

WRIST DIGITAL BLOOD PRESSURE MONITOR

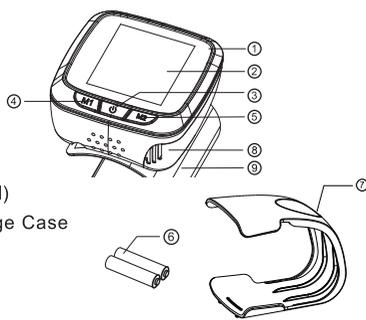
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INSTRUCTION MANUAL Model:LD-752



PARTS AND COMPONENTS

1. Main Body
2. Display
3. Button 'U'
4. Button 'M1'
5. Button 'M2'
6. Batteries (Optional)
7. Wrist Pillow/Storage Case
8. Battery cover
9. Wrist cuff



SYMBOLS

Symbols	Meaning
	Manufacturer
	Authorized Representative in the European community
	Symbol for the marking of electrical and electronics devices according to Directive 2012/19/EU. The device, accessories and the packaging have to be disposed of waste correctly at the end of the usage. Please follow Local Ordinances or Regulations for disposal.
	CE marking in conformity with EC directive 93/42/EEC
	Keep dry
	Attention, consult accompanying documents
	Type BF Applied Part
	Stand by

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GENERAL

This instruction manual is intended to assist the user for safe and efficient operation of the automatic digital blood pressure monitor (hereinafter: device) model LD-752. The device must be used in accordance with the procedures described in the manual. It is important to read and understand the entire manual, especially the section < IMPORTANT SAFETY INSTRUCTIONS >.

This device is intended for the non-invasive measurement of systolic and diastolic arterial blood pressure and pulse rate in adults (age 15 and above).

- CAUTION:**
1. Do not use this device on infants or persons who cannot express their intentions.
 2. The device is not suitable for measuring the blood pressure of children. Ask your doctor before using it on elder children.
 3. The patient is an intended operator. But persons who suffer from arrhythmia, diabetes, cardiovascular problems or who have had a stroke should consult your doctor before using the device.

PRINCIPLE OF OPERATION

This device adopts the oscillometric technology with Fuzzy Algorithm to measure the arterial blood pressure and pulse rate. The cuff is wrapped around the arm and automatically inflated by the air pump. The sensor of the device catches weak fluctuation of the pressure in the cuff produced by extension and contraction of the artery of the arm in response to each heartbeat. The amplitude of the pressure waves is measured, converted in millimeters of the mercury column, and is displayed by digital value.

ATTENTION: This device can not provide reasonable accuracy if used or stored in the temperature, humidity or altitude beyond the range stated in the section <SPECIFICATIONS> of this manual.

NEW TECHNOLOGIES USED

Fuzzy Algorithm is the processing algorithm, taking into account the specialty of individual heartbeats, which provides higher accuracy of measurement.
Software version: V1.1

IMPORTANT SAFETY INSTRUCTIONS

It is necessary to know that arterial blood pressure is subjected to sharp fluctuations. The level of the arterial blood pressure depends on many factors. Generally arterial blood pressure is lower in summer and higher in winter. Arterial blood pressure changes with atmospheric pressure and is affected considerably by many factors, e.g. physical loads, emotional excitability, stress, meals, etc. Medicines, drinking, smoking affect greatly the level of an individual's blood pressure. Blood pressure does vary with age and individuals, and it is recommended to write down the readings from blood pressure records daily, then you can check with your doctor to find out what is a "normal blood pressure measurement" for you.

Please read the instruction manual carefully before using this device, especially < Important safety instructions >, it can help you use the device correctly and safely!

Please keep the instruction manual for future use. For specific information about your own blood pressure, consult your physician.

Warnings

- Consult your physician if you suffer from illnesses prior to using the device.
- The device is not suitable for persons who have electrical implants.
- If you had a mastectomy (breast amputation) do not use this blood pressure monitor on the arm on the side of the mastectomy.
- Pregnant women should only measure their own blood pressure in consultation with their doctor, since the readings may be changed with pregnancy.
- Do not service or maintain the cuff while in use with patient.
- Do not use this blood pressure monitor on any wrist where intravascular access or therapy (such as an intravenous drip or a blood transfusion), or an arteriovenous shunt (A-V shunt) is present. The temporary interference to blood flow by the blood pressure measurement could result in injury.
- Do not use the device with other medical electrical (ME) equipment simultaneously.
- Do not use the device in the area the HF surgical equipment, MRI, or CT scanner exists, or in the oxygen rich environment.
- Do not use a mobile phone or other devices that emit electromagnetic fields, near the device. This may result in incorrect operation of the device.
- Never use any accessories or parts from other manufacturers. Using such

accessories or parts could cause a hazardous situation for the user or damage to the device.

- Do not modify this equipment without authorization of the manufacturer.
- The batteries used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat or incinerate.
- Keep equipment away from fire and heat sources to prevent fire or explosion.
- Please keep the unit out of reach of infants, children or pets, since inhalation or swallowing of small parts can be dangerous or even fatal.
- Please pay attention that the continuous CUFF pressure due to connection tubing kinking will cause a harmful injury.
- It is quite normal that two measurements taken in quick succession may produce significantly different results, because too frequent and consecutive measurements could cause disturbances in blood circulation and injuries.

Cautions

• Use this device under the right environmental conditions as indicated in this user manual. If not, this could affect the performance, lifetime of the device and measurement results.

- Only use this device for its intended purpose as described in this user manual.
- Do not confuse self-monitoring with self-diagnosis. This device allows you to monitor your blood pressure. Do not begin or end medical treatment based on the measurement results. Always consult your physician for treatment advice.
- Do not take any therapeutic measures on the basis of a self-measurement. Never change prescribed medication without consulting your physician. Consult your physician if you have any questions about your blood pressure.
- If you are taking medication, consult your physician to determine the most appropriate time to measure your blood pressure.
- Consult the physician if measurement errors occur in children or persons with arrhythmia.

• The pulse display is not suitable for monitoring the frequency of cardiac pacemakers.

• Common arrhythmias (such as atrial or ventricular premature beats or atrial fibrillation) and peripheral artery disease / arteriosclerosis can affect the accuracy of this blood pressure monitor. Please consult your physician how to best use this blood pressure monitor if you suffer from any of these conditions. Blood pressure measurement is not suitable in cases of serious arteriosclerosis (hardening of the arteries).

- The effectiveness of this blood pressure monitor has not been established in pregnant women.
- Always check the device and cuff before you use it. Do not use the device or cuff if one of them is damaged, because this may cause injury.
- This device is not intended for use on extremities other than the arm or for functions other than obtaining a blood pressure measurement.
- Do not attach the cuff on the same wrist on which other monitoring medical electrical equipment is attached simultaneously, because this could cause temporary loss of function of those simultaneously-used monitoring medical electrical equipment.

- Never attach the cuff on injured skin, an injured wrist or a wrist under medical treatment as this can cause further injury.
- Do not forcibly crease the wrist cuff excessively.
- Do not use the device in case of existing polyester or nylon material allergies.
- This device is not suitable for continuous monitoring during medical emergencies or operations.
- This device cannot be used with HF (High Frequency) surgical equipment at the same time.
- This device is not washable. Never immerse the device in water and do not rinse it under the tap.
- This device should keep dry to prevent from moisture.

- The equipment is not AP/APG equipment and is not suitable for use in the presence of a flammable anesthetic mixture with air, with oxygen and nitrous.
- To avoid measurement errors, do not use the device near strong electromagnetic fields, radiated interference signal or electrical fast transient/burst signal. For example magnets, radio transmitters, microwave ovens.
- If this device was stored in low temperature, leave it in room temperature for at least 1 hour.

• Repeated measurements with an interval of 3 minutes are recommended, so you can calculate the average to get a more accurate measurement. An interval of 3 minutes can also ensure that the operation of the device does not result in prolonged impairment of the circulation of the blood.

• Atherosclerosis patients may require longer interval (10-15minutes) as elasticity of patient's vessels decreases significantly with the disease. 10-15minutes interval is also applicable for patients suffering from diabetes for a long period of time.

• Dispose of the device, components and optional accessories according to applicable local regulations. Unlawful disposal may cause environmental pollution.

• Connecting electrical equipment to mso effectively leads to creating a ME system, and can result in a reduced level of safety.

CLASSIFICATION

- ME EQUIPMENT not intended for use in an oxygen rich environment or in the presence of flammable mixers.
- Internally powered equipment.
- Type BF applied part, recognize the cuff as applied part.

BATTERY INSTALLATION

1. Open the battery cover and install two 'AAA' type batteries into the battery compartment as indicated. Make sure that the polarity is correct as in Fig.1;



Fig.1

2. Close the battery compartment cover.
- Replace the batteries when the replacement indication " " appears in the display or nothing after 'U' button is pressed;
 - Batteries in this kit are intended to check work capacity of the device and the life-span of the batteries can be shorter than the recommended;
 - Use R03, LR03 or AAA alkaline batteries, do not use rechargeable battery;
 - Only same type batteries are allowed to use together. Replace all batteries simultaneously;
 - If the device is to be unused for long time, please take out the batteries;
 - Don't leave the worn batteries in the device.

CORRECT POSTURE FOR MEASUREMENT

Sit at the table and let the table support your arm as you take the measurement as in Fig.2; or you can use arm pillow to support your arm as in Fig3. Wrap the wrist cuff around the left wrist as shown in the attached to the wrist securely with display facing the user. If your sleeve restricts blood circulation of your wrist, you roll your sleeve up so as to release in such restriction. Please take off your clothes to get accurate measurement if necessary. If measurement on your left wrist is difficult, you can use right wrist for measurement.



Fig.2



Fig.3

NOTES:

Make sure that the wrist is at approximately the same height as your heart, and that the forearm is extended naturally with palm up on the table as in Fig.4.

If the cuff is too high above your heart, your blood pressure will read artificially low. If the cuff is too low below your heart, your blood pressure will be artificially high.

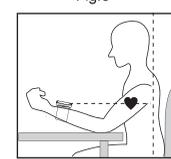


Fig.4

SETTING THE DATE AND TIME

The function provides accurate measuring time for each measurement. To get an accurate date and time, the user should preset the date and time correctly before the first use of this device.

The operation procedure for presetting Date/Time is as follows:

1. When the device is connected to power supply at first, the display will show as in Fig.5;

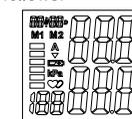


Fig.5

2. Press and hold the button 'M1', then press the button 'U', and the year number flashes as in Fig.6;

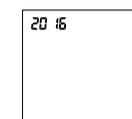


Fig.6

3. Press button 'M1', or 'M2' to subtract or add the number, and press button 'U' for confirmation;

4. When the year setup is finished, the month number will flash automatically. Please follow the same instruction as above to set month, date and time;

5. Press button 'U' to finish the setup. If you want to change the date and time, please repeat procedure 2,3,4.

Annotation:

When under the mode of Date/Time setting without any operation, the device will automatically return to standby mode after one minute.

CARRY OUT A MEASUREMENT

1. Wrap the wrist cuff around your left wrist. See < CORRECT POSTURE FOR MEASUREMENT >.
2. Before the measurement, take 3-5 times deep breathe and relax yourself. Don't talk or move your arm;
3. Press button 'U', Screen display the current time date as in Fig.7.
4. Press button 'U' again and all symbols will appear on display in 2 seconds. Then '0 mmHg' will appear on the screen. Pump begins to inflate with display showing the reading of pressure. Generally the pressure will reach 190 mmHg as in Fig.8;

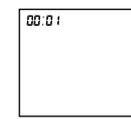


Fig.7

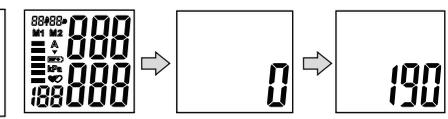


Fig.8

