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› AQESO Blood Pressure Monitor Model U80A User Manual

AQESO U80A

AQESO Blood Pressure Monitor

MODEL U80A USER MANUAL

Accurate Digital Automatic BP Machine for Home Use

1. Introduction

Thank you for choosing the AQESO Blood Pressure Monitor Model U80A. This device is designed for accurate and reliable blood pressure measurement at home. Please read this manual thoroughly before use to ensure proper operation and to obtain the most accurate readings.



Image 1.1: AQESO Blood Pressure Monitor Model U80A with its two included cuffs.

2. Package Contents

Verify that all items are present in your package:

- 1 x AQESO Blood Pressure Monitor (Model U80A)
- 1 x Medium/Large Cuff (9-17 inches)
- 1 x Extra Large Cuff (13-21 inches)
- 1 x Carrying Case
- 4 x AAA Batteries
- 1 x USB Type-C Cable
- 1 x User Manual (this document)

WHAT'S INSIDE



Image 2.1: All components included in the AQESO Blood Pressure Monitor kit.

3. Setup

3.1. Battery Installation

1. Open the battery compartment cover on the back of the monitor.
2. Insert the 4 AAA batteries, ensuring correct polarity (+ and -).
3. Close the battery compartment cover securely.

Alternatively, the device can be powered via the USB Type-C cable (USB adapter not included).



Image 3.1: Power options for the monitor, including battery compartment and USB-C port.

3.2. Cuff Attachment and Selection

Select the appropriate cuff size for your upper arm. The monitor includes two cuffs: a Medium/Large cuff (9-17 inches) and an Extra Large cuff (13-21 inches).

- **Measure your arm circumference:** Use a cloth tape measure at the midpoint between your elbow and shoulder.
- **Choose the correct cuff:** The cuff should fit snugly but not too tightly. Incorrect cuff size can lead to inaccurate readings.

SIZE MATTERS

Cuff Size Wrong Results In Wrong Readings

Cuff Too Small



Falsely High Reading

Cuff Too Large

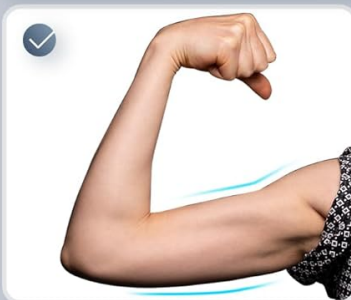


Falsely Low Reading

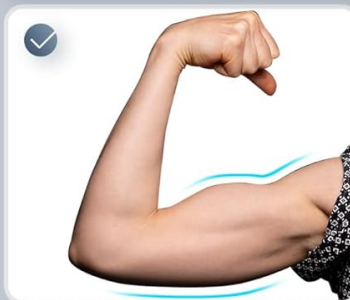


AQESO Wide-Range Cuffs Solution

Medium/Standard




Large



Extra Large



Image 3.2: Importance of correct cuff size for accurate measurements.



HOW TO CHOOSE THE CORRECT SIZE CUFF ?

Arm Circumference

Cuff Size	Arm Circumference Range
Standard/Medium	9"-17"
X-Large	13"-21"

- The recommended ideal cuff length is above 80% of the user's arm circumference. AQESO's wide-range cuffs solution can fit most arm sizes.

Image 3.3: Guide on how to choose the correct cuff size.

Connect the air tube of the selected cuff to the air jack on the side of the monitor.

3.3. User Mode Selection

The monitor supports up to 3 users, each with 199 memory slots. To select a user:

- Press the **User Selection** button (icon with multiple people) to cycle through User 1, User 2, and User 3.
- The selected user icon will be displayed on the screen.



Image 3.4: The monitor supports up to 3 users for individual tracking.

4. Operating Instructions

4.1. Preparation for Measurement

For accurate readings, follow these guidelines:

- **Rest:** Sit quietly for at least 5 minutes before measuring.
- **Position:** Sit upright with your back supported. Keep your feet flat on the floor, uncrossed.
- **Arm Placement:** Place your arm on a table so the cuff is at heart level.
- **Cuff Placement:** Wrap the cuff directly on your bare upper arm, 2-3 cm (about 1 inch) above the elbow. The air tube should run down the center of your arm, over the brachial artery. Do not wrap it too tight or too loose.
- **Avoid:** Talking or moving during the measurement.

EASY TO USE, EASY TO READ

One-button operation, 5-inch backlit screen, and 30° tilt design for easy reading.



Image 4.1: Proper posture and cuff placement for accurate blood pressure measurement.

4.2. Taking a Measurement

1. Ensure the cuff is correctly applied and the air tube is connected.
2. Select your user profile (if applicable).
3. Press the **START/STOP** button. The cuff will automatically inflate.
4. Remain still and silent during the measurement.
5. Once the measurement is complete, your Systolic (SYS), Diastolic (DIA), and Pulse (PUL) readings will be displayed on the 5-inch LED screen.
6. Press the **START/STOP** button again to turn off the monitor, or it will auto-power off after 3 minutes of inactivity.

4.3. Understanding Readings

The monitor displays your systolic pressure, diastolic pressure, and pulse rate. It also includes a WHO (World Health Organization) classification indicator, which uses a color-coded bar on the side of the display to visually indicate your blood pressure level (e.g., green for normal, yellow for elevated, red for high). The device also features pulse detection.



Image 4.2: The large 5-inch LED display provides clear and easy-to-read results.

4.4. Memory Function

The monitor automatically stores up to 199 readings for each of the 3 users. To view past readings:

- Press the **MEM** button to recall stored measurements.
- Use the **User Selection** button to navigate through the stored readings for the current user.
- The monitor can also calculate the average of the last 3 results.

5. Maintenance

5.1. Cleaning

- Clean the monitor and cuff with a soft, dry cloth.
- Do not use abrasive cleaners or immerse the device in water.

5.2. Storage

- Store the device in its carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.
- Remove batteries if the device will not be used for an extended period.

6. Troubleshooting

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inaccurate Readings	Incorrect cuff size or placement, movement/talking during measurement, improper posture.	Ensure correct cuff size (9-17" M/L, 13-21" XL) and placement (1 inch above elbow, over artery). Remain still and silent. Sit with back supported, feet flat.
Monitor does not power on	Dead batteries, incorrect battery installation, power cable issue.	Replace batteries, check polarity. Ensure USB Type-C cable is properly connected (if using).
Cuff does not inflate	Air tube disconnected, cuff leak.	Check that the air tube is securely connected to both the cuff and the monitor. Inspect cuff for damage.

Best Practices and Factors That Can Impact Accuracy

Best Practices for BP Measurement	Common Mistakes to Avoid	Impact of Improper Practice on Systolic/Diastolic (mmHg)
Appropriate cuff size	Cuff too small	10/10 
	Cuff too large	-5/-5 
Sit quietly	Talking or moving during	10/10 
Feet Flat on floor	Crossing or dangling legs	8/8 
Cuff is placed on an uncovered arm	Cuff over clothing	5/50 
Sit with back supported	Sitting upright no support	10/12 

Image 6.1: Factors that can impact the accuracy of blood pressure measurements.

7. Specifications

Feature	Detail
Model	U80A
Display	5-inch LED Digital Display
Cuff Size	Medium/Large 9"-17", X-Large 13"-21"
Measuring Range	0-299 mmHg
Measuring Resolution	1 mmHg
Accuracy (Pressure)	Within 3 mmHg
Accuracy (Pulse)	±5% of Reading
Power Source	4 x AAA Batteries (included) or 5V 1000mAh USB Type-C
Auto Power-off	3 Minutes
Measuring Method	Oscillometric Method
Memory Storage	199 readings x 3 users
Supported Users	3 Users
Product Dimensions	4.1 x 3.8 x 2.1 inches
Weight	1.46 Pounds
Manufacturer	Shenzhen Urion Technology Co., Ltd.

Technical Specification			
Model	U80A	Measuring Resolution	1 mmHg
Display	5 Inches LED Digital Display	Accuracy	<ul style="list-style-type: none"> • Pressure within ± 3 mmHg • Pulse $\pm 5\%$ of Reading
Cuff Size	<ul style="list-style-type: none"> • Medium/Large 9"-17" • X-Large Cuff 13"-21" 	Power Source	<ul style="list-style-type: none"> • 4 * AAA Battery (Included) • 5V 1000mAh USB Type-C
Main Unit Weight & Size	<ul style="list-style-type: none"> • ~ 8.3oz • 4.88 * 3.74 * 2.05 inches 	Auto Power-off	3 Minutes
Pressure Sensor	Resistive	Measuring Method	Oscillometric Method
Measuring Range	0-299 mmHg	Memory Storage	199*3
Blood Pressure Display Range	< 300 mmHg	Supported Users	3 Users

Image 7.1: Detailed technical specifications for Model U80A.

8. Important Safety Information

- This device is intended for home use and is not a substitute for professional medical advice or treatment.
- Consult your physician for interpretation of blood pressure readings. Self-diagnosis and treatment based on measurement results can be dangerous.
- Do not use this device on infants or individuals who cannot express consent.
- Keep out of reach of children.
- Do not use the device in a moving vehicle.

9. Warranty and Support

For warranty information or technical support, please contact the manufacturer directly. Refer to the packaging or the official AQESO website for contact details.