Arm Type Blood Pressure Monitor

Model: # BPM924-00

INSTRUCTION MANUAL

PLEASE READ THIS INSTRUCTION MANUAL COMPLETELY BEFORE OPERATING THIS UNIT

ΕN





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Importer



Distributor

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Intended Use

The product automatically measures human being's Systolic, Diastolic blood pressure and pulse rate by oscillometric method. The measurement results are displayed on the LCD. Measurement position is at human being's upper arm. The intended use of this over-the-counter device is for adults with upper arm circumference ranging from 220 mm to 420 mm (Approx.8.7 ~ 16.5 inches) and for home use. When the device detects the appearance of irregular heartbeats such as atrial or ventricular premature beats during measurement, an indicated symbol will appear with measuring readings.

This device is designed only for adults.

Type of Use/ Reuse

Multiple patient multiple use

Intended User

The Arm type blood pressure monitor is intended or both professional and consumer, and the patient is the intended operator. Patient selection criteria: Handicapped persons and children are the exception, as of handicapped persons and children need assistance by another person to use the device.

Contra-indications

- Please do not place the cuff over a wound as this may cause further injuries.
- If an intravenous treatment is being carried out or a venous catheter is inserted in the arm, blood pressure measurements can lead to injury. Never use the cuff on the arm to which these conditions apply.

• If you are prone to hematoma, do not put on a cuff nor carry out a blood pressure measurement.

Consult your doctor before measuring your own blood pressure if...

- If you have any of the following conditions, it is essential you consult your doctor before using the device: cardiac arrhythmia, Cardiovascular disease, very low blood pressure, diabetes, circulatory problems, diabetes, liver function disorders or narrowing of blood vessels, blood disorders, pregnancy, pre-eclampsia, hypotension, chills, shaking, tremors, implanted electrical implants (e.g. pacemaker).
- You are on dialysis or taking anticoagulant medication (anticoagulants), platelet aggregation inhibitors or steroids.
- You tend to bruise easily and/or are sensitive to pressure pain.

- Beware of blood flow interference and resulting harmful injury to the patient caused by continuous cuff pressure.
- Do not use the device at the same time as other medical electrical devices (ME equipment). This could lead to a malfunction of the device and/or an inaccurate measurement.
- Measurement results fundamentally depend on the measurement location and the position of the patient (sitting, standing, reclining). They are also influenced by e.g. physical activity and physiological preconditions of the patient. For comparable values, carry out the measurement in the same location and in the same position.
- Do not use the device outside of the specified storage and operating conditions. This could lead to incorrect measurements.
- Please note that when inflating the cuff, the functions of the limb in question may be impaired.
- During the blood pressure measurement, the blood circulation must not be stopped for an unnecessarily long time. If the device

malfunctions remove the cuff from the arm.

- The blood pressure monitor is made from precision and electronic components. The accuracy of the measurements and service life of the device depend on its careful handling.
- Do not drop the device.
- Do not perform measurements more frequently than necessary. Due to the restriction of blood flow, some bruising may occur.
- · Retake the measurement if unexpected readings are obtained
- Ensure that the cuff is not placed on an arm in which the arteries or veins are undergoing medical treatment, e.g., intravascular access or therapy, or an arteriovenous (AV) shunt.
- · Do not use the cuff on people who have undergone a mastectomy.
- Do not place the cuff over wounds as this may cause further injury.
- · High BMI health condition users may result varied.
- The blood pressure monitor must not be used in connection with a high-frequency surgical unit.
- Do not use the device in the vicinity of strong electromagnetic fields and keep it away from radio systems or mobile telephones.
- The measured values taken by you are for your information only they are no substitute for a medical examination. Discuss the measured values with your doctor and never make your own medical decisions based on them (e.g. regarding dosages of medicines).
- The device is only intended for the purpose described in these instructions for use. The manufacturer is not liable for damage resulting from improper or incorrect use. No modification of this equipment is allowed.
- If the irregular heart beat symbol appears often, it may indicate heart rhythm disorders. Please consult your doctor in that case. Severe heart rhythm disorders may sometimes produce lead to measurements or reduce the measurement accuracy. Please discuss with your doctor whether taking your own blood pressure is appropriate for you.

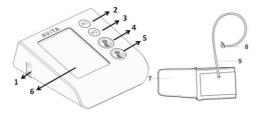
Important Information before Use

- Blood pressure measurements should only be interpreted by a physician or a trained health care professional who is familiar with your medical history. Through regular use of this device and recording of your measurements, you can keep your physician informed of the changes in your blood pressure.
- 2. Perform your measurement in a quiet place. You should be seated in a relaxed position.
- Avoid smoking, eating, taking medication, alcohol consumption or physical activity 30 minutes prior to taking a reading. If you are exhibiting signs of stress, avoid taking your measurement until the feeling subsides.
- 4. Rest 15 minutes prior to taking a reading.
- 5. Remove any constrictive clothing or jewelry that may interfere with the cuff placement.
- Keep the monitor stable during measurement to achieve an accurate reading. Remain still; do not talk during the measurement.
- 7. Record your daily blood pressure and pulse readings on a chart.
- Take your readings at the same time, each day or as recommended by your physician to get an accurate indication of change in your true blood pressure.
- 9. Wait a minimum of 15 minutes between readings to allow for the blood vessels to return to normal. The wait time may vary depending on your individual physiological characteristics.
- 10. Although such cases are rare, for those with an extremely weak pulse or irregular pulse, errors may result which prevent proper measurement. If abnormal variations are noticed, consult with your physician or trained healthcare professional.
- 11. This device is intended for adult use. While taking a measurement, you can stop the inflation or deflation process of the cuff at any time by pressing the POWER button.

- 12. If any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user is established.
- 13. Do not expose the device to extreme temperatures, humidity dust or direct sunlight as this may cause it to malfunction.
- 14. Please comply with the storage and operating conditions defined in 'Technical Specification' . Storing or using the device outside of the specified temperature and humidity range can affect measurement accuracy or the function of the device.
- 15. If the device was not stored within the minimum/maximum permissible storage conditions, a waiting period of at least 2 hours must be observed before using it under the specified operating conditions ('Technical Specification') or an ambient temperature of approx. 20 °C.

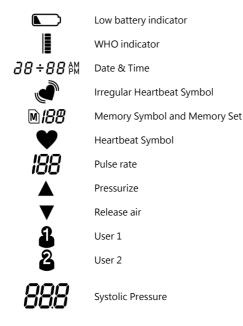
For Customer Service, the blood pressure monitor is calibrated when manufactured; it is recommended that the accuracy should be maintained and calibrated by manufacture triennially (every 3 years). To obtain the service please contact AViTA Corp. for the address of the repair location. Enclose with the Proof of Purchase. Include \$10.00 USD for the return shipping and handling. Accompany with a letter, with your name, address, phone number, and description of the specific problem or routine check-up. Pack the device carefully with bubble wraps (if there is) to prevent damages cause during transit. Due to possible losses in transit, it is recommended insuring the device with return receipt requested. If in any way of assistance of setting up, using, maintaining or to report unexpected operation/adverse events please contact manufacturer or local representative for further assistance.

Product Identification



- 1 Air socket
- 2 Memory button (M1 key)
- 3 Memory button (M2 key)
- 4 Start/Stop button (User 1 Power key)
- 5 Start/Stop button (User 2 Power key)
- 6 Display
- 7 Cuff
- 8 Cuff connector
- 9 Cuff tube

Description of LCD Display



Diastolic Pressure

Battery Installation

Low battery warning:

It is necessary to replace the batteries when the Low Battery symbol "appears on the display, or when the display does not turn on after the POWER key is pressed.

Replacing the Battery:

- 1. Press down on latch and lift the cover on the bottom of the monitor.
- Insert or replace 4x 1.5 V AAA batteries into the battery compartment, ensuring to match the indicated polarity symbols. Always use new batteries.
- 3. Replace the battery cover.

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

NOTE: Battery-operated

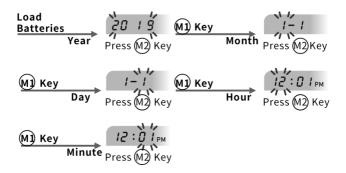
- 1. Please properly dispose of the batteries away from small children and heat. Avoid the children accidentally swallow the battery.
- 2. It is recommended to remove the batteries if the unit will not be used for more than 1 month.
- 3. Batteries must be disposed of in accordance with local environmental and institutional policies.
- 4. It is recommended not to use rechargeable, unqualified or different spec battery may damage the device or cause circuit shortcut.

Setting the Date and Time

It is necessary to set the date and time for the unit every time batteries are initially installed or replaced.

To set the date and time, proceed as follows:

- Loading 4 AAA alkaline batteries; the Year value will begin to flash on the display.
- Press the "M2" key to advance the display to the desired year, press the "M1" key to confirm the year.
- Next, the month will blink. Repeat step 2 to set the month and date, then hours, then minutes.
- After setting the minutes, the unit will automatically exit out of the date/time setting mode and shut off.



Placement of the Pressure Sleeve

It is important to avoid smoking, eating, taking medication, alcohol consumption or physical activity 30 minutes prior to taking a reading. If for any reason you are unable to or should not use your left arm, please modify the instructions for cuff application to your right arm. Your physician can help you identify which arm is best for you to take measurements from.

- 1. Remove any constrictive clothing or jewelry that may interfere with cuff placement.
- 2. Be seated at a table or desk with your feet flat on the floor.



3. The cuff should not be plugged into the monitor until after the cuff is applied to your arm.

Note:

Blood pressure naturally varies from one arm to the other; therefore, measure your blood pressure on the same arm to ensure comparability of the two readings.



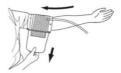
4. Position the cuff on a solid surface with the tubing facing up and away from you. The metal ring/bar on the cuff should be to the left of the tubing.



5. Open the cuff by pulling or rolling the bottom of the cuff to the right. This should open the cuff without fully unrolling it, creating a cylinder. Do not fully unwrap or unroll the cuff.



6. Insert your left arm into the created cuff cylinder.



7. The bottom edge of the cuff should be positioned approximately

one inch above the elbow joint.



8. Please reaching underneath your left arm with your right hand, pull the end of the cuff towards your body to tighten the cuff. Wrap and secure the cuff, making sure in place as shown.



9. The cuff should fit comfortably, yet snugly around your arm. You should be able to insert one finger easily between your arm and the cuff.



10. Insert the cuff into the monitor.

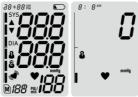


Note:

If you are not comfortable with applying your cuff, please seek the assistance of another member of your household or work with your physician to practice the cuff application. Incorrectly applied cuffs may result in inaccurate readings.

Measurement of Pulse Rate and Blood Pressure

1. Press the Start/Stop button (User 1 Power key or User 2 Power key) to turn the power on. After full display is shown, the unit displays the value "0".



- 2. After the self-test, the blood pressure monitor starts to measure. The cuff will automatically begin to inflate, with the display showing the increasing pressure in the cuff.
- 3. As the pressure increases, the indicator will increase upwards according to the pressure value on the display.
- 4. As the cuff inflates, the monitor automatically determines your ideal inflation level. This monitor detects your blood pressure and pulse rate during inflation.
- 5. To detect the heartbeat, the heartbeat symbol will appear and continuous flashes on the LCD display.



6. Your blood pressure measurement and pulse will display simultaneously on the screen.

- 7. The Hypertension Indicator will indicate your reading range on the display separately.
- 8. Press the Power key to turn the unit off and conserve energy and battery life.

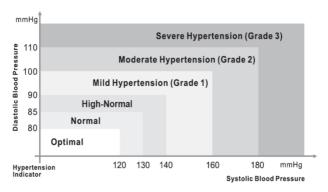
The unit will automatically shut-off approximately 2 minutes.

Note:

- 1. Users are recommended to use BPM924-00 daily at a fixed time, frequency of usage from 1 to 3 times can be suggested from physician or doctor' s advice.
- 2. Base on individual body condition the typical operation time takes approximately 30 seconds to 1 minute.

Hypertension Indicator

This unit features our unique Hypertension Indicator. The World Health Organization has established globally accepted standards for the assessment of high or low blood pressure readings. The below chart should be considered only as a guideline, always consult with your physician or health care professional to interpret your individual results.



Irregular Heartbeat Detector

Your digital blood pressure monitor features an Irregular Heartbeat Detector. This feature allows users to accurately monitor blood pressure even if an irregular heartbeat should occur. When an irregular heartbeat """ is detected, the icon will appear on the display.



Note:

Please consult with your physician or trained healthcare professional for further information regarding an irregular heartbeat and if this symbol appears frequently.

INPORTANT INFORMATION:

This blood pressure monitor is not designed for use by people with arrhythmias nor for diagnosing or treating an arrhythmia problem. As a safeguard, we recommend that if you have arrhythmias such as atrial or ventricular premature beats and atrial fibrillation or any other special conditions you should check with your physician before using your blood pressure monitor.

Memory Function

Recalling Measurements in Memory:

You can recall up to 100 measurements for each user, plus those average values stored measurements in memory to share with your physician or trained healthcare professional.

If you press the M1 or M2 key, the unit will first display the average of last 3 currently stored measurements. Continue to press the M key to successively view the average value of the morning measurements and evening measurements for the last 7 days will be displayed.

The duration of morning is AM5:00 – AM9:00, The duration of evening is PM6:00 – PM8:00

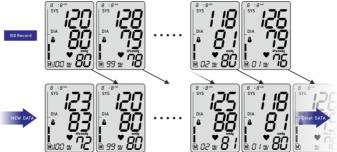


If you press the M1 or M2 key again, the measurements will appear on the display from most current to oldest. And the memory number will appear on the display.

All results for a given measurement will display, including measurement results, pulse rate, Hypertension Indicator, Irregular Heartbeat alert, and date/time stamp.

When the number of readings exceeds 100, the oldest data will be replaced with the new record.

Press the Power key to turn the unit off at any time when you check the stored measurements



Clearing Measurements from Memory:

From the memory mode, press and hold down the M1 or M2 key until the display shows CLr. This indicates that all measurements have been erased.

Error Codes

Err Code	Meaning	Corrective Action
Err 00	No pulse or detect pulses not enough.	Take off heavy clothes and retry again.
Err 01	The cuff is not fastened correctly, cuff pressure leakage or inflation too low or Overpressure protection.	The Arm cuff is not fastened properly. Re- apply the cuff, and take a measurement again.
Err 02	Inaccurate reading	Rest a while, relax and retry again.
Err 03	Inflation or deflation fail during the measurement	The Arm cuff is not fastened properly. Re- apply the cuff, and take a measurement again.
Err	Memory error.	Take off batteries to reboot the device, then take another measurement.
	Low batteries	Replace all batteries with new ones.

Troubleshooting

Problem	Probable Cause	Recommended Action
Nothing appears in	Batteries are drained.	Replace all batteries with
the display even when the power is	Pattony are not correctly	new ones. Reinsert batteries in the
turned on.	Battery are not correctly aligned with terminals.	correct position.
Low Battery	Batteries are drained.	Replace all batteries with
Symbol appears.	batteries are dramed.	new ones.
	In colder temperatures batteries have weaker electrical charges.	Warm up the batteries, or use the device in a warmer setting.
Device operation time is inconsistent.	Different battery brands have different life spans.	Use Alkaline batteries and replace all batteries at the same time with same brand batteries.
No reading after measurement.	Batteries are drained.	Replace all batteries with new ones.
Suspicious blood	Perhaps the cuff was	Adjust patient and Arm
pressure results.	improperly positioned.	cuff to measure.
	Blood pressure naturally varies throughout the day.	Rest a while, relax and measure again.
Suspicious pulse	Bodily movement during	Refrain from moving
rate results.	device use.	during measurement.
	Measurement shortly	Do not take
	after exercise or exposure	
	to the outdoors.	exercise or coming back from the outdoors.
Power switches off automatically.	System design.	Push the power button again, and then begin measure again.
During measuring, air re- inflates.	It could be a normal action if the user's blood pressure is higher than the initial pressure value, the device automatically pumps to a higher pressure by 40mmHg each time. The Arm cuff is not	Relax, and try to take a measure again. Check that the Arm cuff is
	fastened properly.	fastened properly and retake the measurement.

Cleaning and Disinfecting

- Only use a soft, damp cloth to clean the monitor. Please do not use thinner, alcohol, detergents or solvents.
- The cuff can be cleaned carefully using a slightly damp cloth and mild soap solution. Do not completely immerse the cuff in water.
- It is recommended to clean and disinfect the cuff regularly or after each use, especially when used by several users, to prevent infection. The cuff should be disinfected, particularly on the inside, by wiping with a disinfectant. Use a disinfectant that is compatible with the cuff materials, e.g. 75 % ethanol or isopropyl alcohol.
- Keep the monitor in the appropriate carriage to protect it from external influences. And store it at appropriate condition.

Technical Specification

- Measuring range : Blood Pressure : 30~280 mmHg Pulse Rate : 40~199 beats/min
- Calibration Accuracy: Blood Pressure : ± 3 mmHg Pulse rate : ± 4% of reading
- Operating environment : 10°C~40°C welf^{erc} 15% to 85% relative humidity (non-condensing) 700-1060 hPa ambient pressure
- Storage/ Transportation environment : -20 to 50 °C and for the storage of the stora
- Power Source : 4 x 1.5V LR03 (AAA) alkaline
- Weight : approx. 190g (exclude batteries) +/- 5%
- Dimensions : approx. 109.1 mm x 99.7 mm x 44.6 mm (L x W x H)
- Cuff circumference (M or M/L Size) : M Size (9" ~ 13") M/L Size (9" ~ 17")
- Lifetime : 3 years
- Expected service life : 10,000 measurements

Note: After 3 years life time or 10,000 measurements, device material may experience degradation, measurement accuracy may vary.

EMC Tables

BPM924-00 is intended for use in the electromagnetic environment specified below. The customer or the user of **BPM924-00** must make sure that it is used in such an environment.

Guidance and manufacturer's declaration - Electromagnetic emissions				
	CISPR 11		CISPR 11	
		Class A (Not BL		
Phenomenon			BLE Function)	
	Group 2 (Class A (With	Group 2 Class B (With	
	BLE Funct	tion)	BLE Function)	
Conducted and	Not applicable			
radiated RF MISSI	ONS (Note: Po	(Note: Power by Battery		
	or DC Inp	out)	,	
	Only the	AC input need	s	
	to be test		-	
Harmonic distortio	on Not appli	icable	•	
		(Note: Power by Battery or DC Input)		
		Only the AC input needs to be tested		
Voltage fluctuation				
and flickering	Group 1 (Group 1 Class A (Not BLE Function)		
- · · · · · · · · · · · · · · · · · · ·	Group 2 Class A (With BLE Function)			
a) The equipment is suitable for use in Home Health Environments and				
Professional Health Care Environments limited to patient rooms and				
			cs. The more restrictive	
acceptance limits of Group 1 Class B (CISPR 11) have been considered				
and applied. The e	quipment is sui	itable for use ir	the mentioned	
environments whe	and applied. The equipment is suitable for use in the mentioned environments when directly connected to the Public Mains Network.			
b) The test is not applicable in this environment unless the ME				
EQUIPMENT and ME SYSTEM used will be connected to the PUBLIC				
MAINS NETWORK and the power input is otherwise within the scope of				
the Basic EMC standard.				
Guidance and manufacturer's declaration - Electromagnetic immunity				
- Enclosure port				
	Basic EMC	Immunity test	levels	
	standard or		HOME HEALTHCARE	
	test method		ENVIRONMENT	
		facility		
		environment		
ELECTROSTATIC	IEC 61000-4-2	± 8kV contact	•	
LECTROSTATE				

DISCHARGE			±, ±8 kV, ±15 kV air
Radiated RF EM	IEC 61000-4-3	a)	10 V/m b) 80MHz - 2.7
fields			GHz 80% AM at 1kHz
Proximity fields	IEC 61000-4-3	COMPLIANT	
from RF wireless		NOTE: Further information about	
communications		distances to be maintained between	
equipment		portable and	mobile RF
			ons equipment
			and the BPM924-00
			sted from supplier using
			formation provided in
		this manual. However, it is advisable	
		to keep the equipment at an	
		adequate distance of, at least, 0.5 m	
		from mobile phones or other RF	
		communications transmitters to	
		minimise pos	sible interference.
RATED power	IEC 61000-4-8	30 A/m c)	
frequency		50 Hz or 60 H	Z
magnetic fields.			
a) The equipment is suitable for use in Home Health Environments and			
Professional Health Care Environments limited to patient rooms and			
respiratory treatment facilities in hospital or clinics. The more restrictive			
IMMUNITY acceptance limits have been considered and applied.			
b) Before modulation is applied.			
c) This test level assumes a minimum distance of at least 15 cm between			
the ME EQUIPMENT or ME SYSTEM and sources of power frequency			
magnetic fields.			

Explanation of Symbols

Symbol	Definition
CE 2797	The CE marking with the Registration Number of the Notified Body. This denotes the compliance of Regulation (EU) 2017/745
MD	Medical Device
	Manufacturer
EC REP	Authorized representative in the European Community
~~	Date of manufacture (YYYY-MM-DD or YYYY-MM)
LOT	Batch code (YYMMWWWW)
SN	Serial number (YYMWWWXXXXX)
Ť	Keep dry
1	Temperature limit

<u>(</u>	Humidity limitation
\$	Atmospheric pressure limitation
\triangle	Caution
&	Consult the instruction for use
X	Disposal information: Should you wish to dispose of the article, do so in accordance with current regulations. Details are available from your local authority. WEEE 2012/19/EU Directives
RoHS	This product fulfilling the requirements of the RoHS Directive 2011/65/EU.
REACH	This product fulfilling the requirements of the REACH Directive EC 1907/2006 and its amendments, do not contain Substances of Very High Concern in concentration above the limit of 0.1 %. No substance(s) is/are present in the parts of the product above the concentration of 0.1 % weight by weight.
Ċ	Stand-by
*	Device classification type BF

IP 22	This product meets the basic safety and essential performance requirements indicated in the IP22 conditioning test (protection against solid foreign objects of 12.5mm \emptyset and greater and against vertically falling water drops when enclosure tiled up to 15°)
X	The empty, completely flat batteries must be disposed of through specially designated collection boxes, recycling points or electronics retailers. You are legally required to dispose of the batteries.
	Importer
	Distributor
#	Model Number
	Country of Manufacturer
UDI	Unique Device Identifier
*	Keep away from sunlight

Electronic IFU available at http://www.avita.com.tw

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