

KD-7902



Wrist Blood Pressure Monitor Operation Guide



Name of Each Part



Function Description

Based on oscillometric method and silicon integrate pressure sensor technology, blood pressure and heart rate can be measured automatically and non-invasively which helps to ease the operation. New blood pressure classification indicator visually indicates user's blood pressure category, 120 memories with date and time display. These memories are stored in two groups with a capacity for 60 readings each. The pulse and irregular heart beat (if any) can be indicated.

Specification

1. Model: KD-7902	9. Measuring accuracy: ± 3 mmHg
2. Machine size: 87.2mm \times 64mm \times 30.7mm	10. Heart pulse rate range: 40-180 per minute
3. Cuff size: 140mm x 195mm	11. Environmental temperature for using: -5 ~ +40 $^{\circ}$ C
4. Weight: 108g (excluding batteries)	12. Environmental humidity for using: <80%
5. Measuring method: oscillometric method, automatic air inflation and measurement	13. Environmental temperature for storage: -20 ~ +55 $^{\circ}$ C
6. Memory volume: 2 \times 60 times	14. Environmental humidity for storage: <95%
7. Power source: AAA \times 2 batteries	15. Environmental pressure: atmosphere pressure
8. Blood pressure measuring range: 0-295mmHg	16. Battery life: Approx. 1 month with normal usage

Measuring Procedures

1. Battery Loading

- Open battery cover located in the back left side of the monitor.
 - Load two "AAA" size batteries. Please pay attention to polarity
 - Close the battery cover.
- * When LCD shows battery symbol it means you must change the batteries at once. Rechargeable batteries with a voltage of 1.2V are not suitable for this product.
* Take out all the batteries if the device will not be used for a long time to avoid battery leakage and relevant damage.



The equipment, the batteries and cuff used in it can be disposed as industrial rubbish at the end of their usage, or according to local regulations.

2. Clock Mode

- Once you install the batteries, the LCD will display the time and date. (See picture 1)



Picture 1

3. Clock Adjusting

- When the machine is in the Clock Mode, press the " " and "M" buttons at the same time and release. The machine enters the Clock Adjusting Mode. The month will twinkle first. (See picture 2). Press the "M" button continuously to adjust the number, once you have the correct month number press the " " button, the day will start twinkling (See picture 2-1) adjust the day with the "M" button and then press the " " to go to the time and repeat the same procedure.

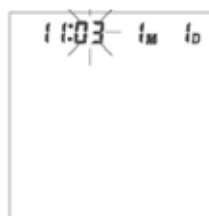


Picture 2



Picture 2-1

- To exit the Clock Adjusting Mode when you finish, press the " " button and the number will stop twinkling. (See picture 2-2 & 2-3)



Picture 2-2



Picture 2-3

- When you change the batteries, you need to readjust the clock.

3. Placement of the Wrist Band and Accurate Position for the Measurement



- Be sure to place the wrist cuff on bare skin of left wrist, and place sphygmomanometer on the center of wrist. (See picture)
- Place wrist cuff 1-2cm above wrist joint.
- Close Wrist cuff, make sure your wrist does not feel tension. Don't close it too tight. (Otherwise the measurement will not be precise).
- Keep up right position at the same level of your heart. (See figure)
- To give greater stability to the arm is advisable to put the plastic box that comes with the meter below the wrist. (See figure)

Prohibition:

- * This product cannot be used on infants
- * This product cannot be used on other uses than blood pressure measurement



5. Measuring Process

- After your body is in a comfortable position, press the “” button. After a long “beep”, BPM will verify itself, and LCD will display all automatically. (See Picture 3)
- Then you will see on screen “U1” or “U2” indicating the Group of memory in which the measurement shall be recorded (see Picture 3-1 & 3-2). If you want to change the group press the “M” button and then press the “” button to confirm your choice.
- After you confirm the current group, if it already has memory in this group, LCD will show the latest result. (See picture 3-3) If the machine has no memory, the LCD will show zeros. (See picture 3-4).



Picture 3



Picture 3-1



Picture 3-2



Picture 3-3




Picture 3-4

- A few seconds later, LCD shows a single “0”. (See picture 3-5).

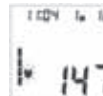


Picture 3-5

- Then the monitor begins to pressurize automatically.
- During the measurement, the pressure number will appear on screen. The sign of heart will be displayed intermittent while the pressure starts going down. (See picture 3-6 & 3-7).
- After measurement, the result of systolic, diastolic and pulse rate will all display on LCD. The irregular heartbeat symbol (if any) and blood pressure classification indicator will twinkle. (See picture 3-8). The results are automatically recorded in the previously selected memory.
- Press “” at the end of measurement to turn off the BPM. You can do the same if you want to stop the measurement at any time. The BPM goes off automatically after a few minutes of no use.



Picture 3-6



Picture 3-7

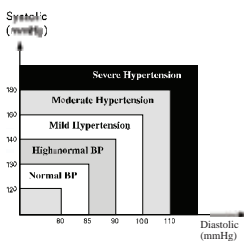


Picture 3-8

6. Assessing High Blood Pressure for Adults

The following standards for assessing high blood pressure (without regard to age or gender) have been established as a guideline according to WHO (World Health Organization). Please note that other risk factors (e.g. diabetes, obesity, smoking, etc.) need to be taken into consideration and may affect these figures. Consult with your physician for accurate assessment.



Classification of blood pressure for adults



BLOOD PRESSURE CLASSIFICATION	SBP mmHg	DBP mmHg	COLOR INDICATOR
Optimal	<120	<85	GREEN
Normal	120-139	85-89	GREEN
High-normal	140-159	90-99	GREEN
Stage 1 Hypertension	160-179	100-109	YELLOW
Stage 2 Hypertension	>180	>110	ORANGE
Stage 3 Hypertension	>180	>110	RED

WHO/ISH Definition and Classification of Blood Pressure Levels

7. Reading Memory Results

- Press the “M”; the group “U1” will appear intermittent on the LCD. If you want to change group, press the “” button, the “U2” group will appear intermittent, if you want to go back again to the group “U1” just press “” (see Figure 4 & 4-1). Once you choose the memory group, press the “M” button to confirm your selection, the group number will display constant.
- Once the group has been selected, the most recent result appears on screen with the number 01. (See Picture 4-2) The irregular heartbeat (if any) and the blood pressure classification will also appear together with the time and date of measurement. To move to the following memory press “M” and so forth until you reach the end of the memory or the result that you are seeking for. (See picture 4-3)



Picture 4





Picture 4-1



Picture 4-2



Picture 4-3

- Press “M” again after the last memory to turn off the machine or it will power off after a few minutes of no use. To exit Memory at any point press “” and the machine will turn off immediately.
- If it has no memory (or all memories have been deleted), the LCD will show “0” for systolic, diastolic, heart rate, and show “00” for the numbers of memory. (See picture 4-4) Press the “” button and the machine will power off.



Picture 4-4

Picture 5


8. Deletion of Memories

Press the “M” button, choose the group of memory you want to delete, once one of the readings is displayed, press “M” and hold for three seconds or until you see “-” (see Figure 5) Press again “M” and it will power off.




Picture 5

9. Shut Down

After each measurement press the “” button to power off the machine. After one minute of non-use the machine will power off.

Abnormality & Troubleshooting (1)

Abnormality	Reason	Checkout
LCD shows low battery symbol 	Batteries low	Change the batteries
LCD shows “Er 0”	Pressure system is unstable before measurement.	Don't move and try again.
LCD shows “Er 1”	Systolic pressure detect failed	
LCD shows “Er 2”	Diastolic pressure detect failed	
LCD shows “Er 3”	Pneumatic system blocked or cuff is too tight during inflation	Place the cuff correctly and try again
LCD shows “Er 4”	Pneumatic system leakage or cuff is too loose during inflation	
LCD shows “Er 5”	Inflation above 300mmHg	Measure again after 5 minutes. If the monitor is still abnormal, please contact the local distributor or the factory.
LCD shows “Er 6”	Over 3 minutes while pressure above 15 mmHg	
LCD shows “Er 7”	EEPROM accessing error	
LCD shows “Er 8”	Device parameter check error	

If you cannot resolve the problem you can contact the factory or customer service department
1-866-373-2824

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