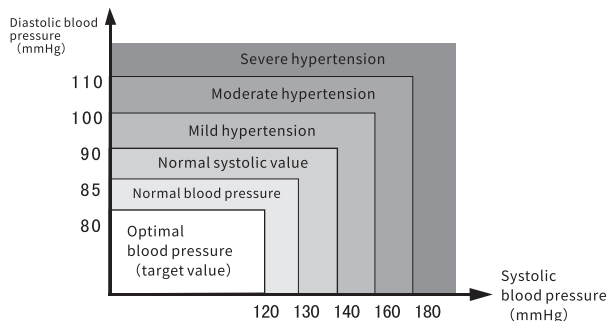
External diameter: 5.5mm 0.1mm

Internal diameter: 2.1mm 0.1mm

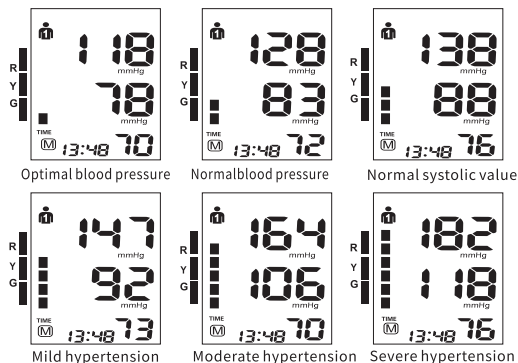


About blood pressure

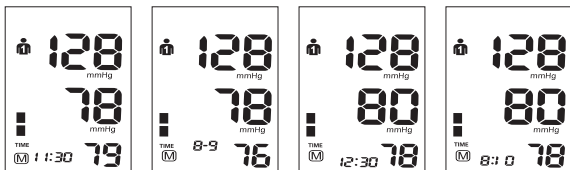
- According to the blood pressure classification by the WHO/ISH.
- SYS lower than 100mmHg (13.3kPa) is considered as hypotension.
- SYS lower than 100mmHg (13.3kPa) is consider as Diastolic blood pressure



■ Blood pressure type



About blood pressure



Memory -clear of measurements

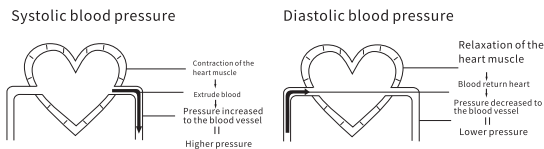
If you are sure that you want to permanently remove all stored memories. press the button (M) until it is shown CL, after this press button (M) then all the records will be cleared.

About blood pressure

Blood pressure is the pressure exerted the arteries.

The systolic blood pressure value represents the blood pressure produced by contraction of the heart muscle.

The diastolic blood pressure value represents the blood pressure produced by relaxation of the heart muscle.



Setting mode

Note:

- . When use AC adapter, the power of battery won't be consumed.
- . When suddenly stop during measurement (like the plug off from the outlet by carelessness) , it must be reinserted the plug into the unit, and restart the measurement.

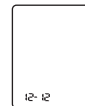
How to set

1. Start to year:

Press button (L) when power on , the year will be flashing, and then use (M) button to set year which you want, press (L) button when you confirm the year, then It will enter into the month and date setting mode

2. Month and date setting

Continue to above step, the screen will display MONTH-DAY and XX-xx, and keep flashing on month , the digit will increase 1 when press button (M) each time, you could choose from 1to 12. Press button (L) when you confirm the month, then it will set the date. Same as the month setting , each time you press button (M) the digit will keep changing from 01 to 31. Press button (M) when you confirm the date, then it will enter into the time setting mode.



Month setting



Date setting

Setting mode

Set Alarm Reminder

This blood pressure monitor is able to set two sets of alarm reminders, and the alarm will ring up if it has been activated. It is a useful auxiliary function which helps to remind you of the meditation or measurement time, etc.

1) Set Alarm Reminder 1 or 2: When the power is on, press the **L** first, and then press the **M** at the same time for 2 seconds. Now you will see an alarm symbol in bottom left corner. While the figure of "1" is blinking, press the **M** to choose Alarm Reminder 1 or 2, and then press the **L** to confirm. (Please note that only after the time of the item has been set up will the alarm reminder can be used.)

2) Set alarm time: Now the digits of hour is blinking. Press the **M** to select the correct hour, and then press the **L** to confirm. After that the digits of minute is flashing. Similarly, press the **M** to select and then the **L** to confirm.

3) Turn on/off the alarm reminder: After the alarm time is set, the image of alarm is blinking. Press the **M** to choose either turn it on (without a cross on the alarm figure) or off (with a cross on the alarm figure). Press the **L** to confirm, and the alarm setting is done.

Note:


To set the second alarm, please select Alarm Reminder 2 and follow the instructions above.

- An alarm mark displayed on the screen means the alarm function have been activated.
- Alarm will ring up at the same time every day if it has been activated.
- To shut down the alarm when it rings, please press the START/STOP button.
- To shut down the alarm permanently, first operate as the descriptions above, next select the cross bell mark, and then the alarm mark will not be displayed on the screen.
- The alarm reminder needs to be reset every time the power is off.


Proper use of the unit

Measuring procedure:

After the cuff has been appropriately positioned, the measurement can begin:

- 1) . Press the START/STOP button, all symbols appear on the display, you can hear 2 short beep after 0 flash for 2 seconds, then the pump begins to inflate the cuff, the rising pressure in the cuff is shown on the display.
- 2) . After the suitable pressure has been reached, the pump stops and the pressure gradually falls. The cuff pressure is displayed. In case that the inflation is not sufficient, the device automatically re-inflates to a higher pressure.
- 3) . When the device detects the signal, the heart symbol  on the display starts to flash, you can hear the beep for every heartbeat once the heartbeat signal is detected.
- 4) . When the measurement has been completed, you can hear a long beep, in the meantime, the systolic, diastolic and pulse rate will appear on the display.
- 5) . The measurement readings remain on the display until you switch off the device. If no button is pressed for a period of 3 minutes, the device switches off itself in order to save the power.

Note: It will read in kPa as unit when you choose kPa.

The symbol  will be displayed along with the reading if the irregular heartbeat is detected during the measurement.

Discontinuing a measurement

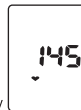
If it is necessary to interrupt a blood pressure measurement for any reason (eg, the patient feels unwell) the START/STOP button can be pressed at any time. The device immediately decrease the cuff pressure automatically.

Memory-recall of measurements

This blood pressure monitor automatically stores 2*120 sets measurements value, the oldest record will be replaced by the latest measurement value when more than 120 sets each user.

Read memory record

Press the button **M** when power off, the last measurement value will be shown, as well as subsequent measurements can be display one after the other by pressing the button **M** each time.



Proper use of the unit

Fitting the cuff

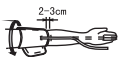
1) .Put the cuff on a table flatly with the velcro side down. Pass the end of the cuff through the metal loop so that a circle is formed. The velcro closer will now be facing outwards (ignore this step if the cuff has already been prepared)。



2) .Push the cuff over the left upper arm so that the tube points in the direction of the lower arm.



3) .Wrap the cuff on the arm as illustrated. Make certain that the lower edge of the cuff lies approximately 2 to 3 cm above the elbow and the rubber tube leaves the cuff on the inner side of the arm.



4) .Tighten the free end of the cuff and close the cuff by affixing the velcro.



5) .The cuff should be snug on your upper arm so that you can fit 2 fingers between the cuff and your upper arm. Any piece of clothing restricts the arm which must be taken off.



6) .Secure the cuff with the velcro closer in such a way that it lies comfortably and not too tight. Lay your arm on a table (palm upwards) so that the cuff is at the same height as the heart. Do not bend the tube.



Note:

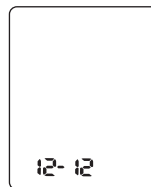
If it is not possible to fit the cuff to your left arm, it can also be placed on the right. However, all measurements should be made using the same arm. In order to prevent improper inflation please avoid compression or restriction of the connection tubing



Setting mode

3. Time setting:

Continue to above step, the screen will display TIME and XX:XX, and keep flashing on the digits of hour, the digit will increase 1 when press button (M) each time, you could choose from 0 to 23. Press button (L) when you confirm the hour, then the digits of minute start to flash, same as the hour setting, each time you press button (M) the digits will keep changing from 00 to 59. Press button (L) when you confirm the minute, then the total setting mode is completed.



4. Unit setting:

Continue to above step, The unit will be changed when press button (M) each time. Press button (L) when you confirm the unit, then it will enter into the user setting mode.



mmHg unit



kPa unit

Proper use of the unit

Measurement

Pre-measurement

- Please keep quiet for 5-10 minutes, and avoid eating, drinking alcohol, smoking, exercising and bathing before taking measurement. All these factors will influence the measurement result.
- Remove any garment that fits closely to your upper arm.
- Always measure on the same arm (normally left) .
- Take measurement regularly at the same time of every day, as blood pressure changes even during the day.

PATIENT position in NORMAL USE, including

- i) comfortably seated,
- ii) legs uncrossed,
- iii) feet flat on the floor,
- iv) back and arm supported,
- v) middle of the CUFF at the level of the right atrium of the heart.

The OPERATOR should sit half a meter beside the PATIENT.

Common factors of wrong measurement

- All efforts by the patient to support their arm can increase blood pressure.
- Make sure you are in a comfortable, relax position and do not activate any of the muscles in the measurement arm during measurement. Use a cushion for support if necessary.
- If the arm artery lies lower or higher than the heart, a false reading will be obtained.

Proper use of the unit

Note:

- Only use clinically approved cuffs!
- A loose cuff or an exposed bladder causes false reading.
- With repeated measurements, blood accumulates in the arm which can lead to false reading.
Consecutive blood pressure measurements should be repeated after 1 minute pause or after the arm has been held up in order to allow the accumulated blood to flow away.
- Relax as much as possible and not talk during the measurement.
- Five min elapses before the first reading is taken.
- Any BLOOD PRESSURE reading can be affected by the measurement site, the position of the PATIENT, exercise, or the PATIENT'S physiologic condition.

The environmental or operational factors can affect the performance of the AUTOMATED SPHYGMOMANOMETER and/or its BLOOD PRESSURE reading, please follow the instruction.