Wrist Digital Blood Pressure Monitor

Model UB-533

Instruction Manual
Original

Manuel d’instructions
Traduction

Manual de Instrucciones
Traducción

Manuale di Istruzioni
Traduzione

使用手册
翻譯
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Dear Customers

Congratulations on purchasing a state-of-the-art A&D blood pressure monitor, one of the most advanced monitors available today. 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.**

Preliminary Remarks

- This device conforms to the European Directive 93/42 EEC for Medical Products. This is made evident by the mark of conformity. (0123: The reference number to the involved notified body)
- The device is designed for use on adults only, not newborns or infants.
- Environment for use. The device is for use in the home healthcare environment.
- This device is designed to measure blood pressure and pulse rate of people for diagnosis.

Precautions

- 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 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.
- Avoid tightly folding the cuff for long periods, as such treatment may shorten the life of the components.
- The device is not water resistant. Prevent rain, sweat and water from soiling the device.
- 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.
- Used equipment, parts and batteries are not treated as ordinary household waste, and must be disposed of according to the applicable local regulations.
- When reusing the device, confirm that the device is clean.
Do not modify the device. It may cause accidents or damage to the device.

To measure blood pressure, the wrist 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 wrist. This condition will appear especially when measurement is repeated successively. Any pain, numbness, or red marks will disappear with time.

Wireless communication device, such as home networking devices, mobile phones, cordless phones and their base stations, walkie-talkies can affect this blood pressure monitor. Therefore, a minimum distance of 3.3 meters should be kept from such devices.

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.

If you have had a mastectomy, please consult a doctor before using the device.

Do not let children use the device by themselves and do not use the device in a place within the reach of infants.

There are small parts that may cause a choking hazard if swallowed by mistake by infants.

**Contraindications**

The following are precautions for proper use of the device.

- Do not apply the device to a wrist with other medical electrical equipment 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 device on a wrist with an unhealed wound.
- Do not apply the device on an arm receiving an intravenous drip or blood transfusion. It may cause injury or accidents.
- 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.
Parts Identification

Display

- button (average, memory and change of preset parameters)

@@ SET button (user selection and clock)

START button

Battery cover

Carrying case

Display

- Alkaline batteries (LR03 or AAA)

- Cuff

- SET button

- Battery cover

- Cuff Fitt Error Symbol

- Movement Error Symbol

- Heart mark

- User 1 and User 2

- Battery indicator

- Systolic pressure

- Diastolic pressure

- Correct Position Guidance (C.P.G.) indicator

- Irregular Heartbeat (I.H.B.) symbol

- Pulse rate

- % IHB

- Date & clock display

- AM / PM mark

- WHO classification indicator and Pressure bar indicator

- MEMOY

- Average

- User 1 and User 2
# Symbols

## Symbols that are printed on the device case

<table>
<thead>
<tr>
<th>Symbols</th>
<th>Function / Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Standby and Turn the device on" /></td>
<td>Standby and Turn the device on</td>
</tr>
<tr>
<td><img src="image" alt="Battery installation guide" /></td>
<td>Battery installation guide</td>
</tr>
<tr>
<td><img src="image" alt="Direct current" /></td>
<td>Direct current</td>
</tr>
<tr>
<td>SN</td>
<td>Serial number</td>
</tr>
<tr>
<td><img src="image" alt="Date of manufacture" /></td>
<td>Date of manufacture</td>
</tr>
<tr>
<td><img src="image" alt="Type BF: Device and cuff are designed to provide special protection against electrical shocks." /></td>
<td>Type BF: Device and cuff are designed to provide special protection against electrical shocks.</td>
</tr>
<tr>
<td><img src="image" alt="EC directive medical device label" /></td>
<td>EC directive medical device label</td>
</tr>
<tr>
<td><img src="image" alt="International protection symbol" /></td>
<td>International protection symbol</td>
</tr>
<tr>
<td><img src="image" alt="WEEE label" /></td>
<td>WEEE label</td>
</tr>
<tr>
<td><img src="image" alt="Manufacturer" /></td>
<td>Manufacturer</td>
</tr>
<tr>
<td><img src="image" alt="EU-representative" /></td>
<td>EU-representative</td>
</tr>
<tr>
<td><img src="image" alt="Refer to instruction manual / booklet" /></td>
<td>Refer to instruction manual / booklet</td>
</tr>
<tr>
<td><img src="image" alt="Keep dry" /></td>
<td>Keep dry</td>
</tr>
</tbody>
</table>
## Symbols that appear on the display

<table>
<thead>
<tr>
<th>Symbols</th>
<th>Function / Meaning / Recommended Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>💔</td>
<td>The heart mark appears while measurement is in progress. It blinks when the pulse is detected. Remain as still as possible.</td>
</tr>
<tr>
<td>🌘</td>
<td>Irregular Heartbeat (I.H.B.) symbol appears when an irregular heartbeat is detected. It may light when a very slight vibration like shivering or shaking is detected.</td>
</tr>
<tr>
<td>🐳</td>
<td>Appears when a body or arm movement is detected. The reading may yield an incorrect value. Take another measurement. Remain still during measurement.</td>
</tr>
<tr>
<td>🩹</td>
<td>Appears during measurement when the cuff is attached loosely. The reading may yield an incorrect value. Apply the cuff correctly, and take another measurement.</td>
</tr>
<tr>
<td><img src="chart.png" alt="Chart" /></td>
<td>Deleted rate of IHB in memory [%IHB=\frac{\text{Number of detected IHBs in memory}}{\text{Total number}} \times 100%]</td>
</tr>
<tr>
<td>🟢 🟢</td>
<td>User 1 and user 2</td>
</tr>
</tbody>
</table>
## Symbols

<table>
<thead>
<tr>
<th>Symbols</th>
<th>Function / Meaning</th>
<th>Recommended Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>Previous measurements stored in MEMORY</td>
<td></td>
</tr>
<tr>
<td>avg</td>
<td>Average data</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FULL BATTERY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The battery power indicator during measurement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LOW BATTERY</td>
<td>Replace all batteries with new ones when the indicator blinks.</td>
</tr>
<tr>
<td></td>
<td>The battery is low when it blinks</td>
<td></td>
</tr>
<tr>
<td>( \varepsilon_1 ) or ( \varepsilon_2 )</td>
<td>Unstable blood pressure due to movement during measurement</td>
<td>Take another measurement. Remain still during measurement.</td>
</tr>
<tr>
<td></td>
<td>The systolic and diastolic values are within 10 mmHg of each other.</td>
<td></td>
</tr>
<tr>
<td>( \varepsilon_3 )</td>
<td>The pressure value did not increase during inflation.</td>
<td>Apply the cuff correctly, and take another measurement.</td>
</tr>
<tr>
<td></td>
<td>The cuff is not applied correctly.</td>
<td></td>
</tr>
<tr>
<td>( \varepsilon_4 )</td>
<td>PUL. DISPLAY ERROR</td>
<td>Remove the batteries and press the ([\text{START}]) button, and then install the batteries again. If the error still appears, contact the dealer.</td>
</tr>
<tr>
<td>( \varepsilon_5 )</td>
<td>Blood pressure monitor internal error</td>
<td></td>
</tr>
<tr>
<td>SIS</td>
<td>Systolic blood pressure in mmHg</td>
<td></td>
</tr>
<tr>
<td>DIA</td>
<td>Diastolic blood pressure in mmHg</td>
<td></td>
</tr>
<tr>
<td>PUL/min</td>
<td>Pulse per minute</td>
<td></td>
</tr>
<tr>
<td>AM</td>
<td>Data taken between 4:00 and 9:59</td>
<td></td>
</tr>
<tr>
<td>PM</td>
<td>Data taken between 18:00 and 1:59</td>
<td></td>
</tr>
</tbody>
</table>
Using the Monitor

1. Installing / Changing the Batteries

1. Remove the battery cover.

2. Remove the used batteries and insert new batteries into the battery compartment as shown, taking care that the polarities (+ and −) are correct. Use only LR03 or AAA batteries.

3. Attach the battery cover.

⚠️ CAUTIONS

- Insert the batteries as shown in the battery compartment. If installed incorrectly, the device will not work.
- When (LOW BATTERY mark) 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.
- (LOW BATTERY mark) does not appear when the batteries are drained.
- The battery life varies with the ambient temperature and may be shorter at low temperatures.
- Use the specified batteries only. The batteries provided with the device are for testing monitor performance and may have a limited life.
- Remove the batteries if the device is not to be used for a long period of time. The batteries may leak and cause a malfunction.
- When removing the batteries, preset parameters (of clock, user and my C.P.G.) are reset.
Using the Monitor

2. Selecting a User
1. Press the \text{SET} button when turning off the device. The indicator \(\text{\textbullet}\) or \(\text{\textbullet}\) is blinking.
2. Select a user from user \(\text{\textbullet}\) and user \(\text{\textbullet}\) using the \text{SET} button.
   Press the \text{START} button to turn off the device.
   After three minutes of non-operation, the device will turn off automatically.

3. Adjusting the Built-in Clock Before Use
1. Press and hold the \text{SET} button until the year starts blinking.
2. Select the year using the \(\text{\textbullet}\) button.
   Press the \text{SET} button to set the current year and move to month/day selection.
   The date can be set anywhere between the years 2010 and 2059.
3. Select the month using the \(\text{\textbullet}\) button.
   Press the \text{SET} button to set the current month and move to day selection.
4. Select the day using the \(\text{\textbullet}\) button.
   Press the \text{SET} button to set the current day and move to hour/minute selection.
5. Select the hour using the \(\text{\textbullet}\) button.
   Press the \text{SET} button to set the current hour and move to minute selection.
6. Select the minute using the \(\text{\textbullet}\) button.
   Press the \text{SET} button to proceed to "6. The C.P.G. Function Switch".

   - Holding down the \(\text{\textbullet}\) button will change the value continuously.
   - Pressing the \text{START} button will turn the device off anytime.

Notes: After three minutes of non-operation, the device will turn off automatically.
When the clock has not been set, \(\text{-/-/-}\) is indicated for the clock display.
When removing the batteries, preset parameters (of clock, user and my C.P.G.) are reset.
4. Applying the Cuff
1. Wrap the cuff around your wrist about 1 cm above your hand as shown in the figure at the right.
2. Fasten the cuff tightly using the Velcro strip.
Note: For proper measurements, fasten the cuff tightly and measure on a bare wrist.

5. How to Take Accurate Measurements
For the most accurate blood pressure measurement:
- Remain still and keep quiet during measurement.
- Sit down in a comfortable position. Place your elbow on a table. Raise your hand so that the cuff is at the same level as your heart.
- Relax for about five to ten minutes before measurement. If you are excited or depressed by emotional stress, the measurement will reflect this stress as a higher (or lower) than normal blood pressure reading and the pulse reading will usually be faster than normal.
- Try to measure your blood pressure at about the same time every day.
- An individual's blood pressure varies constantly, depending on what they are doing, what they have eaten and what they drink can have a very strong and rapid effect on your blood pressure.
- Do not measure immediately after physical exercise or a bath. Rest for twenty or thirty minutes before taking the measurement.
- Do not cross your legs. Keep your feet flat on the floor and straighten your back.
- 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. See page 7 for the description of symbols.
- This blood pressure monitor is intended for use by adults only. Consult with your physician before using this device on a child. A child should not use this device unattended.
6. The C.P.G. Function Switch

- Refer to page 18 for the C.P.G. function that will indicate the proper angle so that the height of the cuff is the same level as your heart.

1. After step 6 in page 9, press the ▼ button to select either "on" or "off" concerning the C.P.G. function.
2. Press the [SET] button to store the selection.
3. If you do not use my C.P.G. function, press [START] button to turn off. Proceed to "8. Measurement".
   - If you use my C.P.G. function, proceed to "7. Selecting the C.P.G. and my C.P.G.".

7. Selecting the C.P.G. and my C.P.G.

- You can select an indicator either the C.P.G. function or my C.P.G. .
- Preset a proper posture (wrist angle) in memory if you use the my C.P.G. .

1. Adjust and keep the height of the blood pressure monitor to the same level as your heart using your wrist angle.
2. Select an indicator using the ▼ button.
   - Indicator ➤ ➤ The C.P.G. function is used. (my C.P.G. function : OFF )
   - Indicator ➤ ➤ my C.P.G. function is ON and the current angle is stored when switched to the indicator ▼. Proceed to step 3.
3. Press the [START] button to turn off the device.
Note:  
- When removing the batteries, preset parameters (of clock, user and my C.P.G.) are reset.
- Select a user from user 1 and user 2 using the [SET] button.

8. Measurement
   During measurement, it is normal for the cuff to feel very tight.

9. After Measurement
   While readings are displayed, if you press the [START] button to turn the device off, new readings are stored in memory.
   While readings are displayed, if you press the [STOP] button to turn the device off, new readings are not stored.
   Remove the cuff and record your data.

Notes: The device is provided with an automatic power shut-off function which stores the current data in the memory and turns the device off automatically one minute after measurement. Allow at least three minutes between measurements on the same person.
Measurements

Note: The UB–533, once used, will provide an inflation appropriate to the user.

1. Wrap the cuff around your wrist. Sit comfortably with the cuff at the same level as your heart and relax.

2. Press the **START** button. All of the display segments are displayed.

3. Select a user from user 1 and user 2 using the **SET** button immediately. Adjust and keep the height of the cuff (with blue light) to the same level as your heart using the C.P.G. indicator.
   Note: If you do not use user selection, wait for the inflation for several seconds. If you do not use the C.P.G. function, the C.P.G. indicator is not displayed.

4. Zero (0) is displayed blinking briefly. Then the display changes, as measurement begins. The cuff starts to inflate. It is normal for the cuff to feel very tight. The measurement starts automatically when inflation starts, and the ✖️ (heart mark) blinks.
   Note: If you wish to stop inflation at any time, press the **START** button again.

5. When the measurement is complete, the device displays readings (of the systolic and diastolic pressure readings, pulse rate, WHO classification, I.H.B. symbol and C.P.G. indicator). While readings are displayed, the date and time are displayed alternately. The cuff exhausts the remaining air and completely deflates automatically.
   Note: If you do not want to store new readings in memory, press the ▼ button while readings are displayed.

6. Press the **START** button again to turn the device off. Remove the cuff.
   Notes: The device is provided with an automatic power shut-off function. Allow at least three minutes between measurements on the same person.
Recalling the Memory Data

Note: This device stores the last 60 measurements in memory.

1. Press the  button when turning the device off.
   The average of all measurements and the number of data are displayed.
   If no data, “0” is displayed. Press the  or  button to turn the device off.

2. Use the following buttons to display data (of number and measurement data).
   - Select a user from user  and user  using the  button.
     The device displays the average of all measurements and the number of data are displayed.
   - Pressing the  button each time, the device displays as follows:
     - Average data of all AM (morning) measurements taken between 4:00 and 9:59. In the example, if no data,  is displayed.
     - Average data of all PM (evening) measurements taken between 18:00 and 1:59.
     - Data (of number and measurement data).
       The device displays in order from most recent data. The date and time are displayed alternately while displaying the measurement data.
       In the example: No.30 & data  No.29 & data  …  No.01 & data.

3. If you press the  button after oldest data is displayed, the device
   proceeds to step 1, the average of all measurements and the number of data are displayed.

4. Press the  button to turn the device off.
   After one minute of non-operation, the device will turn off automatically.
Deleting Data Stored in Memory

1. Select a user from user and user using the SET button. Turn off the device using the START button.

2. Press and hold the button until turning off the device automatically. The device displays a user icon and the mark, deletes data stored in memory while blinking the mark and turns off automatically.

Note: This operation will delete specified user data stored in memory. You cannot select which data to delete.

What is an Irregular Heartbeat?

The UB-533 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 by 25% from the average of all heartbeats during the blood pressure measurement. It is important that you be relaxed, remain still and do not talk during measurements.

Note: We recommend contacting your physician if you see this symbol frequently.
%IHB is displayed as frequency of IHB detected. IHB can detect not only noises such as physical movement but also an irregular heartbeat. Therefore, we recommend contacting your physician if %IHB level is high.

\[
\%\text{IHB} = \frac{\text{Number of detected IHBs in memory}}{\text{Total number}} \times 100 \%
\]

Display of %IHB: %IHB is displayed when displaying average values.

%IHB is not displayed when the memory number is six or less.

Average value display

<table>
<thead>
<tr>
<th>Level 0</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>%IHB=0~24</td>
<td>%IHB=25~49</td>
<td>%IHB=50~74</td>
<td>%IHB=75~100</td>
</tr>
<tr>
<td>Not displayed</td>
<td><img src="image1" alt="Icon" /></td>
<td><img src="image2" alt="Icon" /></td>
<td><img src="image3" alt="Icon" /></td>
</tr>
</tbody>
</table>
**Pressure Bar Indicator**

The indicator monitors the progress of pressure during measurement.

**WHO Classification Indicator**

Each six segments of the bar indicator correspond to the WHO blood pressure classification is described on 20 page.

**Example**

<table>
<thead>
<tr>
<th>Moderate hypertension</th>
<th>Mild hypertension</th>
<th>High normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>174/102</td>
<td>147/98</td>
<td>134/87</td>
</tr>
</tbody>
</table>

The indicator displays a segment, based on the current data, corresponding to the WHO classification.
The C.P.G. Indicator

- **The C.P.G. Indicator**
  The C.P.G. (Correct Position Guidance) indicator is the function to inform a difference between the height (wrist angle) of the blood pressure monitor and your cardiac height in the correct posture (Example: sitting posture, height of table and chair, etc.) during the measurement. The indicator can be used to get more stable measurement condition.

<table>
<thead>
<tr>
<th>The height of the blood pressure monitor is lower than your heart.</th>
<th>The height of the blood pressure monitor is the same level as your heart.</th>
<th>The height of the blood pressure monitor is higher than your heart.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low angle Incorrect Height</td>
<td>Proper angle Correct Height</td>
<td>High angle Incorrect Height</td>
</tr>
</tbody>
</table>

The position of the device is checked both before and after measurement. If both checks show a correct measurement position the LEVEL indicator is lit (blue).

For all others measurements an indicator for LOW or HIGH measurement position will be lit (orange).

- **How To Use My C.P.G.**
The C.P.G. function can be used with proper posture (wrist angle) in the majority of measurements. If you need to change the posture to adjust the height so that the height of the blood pressure monitor is the same level as your cardiac height, you can use my C.P.G. function to store a personal posture. Preset your angle to my C.P.G. function before measurement.

- **Proper Posture**
  Sit straight back on a chair and put your elbow on a table.
The Indicator During Measurement And Recalling Memory
The C.P.G. indicator can be displayed at the beginning of measurement and is included in data stored in the memory. Adjust and keep the angle during measurement.

About Blood Pressure

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 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.

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
- Reduce salt and fat intake
- Maintain proper weight
- Exercise regularly
- Have regular physical checkups

Why Measure Blood Pressure at Home?
Blood pressure measured at a clinic or doctor's office may cause apprehension and can produce an elevated reading, 25 to 30 mmHg higher than that measured at home. Home measurement reduces the effects of outside influences on blood pressure readings, supplements the doctor's readings and provides a more accurate, complete blood pressure history.
WHO Blood Pressure Classification
Standards to assess high blood pressure, without regard to age, have been established by the World Health Organization (WHO), as shown in the chart at the right.

Blood Pressure Variations
An individual’s blood pressure varies greatly on a daily and seasonal basis. It may vary by 30 to 50 mmHg due to various conditions during the day. In hypertensive individuals variations are even more pronounced. Normally, the blood pressure rises while at work or play and falls to its lowest levels during sleep. So, do not be overly concerned by the results of one measurement. 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 the date and time when recording your blood pressure. Consult your doctor to interpret your blood pressure data.

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 the authorized dealer in your area or our customer service department. The A&D customer service will provide technical information, spare parts and units to authorized dealers. The device was designed and manufactured for a long service life. However it is generally recommended to have the device inspected every 2 years, to ensure proper functioning and accuracy. Please contact the authorized dealer in your area or A&D for maintenance.
<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Reason</th>
<th>Recommended Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nothing appears in the display, even when the device is turned on.</td>
<td>Batteries are drained.</td>
<td>Replace all batteries with new ones.</td>
</tr>
<tr>
<td></td>
<td>Battery terminals are not in the correct position.</td>
<td>Reinstall the batteries with negative and positive</td>
</tr>
<tr>
<td></td>
<td></td>
<td>terminals matching those indicated in the battery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>compartment.</td>
</tr>
<tr>
<td>The cuff does not inflate.</td>
<td>Battery voltage is too low.</td>
<td>Replace all batteries with new ones.</td>
</tr>
<tr>
<td></td>
<td>![LOW BATTERY mark] (LOW BATTERY mark) blinks. If the batteries are drained</td>
<td></td>
</tr>
<tr>
<td></td>
<td>completely, the mark does not appear.</td>
<td></td>
</tr>
<tr>
<td>The device does not measure. Readings are too high or too low.</td>
<td>The cuff is not applied properly.</td>
<td>Apply the cuff correctly.</td>
</tr>
<tr>
<td></td>
<td>You moved your wrist or body during the measurement.</td>
<td>Make sure you remain very still and quiet during the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>measurement.</td>
</tr>
<tr>
<td></td>
<td>The cuff position is not correct.</td>
<td>Sit comfortably and still.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Place your arm on a table with your palm facing upward</td>
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<tr>
<td></td>
<td></td>
<td>and the cuff at the same level as your heart.</td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>If you have a very weak or irregular heart beat, the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>device may have difficulty in determining your</td>
</tr>
<tr>
<td></td>
<td></td>
<td>blood pressure.</td>
</tr>
<tr>
<td>Other</td>
<td>The value is different from that measured at a clinic or doctor’s office.</td>
<td>See the section “Why Measure Blood Pressure at Home?”.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Remove the batteries. Place them back properly</td>
</tr>
<tr>
<td></td>
<td></td>
<td>and try measurement again.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Type</th>
<th>UB-533</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement method</td>
<td>Oscillometric measurement</td>
</tr>
</tbody>
</table>
| Measurement range | Pressure: 0 – 299 mmHg  
Pulse: 40 – 180 beats / minute |
| Measurement accuracy | Pressure: ±3 mmHg  
Pulse: ±5% |
| Power supply | 2 x 1.5V alkaline batteries (LR03 or AAA) |
| Number of measurements | Approx. 250 measurements, when AAA alkaline batteries are used, with pressure value of 170 mmHg at room temperature of 23°C. |
| Wrist circumference | 13.5 – 21.5 cm |
| Classification | Internally powered ME equipment (Continuous operation mode) |
| Applied part | Cuff Type BF |
| Useful life | Device: 5 years (when used six times a day) |
| Clinical test | According to ANSI / AAMI SP-10 1992 |
| EMC | IEC 60601-1-2: 2007 |
| Memory | Last 60 measurements each for user 1 and user 2. |
| Operating conditions | +10°C to +40°C / 15%RH to 85 %RH / 800 hPa to 1060 hPa |
| Transport / storage conditions | -20°C to +60°C / 10%RH to 95 %RH |
| Dimensions | Approx. 56 [W] x 88 [H] x 21.5 [D] mm |
| Weight | Approx. 105 g, excluding the batteries |
| Ingress protection | IP20 |

Note: Specifications are subject to change for improvement without prior notice.
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