kinetik
WELLBEING

REF LD-581 MD

CE 0123 IP21

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LD-581_UK_IB_20250915_v3

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Instruction Manual

Upper Arm Automatic Digital Blood Pressure Monitor



REF LD-581

- Thank you very much for selecting Kinetik Wellbeing Upper Arm Automatic Digital Blood Pressure Monitor LD-581.
- Please do read the user manual carefully and thoroughly so as to ensure the safe usage of this product, and keep the manual well for further reference in case you have problems.

Table of Contents

SUPPORT....4

INTRODUCTION....5
- General Description
- Caution
- Principle of Operation
- Attention
- New Technologies Used
- Safety Information
- Important Safety Instructions
- Monitor Components

BEFORE YOU START....11
- Battery Installation
- Using the AC Power Adapter

USING THE DEVICE....13
- Correct Posture
- Assembling the Cuff
- Carrying Out a Measurement
- Memory Function
- WHO Classification Indication
- Irregular Heartbeat Detector

TROUBLESHOOTING....19
CARE, STORAGE, REPAIR, AND RECYCLING....20
SPECIFICATIONS....21
MANUFACTURER'S DECLARATION....22
WARRANTY....24
REQUIRED RECORDS....25
PERIODIC SAFETY CHECKS....26

♥ Support

Our manual should provide you with all the information you need to set up and use this product.

If you have a question, have a look at our Troubleshooting page!

For further assistance, why not contact our Customer Care team directly? We're here to help!

Our Customer Care team are available from 9am-5pm, Monday to Friday (excluding bank holidays).

We promise to respond to all queries and will ensure to resolve any issue you may be having.

You can reach us by…

Live Chat:
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♥ General Description

This instruction manual is intended to assist the user for the safe and efficient operation of the automatic digital blood pressure monitor (hereinafter: device) model LD-581. 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 physician before using it on older 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 their physician before using the device.

♥ Principle of Operation

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

♥ Attention

This device cannot provide reasonable accuracy if used or stored at temperatures, humidity levels, or at an altitude beyond the range stated in the section <SPECIFICATIONS> of this manual.

♥ New Technologies Used

Fuzzy Logic is a processing algorithm, taking into account the special characteristics of individual heartbeats, which provides a higher accuracy of measurement. Software version: V1.1

Safety Information

The signs below might be in the user manual, labeling or other component.
They are the requirement of standard and using.

	Manufacturer		Type BF applied part
CN	Date of manufacture and Made in China	⎓	Direct Current
	Recyclable	SN	Serial Number
	Importer	UDI	Unique Device Identifier
LOT	Batch code	MD	Medical Device
	For indoor use only		Class II Equipment
IP21	Degree of protection against the Ingress of water.		
	Consult instructions for use or consult electronic instructions for use.		
REF	Catalogue Number / Model Number		
EU REP	European authorised representative		
	Refer to instruction manual/booklet To signify that the instruction manual/ booklet must be read. Note: The background color of the symbol is blue.		
	Caution Indicates that caution is necessary when operating the device or control close to where the symbol is placed, or that the current situation needs operator awareness or operator action in order to avoid undesirable consequences.		
	The symbol indicates that the product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.		
CE 0123	CE marking indicates that a product has been assessed by the manufacturer and deemed to meet EU safety, health and environmental protection requirements. It is required for products manufactured anywhere in the world that are then marketed in the EU.		

Important Safety Instructions

It is necessary to know that arterial blood pressure is subject to sharp fluctuations. The level of 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 considerably affected by many factors, e.g. physical loads, emotional excitability, stress, meals, etc. Medicines, drinking, and smoking greatly affect the level of an individual's blood pressure. Blood pressure varies with age and individuals, and it is recommended to note blood pressure readings on a daily basis. You can check with your physician to find out what a 'normal blood pressure measurement' should be for you.

Please read the instruction manual carefully before using this device, especially the < Important safety instructions >. It can help you use the device correctly and safely! Please keep the instruction manual for future reference. For specific information about your own blood pressure, consult your physician.

Warning

- If you suffer from an illness, consult your physician 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 physician, since the readings may be modified due to pregnancy.
- Do not service the cuff while it is being used on a patient.
- Do not use this blood pressure monitor on an arm 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 this device with other medical electrical (ME) equipment simultaneously.
- Do not use this device around HF surgical equipment, in the presence of MRI or CT scanners, or in an oxygen rich environment.
- Do not use around mobile phones or other devices that emit electromagnetic fields. This may result in the incorrect operation of the device.
- Never use accessories or parts from other manufacturers. Using such accessories or parts could cause a hazardous situation for the user or damage the device.
- Do not modify this equipment without the authorization of the manufacturer.
- The batteries used in this device may present a fire or chemical burn hazard if mishandled. 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. The inhalation or swallowing of small parts can be dangerous or even fatal.
- Please pay attention to continuous CUFF pressure. A bent air tube may cause serious injury.

Warning

- Do not use an extension cord with this device.
- The air tube or the AC adapter cable may cause accidental strangulation in infants.
- Do not put the air tube around your neck – danger of suffocation!
- A device should never be left unattended when plugged in.
- Do not reach for a plugged-in device that has fallen into water. Unplug immediately.
- 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 injury.

⚠ Caution

- Use this device under correct environmental conditions as indicated in this user manual. If not, this could affect the performance, the lifespan 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 cease medical treatment based on the measurement results. Always consult your physician for medical 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 your 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 contractions or atrial fibrillation) and peripheral artery disease / arteriosclerosis can affect the accuracy of this blood pressure monitor. Please consult your physician on 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 for pregnant women.
- Always check the device and cuff before use. 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 arm on which other monitoring medical electrical equipment is attached simultaneously. This could cause a temporary loss of function of those simultaneously-used medical electrical monitoring equipment.
- Never attach the cuff on injured skin, an injured arm, or an arm under medical treatment, as this can cause further injury.
- Do not forcibly fold the arm cuff or the air tube excessively.
- Do not press the air tube while taking a measurement.
- Do not use the device in case of existing allergies to polyester or nylon material.
- This device is not suitable for continuous monitoring during medical emergencies or operations.

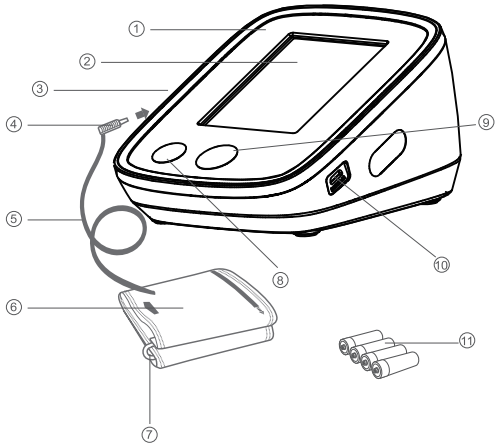
⚠ Caution

- This device cannot be used simultaneously with HF (High Frequency) surgical equipment.
- This device is not washable. Never immerse the device in water, and do not rinse it under the tap.
- This device should be kept dry to prevent moisture build-up.
- The equipment is not AP/APG and is not suitable for use in the presence of a flammable anesthetic mixture with air containing oxygen or nitrous.
- To avoid measurement errors, do not use the device near strong electromagnetic fields, radiated interference signal, or electrical fast transient/burst signals. For example, magnets, radio transmitters, microwave ovens.
- If this device was stored in low temperatures, leave it at room temperature for at least 1 hour.
- Repeated measurements with an interval of 3 minutes are recommended. 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 intervals (10 – 15 minutes), as the elasticity of patient's vessels decreases significantly with the disease. 10 to 15-minute intervals are also applicable for patients who have been 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 (without adapter), Class II equipment (with adapter).
- Type BF applied part, the cuff is recognized as an applied part.

♥ Monitor Components



1. Main Body
2. LCD Display
3. Air Connector
4. Tube Plug
5. Air Hose
6. Cuff
7. D-ring
8. Button ‘M’
9. Button ‘⏻’
10. USB Port
11. Batteries (optional)

♥ Battery Installation

1. Open the battery cover and install four ‘AAA’-type batteries into the battery compartment as indicated. Make sure that the polarity is correct;
2. Close the battery compartment cover.

- Replace the batteries when the battery replacement indication ‘ ▭ ’ appears in the display or nothing happens after the ‘ ⏻ ’ button is pressed;
- Batteries in this kit are intended to verify the working capacity of the device and the life-span of the batteries may be shorter than indicated;
- Use R6, LR6 or AAA alkaline batteries, do not use rechargeable batteries;
- Only same-type batteries should be used together;
- Replace all batteries at the same time;
- If the device is to be unused for a long time, please remove the batteries;
- Don't leave old batteries in the device.

♥ Using the AC Power Adapter

As an alternative to batteries, you can use the AC power adapter to supply power. The power adapter is optional for this device and can be bought separately. The AC adapter is specified as a part of the blood pressure monitor.

- Insert the adapter cord into the input on the right side of the monitor.
- Insert the AC adapter plug into the outlet.
- To remove the AC adapter, disconnect the adapter plug from the outlet first, then disconnect the cord from the monitor's input.

⚠ Caution

- When using the optional AC adapter, the adapter must comply with the requirements of IEC60601-1 standards.
- To avoid possible damage of the monitor, use only the exclusive adapter that can be purchased from authorized dealers. Other adapters may damage the blood pressure monitor.
- The AC adapter is used as an isolating means, the adapter plug must be inserted into an outlet near the operator, making it easy to disconnect the device from the outlet.
- If the device has been in use for a long period of time, remove the plug after the adapter cools to prevent burns.
- Plug the AC adapter into the appropriate voltage outlet. Do not use a power strip.
- Do not place the blood pressure monitor in a position making it difficult to reach the disconnection device (adapter).

Note: The monitor is designed not to draw power from the batteries when the AC adapter is in use.

Optional AC adapter technical feature:
Model: YS5M-0501000
Input: 100-240V 50/60Hz
Output voltage: 5V±5%
Output current: 500mA
Output plug polarity:<->inner



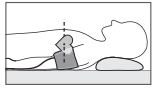
⚠ Caution

- Please remain still for 5-10 minutes and avoid eating, drinking, alcohol, smoking, exercising, and bathing before taking a measurement. All these factors will influence the results of the measurement.
- Remove any tight-fitting garments from your upper arm.
- Always measure on the same arm (normally the left).
- Measurements should be taken regularly at the same time each day, as blood pressure can vary throughout the day.
- Any effort to support the arm during measurement may increase blood pressure.
- Make sure that you are in a comfortable, relaxed position with legs uncrossed, feet flat on the floor, back and arm supported, the middle of the cuff positioned at the level of the right atrium of the heart. Do not move, contract your muscles, or talk during measurement. Use a cushion to support your arm, if necessary. Maintain this position for normal use.
- If the cuff on your arm is positioned lower or higher than the heart, a false reading will be obtained.
- A loose or open cuff causes false readings.
- With repeated measurements, blood accumulates in the arm, which can lead to a false reading.
- Consecutive blood pressure measurements should be repeated after a 1-minute pause or after the arm has been held up in order to allow the accumulated blood to evacuate.

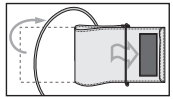
♥ Correct Posture

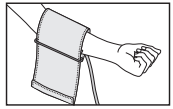
1. Sit beside the table and let the table support your arm as you take the measurement.
2. Sit upright with your back straight.
3. Make sure that the cuff on the upper arm is not twisted, and is at approximately the same level as the heart.
4. Make sure that your feet are on the ground and your ankles are not crossed.
5. You may lie on your back and take a measurement. Look at the ceiling, remain calm, and don't move your neck or body during the measurement.

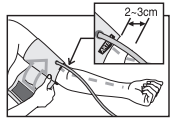


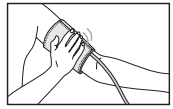


♥ Assembling the Cuff









1. Insert the edge of the cuff approximately 5 centimeters into the D-ring as shown in figure.
2. Place the cuff on the left upper arm with the tube pointing toward the palm of the hand. If measurement on your left arm is difficult, you can use the right arm for measurement. In this case, it is necessary to know that the readings may differ by approximately 5-10 mmHg between the left arm and right arm.
3. Wrap the cuff around your upper arm with the lower edge of the cuff approximately 2-3 centimeters above the elbow. The <ARTERY> mark must be over the artery of the arm.
4. Press the cuff to make sure that it is securely attached. It is recommended that the cuff be neither too tight nor too loose. You should be able to easily insert two fingers between the cuff and the upper arm.
5. The <INDEX> mark on the cuff must line up with the <NORMAL> range. This indicates that the cuff size is correct. If the <INDEX> mark points to the area beyond the <NORMAL> range, please contact your dealer as to whether you need another size cuff. This device is supplied with the standard cuff, which fits an arm size of 22-32 cm.
6. Sometimes it is difficult to make the cuff fit in the usual manner, depending on the shape of the user's upper arm. The cone-shape cuff assembly is also acceptable.
7. Your clothes may restrict the blood flow in your upper arm, or rolling up your sleeve may result in blood-flow constriction. Please remove your shirt to get an accurate measurement, if necessary.

Caution:
If you experience discomfort during a measurement, such as pain in the upper arm or other complaints, press the ' ⏻ ' button to immediately release the air from the cuff. Loosen the cuff and remove it from your arm.

♥ Carrying Out a Measurement

1. Insert the air hose into the air connector. Before the measurement, take 3-5 deep breaths and relax. Don't talk or move your arm.
2. Press the ' ⏻ ' button, and all symbols will appear on display for 2 seconds, as shown in Fig.2. Then '0 mmHg' will appear on the screen. The pump begins to inflate and the display will show the pressure reading.
3. If the cuff was applied too loosely, it may cause unreliable measurement results or measurements can fail to start. The 'Cuff Check Indicator' will flash to help determine if the cuff is wrapped snugly enough. The specified ' ◯ ' icon appears if the cuff is wrapped correctly during measurement, as shown in Fig.3 Otherwise, the specified ' ◯ ' icon appears if the cuff is wrapped correctly during measurement.
4. Generally, the pressure will reach 190 mmHg.
   NOTE: The device will inflate to a higher pressure automatically if inflation pressure is not sufficient to determine measurement results.
5. Then, the pump stops and pressure begins to decrease gradually, and the heart symbol start to flash with every heart beat once a pulse is detected, as shown in Fig.4.
6. After the measurement, 'M1' or 'M2' will flash to remind the user to record the reading, the systolic pressure, diastolic pressure, and pulse rate as shown in Fig.5. Press the 'M1' or 'M2' button to record the reading in the corresponding memory.
7. If an irregular heartbeat was detected during the measurement, the ' ♥ ' icon will appear on the LED display to inform users of a heartbeat irregularity, as shown in Fig.6.
   Attention: We recommend contacting your physician if you see the ' ♥ ' indicator frequently.



Fig.2



Fig.3



Fig.4



Fig.5



Fig.6

8. ‘Movement Detection’ helps remind the user to remain still and indicates any adverse body movement during measurement. The ‘ ’ icon appears once a ‘body movement’ has been detected during and after such a measurement.
   Note: It's highly recommended that you measure again if this icon is displayed.
9. Press the ‘ ⏻ ’ button to turn off the device. Please rest for at least 3 minutes before proceeding with another measurement. If the power supply is not switched off and the device remains unused for 3 minutes, the device will be switched off automatically.

Notes:
If the result exceeds the display range, ‘Hi’ is displayed. When the result is below the display range, ‘Lo’ is displayed.

Rapid Deflation During Measurement:
If you do not feel well during measurement or want to stop the measurement for any reason, you can press the ‘ ⏻ ’ button. The device will quickly release the air in the cuff and the device will be switched off.

♥ Memory Function

Memory Recall

1. LD-581 can store 30 sets of readings and automatically calculate the average value of the last 3 readings. When the memory is full (30 sets of readings are stored), the oldest reading will be automatically replaced by the latest reading. The memory will not be cleared, even if power supply is removed;
2. After a measurement or when the device is on standby, the user can press the ‘M1’ button to recall memory. Press the ‘M1’ button, the display will show the average value of the last 3 readings, as shown in Fig. 7;
3. Press the button again, the display will show ‘01’, which indicates the last reading and measuring time, then turns to another screen to show readings, as shown in Fig. 8;
4. Press the button again, the screen will indicate ‘02’, which displays the second to last reading.



Fig. 7



Fig. 8



Fig. 9

Clearing the Memory
When the device is switched off or when the device is on standby, hold down the ‘M1’ button for at least 3 seconds, the display will show ‘CL’ which means all the stored reading have been removed, as shown in Fig.10. During the memory query, hold down the ‘M1’ button for at least 3 seconds, the display will show ‘CL’ which means all the stored readings in this group have been removed, as shown in Fig.11.

♥ WHO Classification Indication

Standards for assessment of high or low blood pressure, regardless of age, have been established by the World Health Organization (WHO) as shown in the chart below:



Arterial blood pressure classification by World Health Organization

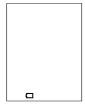
The indicator displays a segment, based on the current data, corresponding to the WHO classification.

For example, if your blood pressure is 145mmHg (systolic pressure), 88mmHg (diastolic pressure), according to the World Health Organization standard, your blood pressure level is Mild Hypertension.

Note: If the systolic blood pressure and the diastolic blood pressure fall into different categories, the higher value should be used for classification.

♥ Irregular Heartbeat Detector

Model LD-581 digital blood pressure monitor provides a blood pressure and pulse rate measurement, even when an irregular heartbeat occurs. When the device detects an irregular heartbeat or any excessive body movement during measurement, the ' ♥ ' icon will display on the LED screen. It is important that you remain relaxed, still, and that you do not talk during measurement. Note: We recommend contacting your physician if you see the ' ♥ ' indicator frequently.

PROBLEM	POSSIBLE CAUSE	SOLUTION
	The cuff has been placed incorrectly or the tube plug is inserted too loosely. Movement of arm/hand or talking during measurement. The cuff is not inflated to the necessary pressure.	Make sure that the cuff is positioned correctly and the tube plug is inserted tightly. Repeat the measurement. Repeat the measurement, fully following the recommendations of the user manual. Repeat the measurement, pumping the cuff to a higher pressure.
	The batteries are weak.	Replace all 4 batteries with new ones.
No display when turned on.	The batteries have run down. The batteries have been inserted with the wrong polarities. Battery contacts in the battery compartment are oxidized.	Replace all batteries with new ones. Install the batteries correctly. Clean the battery terminals with a dry cloth.
Inflation stops and begins inflating again.	Automatic inflation for ensuring correct measurement. Did you talk or move your arm (or hand) during measurement?	Remain quiet and still during measurement.
The reading is extremely low or high.	Is the cuff at the same level as the heart? Is the cuff wrapped correctly? Did you contract your arm during measurement? Did you talk or move your arm (or hand) during measurement?	Make sure that your posture is correct. Wrap the cuff correctly. Relax during measurement. Remain quiet and still during measurement.
Pulse rate is too low or too high.	Did you talk or move your arm (or hand) during measurement? Did you take the measurement immediately after exercising?	Remain quiet and still during measurement. Take the measurement again, after resting for more than 5 minutes.
The batteries are running low.	Use of faulty batteries.	Use alkaline batteries by trusted manufacturers.

♥ Care, Storage, Repair, and Recycling

1. It's necessary to protect this device against high moisture levels, direct sunlight, shocks, solvents, alcohol, and gasoline.
2. Remove the batteries if the device is being stored for a long period of time, and keep the batteries away from children.
3. Keep the cuff away from sharp objects and don't stretch or twist the cuff.
4. This device is not washable. Never immerse the device in water, and do not rinse it under the tap. Use only a soft, dry cloth to clean the device.
5. Do not service the cuff and the device when in use on a patient.
6. The cuff is fragile and must be handled with care. You can clean the cuff with a damp cloth for daily maintenance.
   To avoid cross infection, when sharing the cuff, you can sterilize the fabric cover of the cuff with a sponge moistened with a 3% solution of hydrogen dioxide. After a long period of use, there may be a partial discoloration on the fabric surface of the cuff. Do not launder or apply a hot iron to the cuff.
   WARNING: Under no circumstances may you wash the inner bag!
7. Since neither the device nor batteries are household waste, follow your local recycling regulations and dispose of them at an appropriate collection site.
8. Do not open the device, or fragile electrical components, such as an intricate air unit, could be damaged. If you cannot fix the problem using the troubleshooting instructions, please request service from your dealer.

Warning: Do not repair the device without manufacturer authorization. Do not carry out maintenance when using the device.

Caution: Generally, we recommend the device be inspected every 2 years and that the manometer mode be used to verify the accuracy of the manometer at a minimum of 50mmHg and 200mmHg after maintenance and repair. Please contact your dealer for maintenance.

Model	LD-581
Size	127(L) × 96(W) × 69(H)mm
Weight	Approximately 245g without batteries
Measuring method	Oscillometry
Measuring range	40 to 180 mmHg (DIA) 60 to 260 mmHg (SYS) 40 to 160 beats/minute (pulse rate)
Measuring accuracy	±3 mmHg for static pressure ± 5% of the reading for the pulse rate
Inflation	Automatic by pump
Rapid inflation	Automatic electronic valve
Batteries	Optional component, 4 × AAA × 1.5V
Adapter	Optional component, 5V, 500mA
Memory	1 User with 30 memory slots each
Operation temperature, humidity level, and air pressure	+10 C to + 40 C, 85% and below 800hPa to 1060hPa
Transport and storage temperature, humidity level, and air pressure	-20 C to + 50 C, 85% and below 500hPa to 1060hPa
Upper arm circumference	Can be used for arm circumferences of 22-32cm (standard cuff)
Complete kit	Main body, cuff, 4 × AAA batteries (optional), adapter (optional), storage box, instruction manual
Overvoltage category	Category II

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Development Area, 226009 Nantong City, P.R. China

EU REP Shanghai International Holding Corp. GmbH (Europe)
Eiffestrasse 80, 20537 Hamburg, Germany

Compliance information for each EMC test.

Electromagnetic Emission (Home Healthcare Environment)	
Emissions test (IEC 60601-1-2:2014)	Compliance
Conducted and radiated RF emissions	CISPR 11 Group 1 Class B
Harmonic emission IEC 61000-3-2	Class A
Voltage fluctuations/flicker emissions IEC 61000-3-3	Complies

Compliance information for each EMC test.

Declaration-Electromagnetic Immunity (Home Healthcare Environment)		
Immunity test	**IEC 60601 test level**	**Compliance level**
Conducted RF IEC 61000-4-6	3V 150 kHz to 80 MHz 6 V in ISM and amateur radio bands between 0.15 MHz and 80 MHz	3V 150 kHz to 80 MHz 6 V in ISM and amateur radio bands between 0.15 MHz and 80 MHz
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz also meet the requirements of Table 9 of 60601-1-2:2014	10 V/m 80 MHz to 2.7 GHz also meet the requirements of Table 9 of 60601-1-2:2014
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines	±2 kV for power supply lines
Surge IEC 61000-4-5	±0.5 kV, ±1 kV line(s) to lines	±0.5 kV, ±1 kV line(s) to lines
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% UT, 0.5 Cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT, 1 Cycle and 70% UT, 25/30 cycles single phase: at 0° 0% UT, 250/300 cycles	0% UT, 0.5 Cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT, 1 Cycle and 70% UT, 25 cycles single phase: at 0° 0% UT, 250 cycles
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	30A/m	30A/m

NOTE: The EUT is the AC mains voltage prior to application of the test level. The following phenomenon still fulfills the requirement of basic safety and essential performance.

*UT: 230V ~/50Hz. The pressure of the EUT deviates from the normal value but the value is still more than 10psi when flow is 4.5l/min.

**UT: 230V~/50Hz. The EUT stops working when adding 0% UT, but the EUT can restore its normal mode automatically.

- Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30cm (12 inches) to any part of this device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
- Under the test condition specified in immunity, the product can provide the basic safety and essential performance.
- If the essential performance of the device is lost or degraded, additional measures are necessary, such as reorienting or relocating the device.

Model		
Warranty period	Two years from date of purchase	
Date of purchase		
Place of purchase	Name:	Telephone:
	Address:	
Customer	Name:	Telephone:
	Address:	

1. This automatic digital blood pressure monitor is under a 24-month warranty from the date of purchase. The 24-month warranty excludes the monitor cuff. The cuff is under a 12-month warranty.
2. Warranty obligations are described on the buyer certificate of warranty.
3. The addresses of organizations for maintenance under warranty are provided on the certificate of warranty.

WARNING:
Do not modify this equipment without manufacturer authorization. All major maintenance on the device must be carried out by an authorized service center or distributor. No user-serviceable parts inside. Do not open before sending to an authorized representative or manufacturer.

DECLARATION:
When technical information for user or service personnel requirements is not within the scope of confidentiality of the Company, the Company will undertake to disclose information in accordance with procedure, including circuit diagrams and parts lists, and other related technology information that does not involve the disclosure of commercial secrets. For access to information channels and procedures, please contact your dealer or manufacturer.

Date	Problem	Service Technician
Warranty Regulation	1. During the period under warranty, repairs can be made at any BPM repair department. 2. The following conditions are not covered by the warranty: (1) Operating Nebulizer differently from procedures or instructions provided in the user manual. (2) The body is damaged artificially. (3) Self-repair or modifying the monitor construction in any way. (4) Breakdown due to corrosion following battery leakage. (5) Problems which occur due to a natural disaster and other cases of force majeures.	

PERIODIC SAFETY CHECKS

If you use this device with a power adapter, preventive inspection and maintenance must be carried out periodically.

- Before each use, please check the adapter. If damaged, do not use.
- Please clean the adapter plug at least once a year. Accumulated dust on the plug may be a fire hazard.

The manufacturer reserves the right to make technical changes without notice in the interest of progress.

Prior notice will not be given in case of any amendments within this manual. The mentioned trademarks and names are owned by the corresponding companies.



MADE IN CHINA

P581/2403/11