



2 PLUS

Wireless

Upper Arm Blood Pressure Monitor

Instruction Manual
ORIGINAL



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Introduction

- The Equate upper arm blood pressure monitor is designed for ease of use and accuracy. This device will facilitate your daily blood pressure regimen.
- We recommend that you read through this manual carefully before using the device for the first time.

Intended Use

- This device is designed for use on adults, and is not intended for newborns and infants.
- This device is designed for use to operate by yourself in the home healthcare environment to measure blood pressure and pulse rate of people for diagnosis.

FCC Compliance Information

This device complies with Part 15 of 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 operations.

Precautions

- This is a medical device for use by lay person. Please consult your healthcare provider with any questions or concerns you may have regarding your condition.
- If any serious incident occurs in relation to this device, report to its manufacturer and the competent authority in your country.

Introduction

- Precision components are used in the construction of this device. Extremes in temperature, humidity, direct sunlight, shock or dust should be avoided.
- Clean the device and cuff with a dry, soft cloth or a cloth dampened with water and a neutral detergent. Never use alcohol, benzene, thinner or other harsh chemicals to clean the device or cuff.
- Avoid tightly folding the cuff or storing the hose tightly twisted for long periods, as such treatment may shorten the life of the components.
- Take care to avoid accidental strangulation of babies or infants with the hose.
- Do not twist the air hose during measurement. This may cause injury due to continuous cuff pressure.
- Do not excessively bend or squeeze the air hose.
- The device and cuff are not water resistant. Prevent rain, sweat and water from soiling the device and cuff.
- Measurements may be distorted if the device is used close to televisions, microwave ovens, cellular telephones, X-ray or other devices with strong electrical fields.
- Wireless communication devices, such as home networking devices, mobile phones, cordless phones and their base stations, and walkie-talkies can affect this blood pressure monitor. Therefore, a minimum distance of 12" / 30 cm should be kept from such devices.
- When reusing the device, confirm that the device is clean.

Introduction

- Used equipment, parts and batteries are not treated as ordinary household waste, and must be disposed of according to the applicable local regulations.
- Do not modify the device. It may cause accidents or damage to the device.
- To measure blood pressure, the arm must be squeezed by the cuff hard enough to temporarily stop blood flow through the artery. This may cause pain, numbness or a temporary red mark to the arm. This condition will appear especially when measurement is repeated successively. Any pain, numbness, or red marks will disappear with time.
- Measuring blood pressure too frequently may cause harm due to blood flow interference.
- Check that the operation of the device does not result in prolonged impairment of blood circulation, when using the device repeatedly.
- Clinical testing has not been conducted on newborn infants and pregnant woman. Do not use on newborn infants or pregnant woman.
- If you have had a mastectomy or lymph node clearance, please consult a doctor before using the monitor.
- Do not let children use the device by themselves and do not leave the device within the reach of children, it may cause accidents or injury.
- There are small parts that may cause a choking hazard if swallowed by mistake by infants.
- Do not touch the batteries, the DC jack and the patient at the same time. That may result in electrical shock.

Introduction

- When the AC adapter is used, make sure that the AC adapter can be readily removed from the electrical outlet when necessary.
- Unplug the AC adapter when not in use.
- Use of accessories not detailed in this manual may compromise safety.
- Should the battery short-circuit, it may become hot and potentially cause burns.
- Allow the device to adapt to the surrounding environment before use (about one hour).
- When applying the cuff, ensure the arm protector flap is flat against arm to prevent injury to the skin.
- Do not inflate without wrapping the cuff around the upper arm.
- Do not apply the cuff on an arm in which another medical device is attached. The equipment may not function properly.
- People who have a severe circulatory deficit in the arm must consult a doctor before using the device, to avoid medical problems.
- Do not self-diagnose the measurement results and start treatment by yourself. Always consult your doctor for evaluation of the results and treatment.
- Do not apply the cuff on an arm with an unhealed wound.
- Do not apply the cuff on an arm receiving an intravenous drip or blood transfusion. It may cause injury.

Introduction

- Do not use the device where flammable gases such as anesthetic gases are present. It may cause an explosion.
- Do not use the device in highly concentrated oxygen environments, such as a high-pressure oxygen chamber or an oxygen tent. It may cause a fire or explosion.

About 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 millimeters 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.

About Irregular Heartbeat

The blood pressure monitor provides a blood pressure and pulse rate measurement even when an irregular heartbeat occurs. An irregular heartbeat is defined as a heartbeat that varies from the average of all heartbeats during the blood pressure measurement. It is important that you are relaxed, remain still and do not talk during measurements.

Note: We recommend contacting your physician if you see this "♡" indicator frequently.

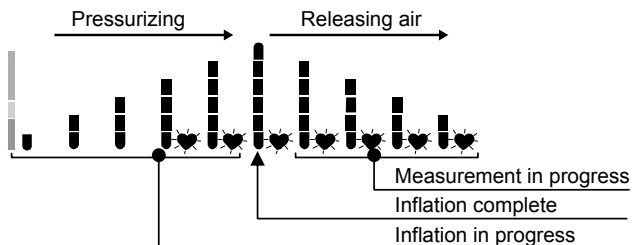
Introduction

Notes for Accurate Measurement

- Sit comfortably on a chair with your feet on the floor and your back straight. Do not cross your legs.
- Place your arm on a table with your palm facing upward and the cuff at the same level as your heart.
- Relax for about five to ten minutes before measurement.
- Remain still and keep quiet during measurement.
- Do not smoke, exercise, or consume anything for at least 30 minutes beforehand.
- This device bases its measurements on the heartbeat. If you have a very weak or irregular heartbeat, the device may have difficulty determining your blood pressure.
- Should the device detect a condition that is abnormal, it will stop the measurement and display an error symbol. Refer to the section “Symbols” for the description of the symbols.
- Try to measure your blood pressure at the same time every day.
- The automatic blood pressure monitor’s performance may be affected by excessive temperature or humidity, or altitude.

Pressure Bar Indicator

The indicator monitors the progress of pressure during measurement.

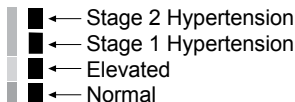


AHA Classification Indicator

Each segment of the bar indicator corresponds to the AHA blood pressure classification.

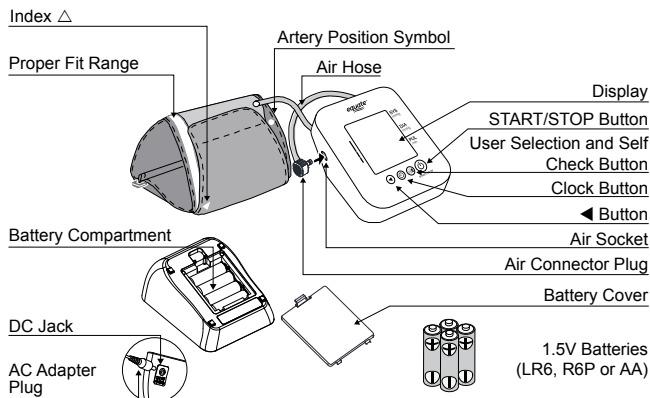
AHA Classification Indicator

■: The indicator displays a segment, based on the current data, corresponding to the AHA classification.

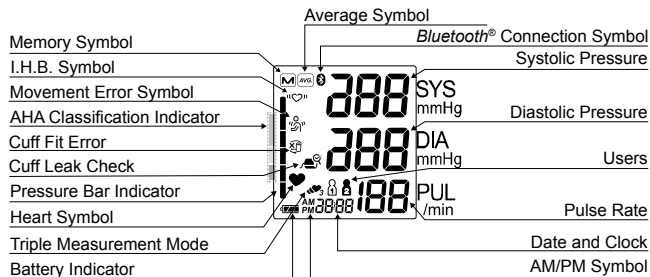


Getting to Know Your Monitor

Parts Identification



Display



Getting to Know Your Monitor

Symbols

Symbols that appear on the display

Symbols	Function/Meaning	Recommended Action
	Appears while measurement is in progress. It blinks when the pulse is detected.	Measurement is in progress. Remain as still as possible.
	Irregular Heartbeat symbol (I.H.B.) appears when an irregular heartbeat is detected. It may light when a very slight vibration like shivering or shaking is detected.	
	Triple Measurement mode takes three consecutive measurements automatically and displays the average values of the three measurements.	

Getting to Know Your Monitor

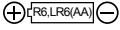
Symbols	Function/Meaning	Recommended Action
	Appears when a body or arm movement is detected.	_____
	Appears during measurement when the cuff is applied loosely.	The reading may yield an incorrect value. Apply the cuff correctly, and take another measurement.
	Previous measurements stored in memory.	_____
	Average data	_____
	FULL BATTERY The battery power indicator during measurement.	_____
	LOW BATTERY The battery power is low when it blinks.	Replace all batteries with new ones when the symbol blinks.
	User1 and User2	_____

Getting to Know Your Monitor

Symbols	Function/Meaning	Recommended Action
AM	Time in the morning	_____
PM	Time in the afternoon	_____
	The device is connecting to the <i>Bluetooth®</i> devices.	_____
P_r	Pairing in progress.	_____
	Cuff leak check	_____
	Cuff leak check failure	Run self check again. If you continue to get errors, please contact customer service.

Getting to Know Your Monitor

Symbols printed on the device case

Symbols	Function/Meaning
	Standby and Turn the device on
SYS	Systolic blood pressure in mmHg
DIA	Diastolic blood pressure in mmHg
PUL/min	Pulse per minute
	Battery installation guide
	Direct current
	Type BF: Device, cuff and tubing are designed to provide special protection against electrical shocks
	Global trade item number
	Serial number
	Bluetooth® address
	Polarity of DC power connector
	Refer to instruction manual/booklet
IP	International protection symbol
	Keep dry
	Clock setting
	Clock adjustment and memory recall
	User selection and self check

Getting to Know Your Monitor

Symbols that are printed on the AC adapter

Symbols	Function/Meaning
	Alternating current
	Direct current
	Polarity of DC power connector
	Class II device
	For indoor use only
	UL/cUL certification device label
	Energy efficiency level VI certification device label
IP	International protection symbol

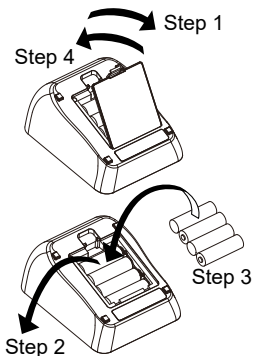
Getting to Know Your Monitor

Symbols printed on the cuff

Symbols	Function/Meaning	Recommended Action
	Artery Position Symbol	Set the ● symbol on the artery of the upper arm or in line with the ring finger on the inside of the arm.
	Index	_____
	Catalog number	_____
	Lot number	_____
	Type BF: applied part	_____
	Proper fit range for the Wide Range cuff.	_____
	Range to use the Small cuff. Under range printed on the Medium cuff and Wide Range cuff.	Use the Small cuff
	Range to use the Large cuff. Over range printed on the Medium cuff and Wide Range cuff.	Use the Large cuff

Installing / Changing the Batteries

1. Remove the battery cover.
2. Remove the used batteries from the battery compartment to change them.
3. Insert new batteries into the battery compartment as shown, taking care that the polarities (+) and (-) are correct. Use only R6P, LR6 or AA batteries.
4. Replace the battery cover.



CAUTION

- Insert the batteries as shown in the battery compartment. If installed incorrectly, the device will not work.
- When  blinks on the display, replace all batteries with new ones. Do not mix old and new batteries. It may shorten the battery life, or cause the device to malfunction. Replace the batteries two seconds or more after the device turns off.
-  does not appear when the batteries are drained.
- The battery life varies with the ambient temperature and may be shorter at low temperatures.

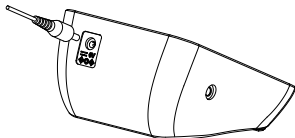
Initial Setup

- Use the specified batteries only. The batteries provided with the device are for testing the device performance and may have a limited life.
- Remove the batteries if the device is not to be used for a long time. The batteries may leak and cause a malfunction.

Connecting the AC Adapter

(purchased separately)

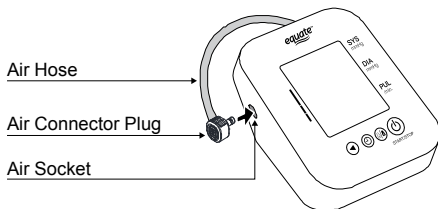
Insert the AC adapter plug into the DC jack. Next, connect the AC adapter to an electrical outlet.



- Use the specified AC adapter. (Refer to Technical Data)
- When disconnecting the AC adapter from the electrical outlet, grasp and pull the AC adapter body out of the outlet.
- When disconnecting the AC adapter plug from the blood pressure monitor, grasp and pull the AC adapter plug out of the monitor.

Connecting the Air Hose

Insert the air connector plug into the air socket firmly.



Setting Date and Time

Set the date and time prior to use.

1. Press the button, the year starts blinking.
2. Select the year using the button. Press the button to set the current year and move to month / day selection. The date can be set anywhere between the years 2025 and 2079.
3. Select the month using the button. Press the button to set the current month and move to day selection.
4. Select the day using the button. Press the button to set the current day and move to hour / minute selection.
5. Select the hour using the button. Press the button to set the current hour and move to minute selection.
6. Select the minute using the button. Press the button to turn the device off.

Note: After three minutes of non-operation, the device will turn off automatically.

Initial Setup

When the clock has not been set, the clock display indicates dashes as shown to the right.

When using the device for the first time, the clock is not adjusted. When the device is disconnected from the power supply, the set date and time will be erased. When the set date and time is erased, please adjust again.

--/--
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The clock of the monitor can sync to the clock of the mobile device during *Bluetooth®* communication.

Triple Measurement Mode

This blood pressure monitor has an optional feature to automatically take three consecutive measurements one minute apart and then provide you with the average. This complies with the American Heart Association's recommended measuring method.

1. After setting the year, month, day and hour, the next mode is the Triple Measurement Mode.
2. Default is off.
3. To turn on, use ◀ button.
4. To turn off again, use ◀ button.
5. After reaching the desired setting, press the ⏵ button.
6. This will end your settings session.

Pairing with a Mobile Device

CAUTION

- In the unlikely event that this monitor causes radio wave interference to a different wireless station, change the location where this monitor is used or stop use immediately.
- The communication distance between this monitor and the mobile device is about 10 m. This distance is reduced by the conditions in the surrounding environment, so be sure to check that the distance is short enough for a connection to be made after measurement is complete.
- Be sure to use in a location where visibility between the two devices that you want to connect is good. The connection distance is reduced by the structure of buildings or other obstructions. In particular, connection may be impossible when devices are used on either side of reinforced concrete.
- Do not use *Bluetooth*® connection in the range of a wireless LAN or other wireless devices, near devices that emit radio waves such as microwaves, in locations where there are many obstructions, or in other locations where signal strength is weak. Doing so may result in frequent loss of connection, very slow communication speeds and errors.

Initial Setup

- In this case, switch off the power supply to the device that is not being used or use the monitor in a different location.
- If the monitor does not connect normally when used near a wireless station or broadcast station, use the monitor in a different location.
- Walmart cannot accept liability for any damages incurred due to impaired operation or data loss, etc that occur through the use of this product.
- This product is not guaranteed to connect to all *Bluetooth*® compatible devices.

Bluetooth® Transmission **Bluetooth®**

Bluetooth® devices carry the *Bluetooth*® logo mark.

To connect with your mobile device – download and install Equate Heart Chart app.



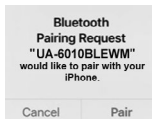
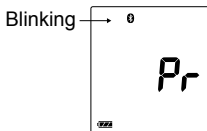
Follow the instructions in the app to connect.

Cautions for Pairing

- Only one device can be paired with this monitor at one time. If the mobile device cannot receive measurement data, try pairing again.
- The monitor is capable of registering 4 mobile devices.
- In case a 5th mobile device is registered, the monitor will delete the oldest mobile device.

Pairing Procedure

1. Turn on *Bluetooth*® settings on your mobile device
2. Press and hold the START/STOP button until “Pr” is displayed, and then release the button. The monitor will be in a state that can be found by the mobile device for about one minute.
3. If “E 10” is displayed or pairing is failed, remove the batteries and try steps 1-3 again.
4. Accept the pairing request on the Equate Heart Chart app.



Initial Setup

Transmitting Temporarily Stored Data

In cases when the mobile device cannot receive measurement data, the measurement data is temporarily stored in the monitor memory. The data stored in the memory is transmitted the next time a connection is successfully made to the mobile device. A total of 90 sets of measurement data can be stored per user. When the amount of data exceeds 90, the oldest data is deleted and the new data is stored.

Time

This monitor has a built-in clock. The date and time that a measurement was taken is included in the measurement data. The built-in clock is automatically adjusted by syncing the clock of a mobile device. Sync of the time is done in the timing *Bluetooth*[®] icon lights up, in the pairing process.

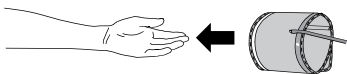
Selecting the Correct Cuff

- Using the correct cuff size is important for an accurate measurement. If the cuff is not the proper size, the measurement may yield an incorrect blood pressure value.
- The arm size is printed on each cuff.
- The index ▲ and proper fit range, on the cuff, tell you if you are applying the correct cuff. Refer to “Applying the Arm Cuff”.
- If the index ▲ points outside of the range, contact customer service.
- The arm cuff is a consumable. If it becomes worn, purchase a new one.

Taking Your Blood Pressure

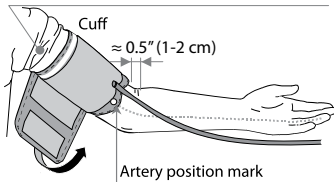
Applying the Arm Cuff

1. Insert arm (preferably the left arm) into cuff as shown in the figure to the right.

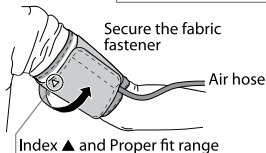


2. Wrap the cuff around the upper arm, about 0.5" (1-2 cm) above the inside of the elbow, as shown in the figure to the right.

Do not roll up shirtsleeve tightly

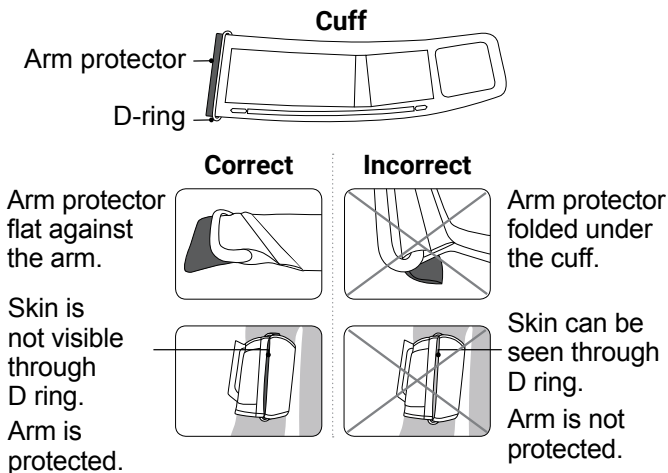


3. Place the cuff directly against the skin, as clothing may cause a faint pulse and result in a measurement error. Constriction of the upper arm, caused by rolling up a shirtsleeve, may prevent accurate measurements.
4. Confirm the arm protector is flat against the arm as shown in the figure below.
5. Confirm that the index ▲ points within the proper fit range.



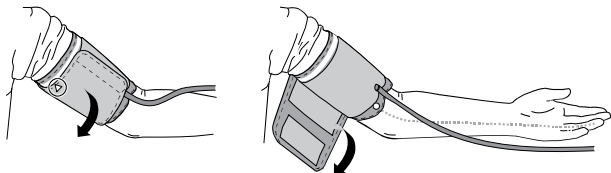
Note: During measurement, it is normal for the cuff to feel very tight. (Do not be alarmed).

Taking Your Blood Pressure



Removing the Arm Cuff

1. Wait for the cuff to deflate
2. Unfasten the Velcro



3. Remove the cuff

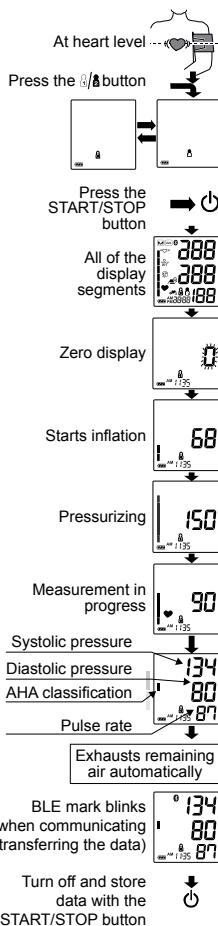


Taking Your Blood Pressure

Normal Measurement

1. Place the cuff on the arm at heart level (preferably the left arm). Sit quietly during measurement.
2. Press the  button. Select a user from user  and user .
3. Press the START/STOP button. All of the display segments are displayed. Zero is displayed blinking briefly. Then the display changes, as indicated in the figure at the right, as the measurement begins. The cuff starts to inflate. It is normal for the cuff to feel very tight. A pressure bar indicator is displayed, as in the figure at the right, during inflation.
4. When inflation is complete, deflation starts automatically and the  blinks, indicating that the measurement is in progress. Once the pulse is detected, the symbol blinks with each pulse beat.

Note: If you wish to stop inflation at any time, press the START/STOP button again.



Taking Your Blood Pressure

Note: If an appropriate pressure is not obtained, the device starts to inflate again automatically.

5. When the measurement is complete, the systolic and diastolic pressure readings and pulse rate are displayed. The cuff exhausts the remaining air and deflates completely. In case the monitor is connected to a mobile device, it's possible to transfer the measurement data to the app, when the measurement is done.
6. Press the START/STOP button again to turn off the power and the measurement data is stored.

Note: This device has an automatic power shut-off function. Allow at least 3 minutes between measurements on the same person.

Triple Measurement Mode

1. Press the START/STOP button. All of the display segments are displayed. Zero (0) is displayed blinking briefly and the first measurement starts.
2. When the measurement is complete, the systolic and diastolic pressure readings and pulse rate are displayed, then a one-minute countdown starts for the second measurement.
3. After one minute, the second measurement starts.
4. When the measurement is complete, the average of the first and second measurements is displayed, then a one-minute countdown starts for the third measurement.

Taking Your Blood Pressure

- After one minute, the third measurement starts.
- When the measurement is complete, the average of the three measurements is displayed and stored in memory.

Notes: During the measurement, the Triple Measurement  3 symbol is displayed.

To cancel the measurement, press the START/STOP button. No data is stored in memory.

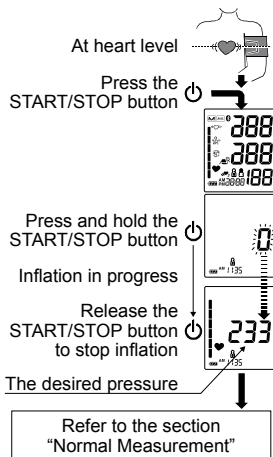
When the cuff fit error symbol appears during the first measurement, cancel the measurement, reapply the cuff correctly and start a new measurement.

After measurement, the average data of the three measurements is stored in memory. No data will be stored, when canceling the measurements, or before completion of the third measurement.

Measurement with the Desired Systolic Pressure

If re-inflation occurs repeatedly, or if your systolic pressure is expected to exceed 230 mmHg, use this procedure.

- Place the cuff on the arm at heart level (preferably the left arm).
- Press the START/STOP button.
- While the zero blinks, press and hold the START/STOP button until a number about 30 to 40



Taking Your Blood Pressure

mmHg higher than your expected systolic pressure appears.

4. When the desired number is reached, release the START/STOP button to start measurement. Then continue to measure your blood pressure as described on the section “Normal Measurement”.

Recalling the Memory Data

The device automatically stores up to 90 x 2 blood pressure and pulse measurements in memory.

Note: when using triple measurement mode, the final measurement average is stored as a single measurement.

Data stored in memory are assigned a data number in the order of the newest to the oldest. The oldest data displays as “no.”. The  symbol in the upper left corner of the display indicates that you are viewing previous data stored in memory.

1. Press the  button.
2. Select the user you want to review the memory for by pressing  the button. Select a user from user  or user .
3. Press the  button. The average of the last three measurements is displayed. (If no data, “0” is displayed. Press the  or START/STOP button to turn device off.)
4. Each time the  button is pressed, the memory data is displayed as follows. Most recent data (ex. no.

Taking Your Blood Pressure

35). Three seconds after the data number displays, the measurement data is displayed.



Last data (ex. no.1).

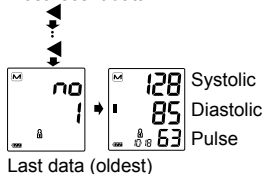
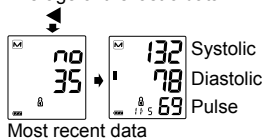
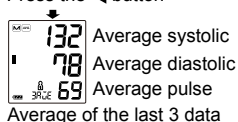
Three seconds after the data number displays, the measurement data is displayed.

5. After the last data is displayed, press the ◀ button to return the average display of the last three measurements.

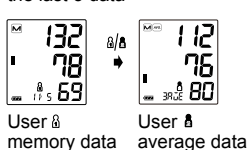
6. Press the START/STOP button to turn the device off. After one minute of non-operation the device will turn off automatically.

7. Each time the A/A button is pressed, the user is changed and the average of the last three measurements for that user is displayed.

Press the ◀ button



Return to average of the last 3 data



Note: If this device stores two measurements, the average of the two measurements is displayed. If this device stores only one measurement, this is displayed.

Taking Your Blood Pressure

Clearing Data

1. Press ◀ button to move to the memory display mode.
2. Select the user you want to delete with ♂/♀ button.
3. Turn off the power pressing START/STOP button.
4. Press and hold ◀ button.
5. Memory icon blinks and the data is deleted.
6. The device power will be turned off automatically.

Cleaning and Maintenance

Cleaning your Monitor

- Clean the monitor and cuff with a dry, soft cloth or a cloth dampened with water and a neutral detergent.
- Do not use alcohol, benzine, thinner or other harsh chemicals.

Maintenance

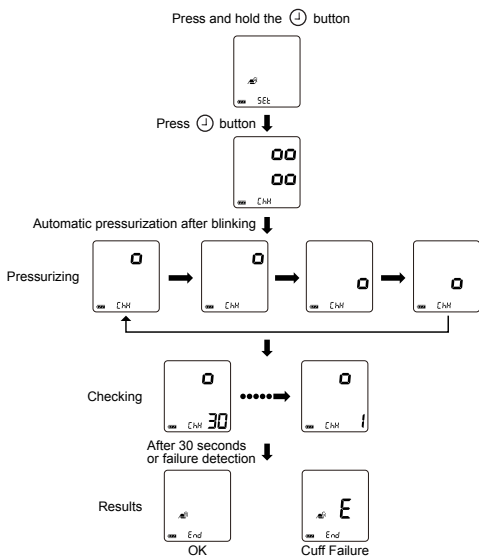
Do not open the device. It uses delicate electrical components and an intricate air unit that could be damaged. If you cannot fix the problem using the troubleshooting instructions, contact customer service.

Cleaning and Maintenance

Self Check Mode

1. Press and hold  button until cuff leak check marks blink.
2. Place the cuff around a rigid cylinder that is longer than the width of the cuff.
3. Press the  button again to start checking.
4. Check the results displayed.

Note: An appropriately sized rigid cylinder depends on Cuff. Please refer to “Selecting the Correct Cuff Size”. UA-291A can’t be used with Self Check Mode. Do not use the fragile objects for cuff leak check such as glass as it may break during inflation and cause injury.



Troubleshooting

Problem	Possible Reason	Recommended Action
Nothing appears on the display, even when the power is turned on.	Batteries are drained.	Replace all batteries with new ones.
	Battery terminals are not in the correct position.	Reinstall the batteries with negative and positive terminals matching those indicated on the battery compartment.
The cuff does not inflate.	Battery voltage is too low.  blinks. If the batteries are drained completely, the symbol does not appear.	Replace all batteries with new ones.
Self Check Failure		Even if blood pressure measurement is possible, the check may fail. If checks are failed frequently, contact customer service.

Troubleshooting

Problem	Possible Reason	Recommended Action
The device does not measure. Readings are too high or too low.	The cuff is not applied properly.	Apply the cuff correctly.
	You moved your arm or body during measurement.	Make sure you remain still and quiet during measurement.
	The cuff position is not correct.	Sit comfortably and still. Place your arm on a table with your palm facing upward and the cuff at the same level as your heart.
	_____	If you have a very weak or irregular heartbeat, the device may have difficulty in determining your blood pressure.

Troubleshooting

Problem	Possible Reason	Recommended Action
Other	The value is different from that measured at a clinic or doctor's office.	At a clinic or doctor's office, apprehension may cause an elevated measurement. Home measurement reduces the effects of outside influences on blood pressure measurements & supplements the doctor's measurements.
		Remove the batteries. Place them back properly and take another measurement.

Note: If the actions described above do not solve the problem, contact customer service. Do not attempt to open or repair this product, as any attempt to do so will make your warranty invalid.

Troubleshooting

Symbols	Function/Meaning	Recommended Action
	Device internal error	Remove the Batteries and press the START/ STOP button, and then install the batteries again. If the error still appears, contact customer service.
		
 or 	Unstable blood pressure due to movement during measurement.	Take another measurement. Remain still during measurement.
	The systolic and diastolic values are within 10 mmHg of each other.	Apply the cuff correctly, and take another measurement.
	The pressure value did not increase during the inflation.	
	The cuff is not applied correctly.	
	PUL DISPLAY ERROR The pulse is not detected correctly.	

Troubleshooting

Symbols	Function/Meaning	Recommended Action
	Pairing has not been performed correctly.	Remove batteries, press START, reinstall the batteries. Try pairing again.

Optional Accessories

Accessory AC adapter

This optional adapter connects the device to a power source. Please contact your local A&D dealer for purchasing. The AC adapter is required to be inspected or replaced periodically.

Accessories (sold separately)

Part Number	Description	Specification
UA-420A	Wide Range Cuff	8.6-16.5" (22-42 cm)
UA-291A	Large Cuff	12.2-17.7" (31-45 cm)
UA-290A	Medium Cuff	9.0-14.6" (23-37 cm)
UA-289A	Small Cuff	6.3-9.4" (16-24 cm)
UA-372A	Preformed Wide Range Cuff	8.6-16.5" (22-42 cm)
<i>Arm size: The circumference at the biceps.</i>		
TB-304	AC Adapter	Input: 120V~60Hz 0.15A Output: 6V  500mA      IP21

Warranty

Product	Warranty Term
Monitor	5 year
Cuff	2 year

Limited Warranty:

This warranty warrants to the first purchaser (“You”) that the product You purchased (the “Product”) will be free from defects in material, workmanship and design for the applicable Warranty Term stated above from the date You purchased the Product under normal use. This Limited Warranty is personal to You and is not transferable. If the Product is defective, then You return the Product in accordance with the procedure set forth below. This warranty obligation is limited to the repair or replacement, at our option, of the defective Product that has been returned by You within the warranty period. Such repair or replacement will be at no charge to You. The repaired or replacement Product is warranted here-under for the longer of the remainder of the original warranty period or 90 days from the date of shipment of the repaired or replacement Product.

To obtain a warranty service, please contact us at 1-888-726-9966 for return address, shipping and handling fee, and other instructions for processing warranty. Please ensure you have satisfactory proof of the date of Your purchase and a description of the

Warranty

defect. Returns will not be accepted unless a Return Material Authorization (RMA) Number has been issued from our Customer Service Representative.

This Limited Warranty does not cover, and we will not be liable for (i) any shipment damage, (ii) any damage or defect due to misuse, abuse, failure to use reasonable care, failure to follow written instructions enclosed with the Product, accident, subjecting the Product to any voltage other than the specified voltage, improper environmental conditions, or modification, alteration or repair by anyone other than persons authorized, or (iii) expendable or consumable components.

THIS LIMITED WARRANTY IS THE ONLY WARRANTY PROVIDED; THERE ARE NO OTHER EXPRESS WARRANTIES.

The above remedy of repair or replacement is your only and exclusive remedy. IN NO EVENT SHALL WE BE LIABLE FOR ANY DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS, LOST INFORMATION OR REPLACEMENT COSTS, ARISING OUT OF YOUR USE OF OR INABILITY TO USE THE PRODUCT, INCLUDING, WITHOUT LIMITATION, ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some states do not allow the exclusion

Warranty

of incidental or consequential damages, so that the above exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that may vary from state to state.

No distributor, dealer or other party is authorized to make any warranty or to modify this warranty, or to assume any liability with respect to its products.



Satisfaction Guaranteed

Satisfaction guaranteed – Or we'll replace it or give you your money back. For questions or comments or to report an undesired reaction or side effect, please call 1-888-287-1915.

Technical Data

Model	UA-6010BLEWM
Measurement method	Oscillometric
Measurement range	Pressure: 0 - 299 mmHg Systolic pressure: 60 - 279 mmHg Diastolic pressure: 40 - 200 mmHg Pulse: 40 - 180 beats/minute
Measurement Accuracy	Static Pressure: ± 3 mmHg Pulse: ± 5 % Clinical Test: This product passed clinical validation testing under the ISO 81060-2:2018/AMD 1:2020 standard.* *The accuracy requirements of ISO 81060-2:2018/AMD 1:2020 are defined as a mean difference within ± 5 mmHg and a standard deviation within 8 mmHg. All results passed the standard requirements.
Power Supply	4 x 1.5V batteries (R6P, LR6 or AA) or 120 volt AC adapter (TB-304)
Number of measurements	Approx. 700 LR6 or AA (alkaline batteries) Approx. 200 R6P (manganese batteries) With pressure value 180 mmHg, room temperature 23 °C.
Classification	Internally powered ME equipment (Supplied by batteries) /Class II (Supplied by adapter) Continuous operation mode

Technical Data

EMD	IEC 60601-1-2: 2014+A1: 2020
Wireless Communication	Bluetooth: Ver.5.1LE BLP Frequency band: 2402 MHz to 2480 MHz Maximum RF output power: < 3mW Modulation: GFSK Supported Data: Systolic Pressure, Diastolic Pressure, Pulse Rate Communication distance: About 10 m (This distance is reduced by the conditions in the surrounding environment) Paired device: 4 devices
Memory	90 measurements per user
Operating conditions	+10 to +40 °C/15 to 85 %RH/800 to 1060 hPa
Transport/Storage conditions	- 20 to +60 °C/10 to 95 %RH/700 to 1060 hPa
Cuff Circumference	UA-420WM: 8.6-16.5" (22 to 42 cm)
Dimensions	Approx. 4.33"[W]×2.87"[H]×5.47"[D] (110[W]×73[H]×139[D] mm)
Weight	Approx. 10.58oz (300g), excluding the batteries
Ingress protection	Device: IP20
Applied part	Cuff: Type BF 

Technical Data

Useful life	Device: 5 years (when used six times a day) Cuff: 2 years (when used six times a day) or 10,000 total uses. AC adapter: 5 years (when used six times a day)
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Note: Specifications are subject to change without prior notice. IP classification is the degrees of protection provided by enclosures in accordance with IEC 60529. This device is protected against solid foreign objects of 12 mm diameter and greater such as a finger. This device is not protected against water.

EMD Technical Data

Battery-operated or AC Adapter-operated Blood Pressure Monitor

Medical Electrical Equipment needs special precautions regarding EMD and needs to be installed and put into service according to the EMD information provided in the following.

Portable and mobile RF communication equipment (e.g. cell phones) can affect Medical Electrical Equipment.

The use of accessories and cables other than those specified may result in increased emissions or decreased immunity of the unit.

Table 1 - EMISSION Limits -

Phenomenon	Compliance
Conducted and radiated RF EMISSION CISPR 11	Group 1, Class B
Harmonic distortion IEC 61000-3-2	Class A
Voltage fluctuations and flicker IEC 61000-3-3	Compliance

Table 2 - IMMUNITY TEST LEVELS : Enclosure Port -

Phenomenon	IMMUNITY TEST LEVELS
Electrostatic discharge IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air
Radiated RF EM fields IEC 61000-4-3	10 V/m 80 MHz - 2.7 GHz 80 % AM at 1 kHz
Proximity fields from RF wireless communications equipment IEC 61000-4-3	See table 4

Technical Data

Rated power frequency magnetic fields IEC 61000-4-8	30 A/m 50 Hz or 60 Hz
proximity magnetic fields IEC 61000-4-39	See table 5

Table 3 - IMMUNITY TEST LEVELS : Input a.c. power Port -

Phenomenon	IMMUNITY TEST LEVELS
Electrical fast transients / bursts IEC 61000-4-4	±2 kV 100 kHz repetition frequency
Surges Line-to-line IEC 61000-4-5	±0.5 kV, ±1 kV
Conducted disturbances induced by RF fields IEC 61000-4-6	3 V 0.15 MHz - 80 MHz 6 V in ISM and amateur radio bands between 0.15 MHz and 80 MHz 80 % AM at 1 kHz
Voltage dips IEC 61000-4-11	0 % U_T ; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315°
	0 % U_T ; 1 cycle and 70 % U_T ; 25/30 cycle Single phase: at 0°
Voltage interruption IEC 61000-4-11	0% U_T ; 250/300 cycle
NOTE U_T is the AC mains voltage prior to application of the test level.	

Table 4 - Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment -

Test frequency (MHz)	Band (MHz)	Service	Modulation	IMMUNITY TEST LEVEL(V/m)
385	380 - 390	TETRA 400	Pulse modulation 18 Hz	27
450	430 - 470	GMRS 460 FRS 460	FM ±5 kHz deviation 1 kHz sine	28

Technical Data

Test frequency (MHz)	Band (MHz)	Service	Modulation	IMMUNITY TEST LEVEL(V/m)
710	704 - 787	LTE Band 13, 17	Pulse modulation 217 Hz	9
745				
780				
810	800 - 960	GSM 800/900 TETRA 800 iDEN 820 CDMA 850 LTE Band 5	Pulse modulation 18 Hz	28
870				
930				
1720	1700 - 1990	GSM 1800 CDMA 1900 GSM 1900 DECT LTE Band 1, 3, 4, 25 UMTS	Pulse modulation 217 Hz	28
1845				
1970				
2450	2400 - 2570	Bluetooth WLAN 802.11 b/g/n RFID 2450 LTE Band 7	Pulse modulation 217 Hz	28
5240	5100 - 5800	WLAN 802.11 a/n	Pulse modulation 217 Hz	9
5500				
5785				

Table 5 - Test specifications for ENCLOSURE PORT IMMUNITY to proximity magnetic fields-

Test frequency	Modulation	IMMUNITY TEST LEVEL(A/m)
30 kHz	CW	8
134.2 kHz	Pulse modulation 2.1 kHz	65
13.56 MHz	Pulse modulation 50 kHz	7.5

Technical Data

FCC CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in KDB publication 447498 D04 v01 since this equipment has very low levels of RF energy.

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

Technical Data

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.

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