Upper Arm Blood **Pressure Monitor**

BPM-617

Instruction Manual





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Intended use of the BPM carefully in order to accurately and safely utilize this device.

The BPM-617 measures blood pressure and heart rate and saves the results. It offers real-time clinically accurate readings that are simple and easy to read thanks to the Oscillometric Measuring method. This method measures blood pressure while the cuff is inflating thereby offering fast and accurate results. The inflation stops once the maximum blood pressure measurement has been achieved. This avoids any discomfort or excessive squeezing of the wrist.

Blood pressure measurements may be invalid or inaccurate if they are not performed in accordance with the instructions provided in this manual Please keep this manual handy for future reference. You can also find the digital version on www.iproven.com



screen and backlit

level of less than 48dB.

Proven

Professional Care Brought Home

Thank you for choosing iProven. Please read the instructions

The BPM-617 is an upper arm digital monitor that is used for measuring blood pressure and heart rate with an arm circumference ranging from $8\frac{3}{4}$ " - $16\frac{1}{2}$ " (22cm to 42cm). The device is intended for home use and adults only. The cuff should be maintained at the same level as the Close the battery cover.

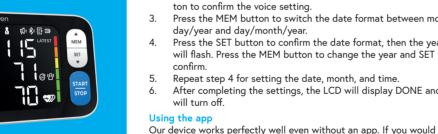
Special features

he BPM-617 comes with a user memory feature that can save up

to 250 measurements for two different users (500 total), aside Setting the date and time from a guest mode. You can sync your device with the app, to store an unlimited number of measurements. The device provides an average of the last three readings taken within 30 minutes so that you can keep to keep the voice mode on or off. track of your health and check for hypertension.

Upon completing a new measurement, it will also display your prior measurement for an easy instant comparison of readings. The voice broadcast mode (which can be switched on or off) makes it easy to know your results without having to check the screen.

The large 5.7" wide play help read resu easily, even in the da The device is FDA-ar also one of the quie devices with a noise



provided in the box.

This device can be used either with included batteries OR an AC adapter. There are 3 user IDs. User 1 and user 2, with memory storage of 250

- 1. Battery mode: Use 4 AA batteries as indicated
- 2. AC Adapter mode: Use the adapter cable included in the box with a 5V-1A charger

Note - The adapter cannot be used to charge or recharge the batteries

Open the battery cover. Insert four AA batteries as

- per the symbols in the battery
 - Take your blood pressure at the same time(s) every day.

pressure stabilize

Before using your device

For an accurate result and the best insight into your blood pressure pat-

tern, please measure using the same arm every time. It is recommended

Avoid hot drinks caffeine tobacco food alcohol and strenuous.

exercises at least 30 minutes before taking your blood pressure.

• Empty your bladder before taking your measurement.

to use the left arm which has a better blood flow.

Do not use the device in a cold environment

Installing the batteries

Firstly, ensure you set the time and date correctly so the device can record the results with the correct details. You can also choose whether Preparing the measuremen Before a measurement sit down and relax for 3 minutes. Let your blood

- With the monitor OFF, press and hold the SET button. It will Make sure you remove all accessories from the wrist and arm display the Bluetooth symbol x(bracelets, watch, etc) before strapping the cuff to your arm.
- Press the SET button again it will enter voice setting mode. You Roll up your sleeve to reveal the skin of your upper arm and ensure will hear "Voice on" or "Voice off". Press the MEM button to change your sleeve isn't too tight. it on or off and to increase the voice volume. Select the SET but-Hold your arm with your palm facing up and slide the cuff onto your upper arm approximately one inch above the bend in your
- Press the MEM button to switch the date format between month/ Position the tube off-center toward the inner side of the arm in
- Press the SET button to confirm the date format, then the year line with the little finger. Or position the artery mark on the cuff will flash. Press the MEM button to change the year and SET to over the main artery.
- Repeat step 4 for setting the date, month, and time.
- After completing the settings, the LCD will display DONE and it

like to use it with the app, please follow the instructions in the insert

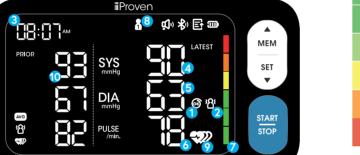
Fasten the cuff to your arm tightly but not painfully. There should readings each, and a guest user with no memory space. be a one-finger space between the cuff and your skin.

- When the display is off, press the SET button and the user ID will Ensure that your test arm is resting on a flat surface, with your show. Press it again to switch between the users - user 1, 2 or palm facing up. Sit comfortably with your back straight and supported.
- Press the START/STOP button to confirm the user ID and then Keep your feet flat on the floor and do not cross your leas. proceed to your measurement.

Breathe slowly 5 times and press the START/STOP button to begin After each measurement, the indicator shows the corresponding catethe measurement. Keep your arm still

- . First, the measured air pressure will calibrate to zero and then the
- cuff will inflate and start reading the blood pressure and heart rate. The symbol 1 6 should indicate OK meaning the cuff is cor-
- rectly secured. If the ? R flashes that means there's too much movement and you need to hold your arm still.
- When the measurement has been completed, the results will appear on the screen. The measurement is also saved in the memory.
- . Remove the cuff and switch off the monitor.

Understanding the results



The device is equipped with irregular heartbeat detection, IHB. The

Upon completing your measurement, you will see on the display 3 the date and time of your reading, 4 your systolic pressure, 5 diastolic pressure, 6 heart rate, 7 WHO blood pressure color indication, (8) user 1, 2 or quest who's taking the measurement, (9) if you have an irregular heartbeat (See "Irregular Heartbeat" section for more) and details of your 10 prior measurement.

Basic info about blood pressure Systolic pressure means that the ventricles contract and pump out

blood, increasing the blood pressure. This is sometimes referred to as the "higher number". The diastolic pressure means that the ventricles relax so the blood pressure decreases. This is sometimes referred to as the "lower number".

Blood Pressure

Category

Changes in blood pressure

"white coat effect".

gory color on the right of the display. The colors represent the different categories of the World Health Organisation blood pressure classification as depicted in the chart. The indicator helps you quickly interpret the results of the measurement

World Health Organization(WHO) and International Society of Hypertension(ISH)

Diastolic

mmHa (lower#)

And/Or 100-109

Optimal	less than 120	And	less than 80
Normal	120-129	And	80-84
High normal	130-139	Or	85-89
Mild hypertension	140-159	Or	90-99

algorithm of the device compares the longest and shortest intervals of

registered pulse waves (the time interval) and calculates the standard

If the device detects irregular heartbeat during consecutive measure-

There are many factors that cause fluctuations in blood pressure.

variations in blood pressure. Bear in mind that measuring in clinical

settings tends to cause blood pressure to increase. This is called the

Weather, emotions, stress, food, and physical activities, all these cause

deviation. If the differences in the time intervals are more than 25% you

have an irregular heartbeat and the IHB sign: will appear on the display.

- 4. Use the MEM and SET buttons to find the record you want to
- Press and hold the START/STOP button for 3 seconds
- 6. "DEL" will appear with "Y" blinking. Press the SET button to
 - If you don't want to delete it, press the MEM button to get "NO"
- "DONE" will appear, indicating that the selected stored data is

In case you want to delete ALL of your recorded measurements for one user, follow these steps:

When the device is in the memory function, select the user whose records you want to delete and press the SET button for 3

- "DEL" will appear on the screen and "AL" will be blinking
- Press the SET button to confirm.
- 4. "DONE" will show meaning all the selected stored data for that user is deleted.

Using the memory function Make sure that the date and time are set correctly.

(See "Setting up the device" section) Every measurement is automatically saved in the memory. It has

- a maximum capacity of 500 (250 x 2 users) measurements. To view the recorded data press the MEM button while the monitor
- Once the button is pressed one of the user symbols starts blinking. To switch to the other user, press the SET button. It will display the average value of the last 3 records first (if taken
- within a 30-minute period) and indicated by the AVG symbol. Use the MEM and SET buttons to go through the previous records.
- Note: The most recent record is shown first followed by the
- previous measurements.

Deleting the records

If you want to delete one of your recorded measurements, follow these

- Make sure the monitor is inactive; press the START/STOP button to put it off if needed
- Press MEM to go to Memory. One of the user symbols will start
- To switch to the other user press the SET button
- Higher than 180 And/or Higher than 12

ments and you are following the correct procedure, please consult your



Cuff

PCBA

Pump

mmhg

AVG

LATEST

Bluetooth icon

Voice broadcast

The latest record

PRIOR The Prior record

Valve

Air Hose

SYMBOL DESCRIPTION EXPLANATION Systolic blood pressure High pressure result Low pressure result PULSE/min Pulse display Pulse in beats per minute

Measurement Unit of the blood pressure

The average value of the blood pressure

he bluetooth icon blinks when the

Time(year:month:day:hour:minute)

Heartbeat dectection during measurement

Hand shaking makes results inaccurate

The function of voice broadcast is turned off

Indicates the capacity of the battery

bluetooth is working

The cuff is secured

User 1/2/Guest

Irregular heartbeat

Data is transmitting

The latest record

The Prior record

(Battery powered mode: 6VDC 4×AA batteries	ZE Caution
	AC adaptor powered mode: 5V == 1A	This device is intended for indoor, home use. * This device is not intended for public use.
Power supply	(Please only use the recommended AC adaptor model).	* This device is portable, but it is not intended
Display mode	Digital LCD V.A.124mm × 76mm	port. * This device is not suitable for continuous ma
Measurement mode	Oscillographic testing mode	gencies or operations.
Measurement range	Rated cuff pressure: 0mmHg~299mmHg Measurement pressure: SYS: 60mmHg~230mmHg DIA: 40mmHg~130mmHg Pulse value: (40-199)beat/minute	* This device is intended for non-invasive mea rial blood pressure. It is not intended for use arm, or for any purpose other than obtaining * This device is for adults. Do not use this devuse it on children unless otherwise instructed
Accuracy	Pressure: 5 C -40 C within±3 mmHg Pulse value:±5%	* Do not use on pregnant women, including pr * The device is not suitable for use on patient devices, such as cardiac pacemakers, defibrill
Normal working condition	A temperature range of :+5°C to +40°C A relative humidity range of 15% to 90%, non-condensing, but not requiring a water vapour partial pressure greater than 50 hPa An atmospheric pressure range of : 700 hPa to 1060 hPa	* The effectiveness of this device has not bee -on users with common arrhythmias such as a beats or atrial fibrillation, -on users with peripheral arterial disease, -on users undergoing intravascular therapy, or
Storage & transportation condition	Temperature:-20°C to +60°C A relative humidity range of ≤ 93%, non-condensing, at a water vapour pressure up to 50 hPa	Consult a medical professional before use. * Do not use this device for diagnosis or treat disease. Contact your physician if you have o
Measurement perimeter of the upper arm	About 22 cm ~ 32 cm, 22 cm ~ 42 cm	Do not change your medications without the health care professional.
Weight	Approx.325g (Excluding the batteries and cuff)	* If you are taking medication, consult your pl
External dimensions	Approx.174mm×100mm×41mm	time to measure your blood pressure.
Attachment	4×AA batteries,user manual,AC adapter	* This device may be used only for the intend
Mode of operation	Continuous operation	the manufacturer shall have no liability for an
Degree of protection	Type BF applied part	special damages caused by misuse or abuse.
Protection against ingress of water	IP21 It means the device could protected against solid foreign objects of 12.5mm and greater, and protect against vertically falling water drops.	* Report any unexpected operation or events * Do not apply the cuff on an arm that has an transfusion attached.
Device Classification	Battery Powered Mode: Internally Powered ME Equipment AC Adaptor Powered Mode: Class II ME Equipment	*Do not kink, fold, stretch, compress, or other measuring, as the cuff pressure might continu prevent blood flow and result injury.
Software Version	A01	*Taking blood pressure measurements too free

WARNING: No modification of this equipment is allowed.

- This device is not intended for public use. This device is portable, but it is not intended for use during patient transmeasurements on the unaffected side.

and discolored skin

- This device is not suitable for continuous monitoring during medical emerencies or operations.
- This device is intended for non-invasive measuring and monitoring of arteial blood pressure. It is not intended for use on extremities other than the arm, or for any purpose other than obtaining a blood pressure measurement.
- This device is for adults. Do not use this device on babies or infants. Do not ise it on children unless otherwise instructed by a medical professional.
- * Do not use on pregnant women, including pre-eclamptic, patients.
- * The device is not suitable for use on patients with implanted, electrical evices, such as cardiac pacemakers, defibrillators.
- The effectiveness of this device has not been established for use: on users with common arrhythmias such as atrial or ventricular premature during medical emergencies or operations.
- n users with peripheral arterial disease.
- Use the device according to the instructions of this manual to guarantee on users undergoing intravascular therapy, or with arteriovenous (AV) shunt. onsult a medical professional before use.
- * Do not use this device for diagnosis or treatment of any health problem or lisease. Contact your physician if you have or suspect any medical problem. o not change your medications without the advice of your physician or
- ealth care professional. f you are taking medication, consult your physician to determine the proper ime to measure your blood pressure.
- * This device may be used only for the intended use described in this manual. he manufacturer shall have no liability for any incidental, consequential, or pecial damages caused by misuse or abuse.
- Report any unexpected operation or events to the manufacturer. it in water or clean it with wet cloths. * Do not apply the cuff on an arm that has an intravenous drip or a blood Also, be careful not to shake or throw the device.
- Do not kink, fold, stretch, compress, or otherwise deform the tube during away from dust. neasuring, as the cuff pressure might continuously increase, which could prevent blood flow and result injury.
- Taking blood pressure measurements too frequently could disrupt blood The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare environcirculation and cause injuries.
- * Do not apply cuff to areas on patient where skin is delicate or damaged. Check cuff site frequently for irritation.
- or veins are undergoing medical treatment, i.e. intra-vascular access or

shunt, which could disrupt blood circulation and cause injuries.

- * Do not place the cuff on the arm on the same side of a mastectomy (es pecially when lymph nodes have been removed), it is recommended to take
- * Do not wrap the cuff on the same arm to which another monitoring device is applied. One or both devices could temporarily stop functioning if you try to use them at the same time.
- * Please check that the operation of the device does result in prolonged improper operation. impairment of patient blood circulation.
- * Warning: On the rare occasion of a fault causing the cuff to remain fully inflated during measurement, loosen and remove the cuff immediately. Prolonged high pressure applied to the arm (cuff pressure >300 mmHg or constant pressure >15 mmHa for more than 3 minutes) might lead to bruising this equipment could result.
- * Warning: Do not use this device with high-frequency (HF) surgical equipment at the same time. The unit should not be used for prolonged monitoring echnical descriptio 1. All necessary instructions for maintaining BASIC SAFETY and ESSENTIAL
- The cuff being inflated for a prolonged time will lead to numbness of the PERFORMANCE with regard to electromagnetic disturbances for the excepwrist and fingers, causing pain and ecchymosis ted service life
- efficient performance and durability of the device. The cuff complies with the requirements of ISO 10993- 5:2009 and ISO
- The cuff does not cause any potential allergic reaction or contact injury, but The signs below might be in the user manual, labeling, or other components.
- They are the requirement of standard and using. those allergic to polyester, nylon, or plastic may take caution. There is no need for calibration during the two years of guaranteed service.
- Make sure to place the device away from the sun. Store it in a dry place. When you want to clean the device, you should use a dry cloth. Do not place

 - For better performance, keep it in a room with a stable temperature and
 - The cuff should not be cleaned as it may affect the accuracy of the reading.

- * Warning: Do not place the cuff on the arm of a person whose arteries Warning: Don't be near the active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity intra-vascular therapy or an arteriovenous (A-V) of EM disturbances is high.

Warning: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use Emissions test is necessary, this equipment and the other equipment should be observed to verify that they are operating normally. Warning: Use of accessories, transducers, and cables other than those specified or provided by the manufac-RF emissions CISPR 11 turer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in

Warning: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 Harmonic emissions IEC 61000-3-2 cm (12 inches) to any part of the equipment TMB-2088-C including cables specified by the manufacturer. Otherwise, degradation of the performance of Voltage fluctuations flicker emissions

IEC 61000-3-3

| Symbol for "THE OPERATION | Symbol for "TYPE BF APPLIED PARTS" | Symbol for "TYPE BF APPLIED PARTS" Symbol for "ENVIRONMENT Symbol for "MANUFACTURER" PROTECTION - Electrical waste products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling Symbol for "DIRECT CURRENT" Date and Country For indoor use only Symbol for "Class II Equipmen Caution: These notes must be observed to prevent any damage to the device. Symbol for "Recycle"

2. Guidance and manufacturer's declaration - electro-magnetic emissions and

Guidance and manufacturer's declaration - electromagnetic emissions Group 1 RF emissions Class [B 1 CISPR 11 Class A

Comply

Guidance and manufacturer's declaration - electromagnetic Immunity

Compliance level

±2 kV, ±4 kV, ±8 kV, ±15 kV air

Immunity Test IEC 60601-1-2

Electrostatic

Test level

discharge (ESD) ±2 kV, ±4 kV, ±8 kV, ±15 kV air

This device complies with Part 15 of the FCC Rules. Operation is subject iProven owns and reserves the rights comprised in the copyright of to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received. including interference that may cause undesired operation.

IEC 61000-4-2	12 KV, 14 KV, 10 KV, 115 KV all	12 KV, 14 KV, 10 KV, 115 KV all	PROBLEM	SYMPTOM	CHECK
Electrical fast	±2 kV for power supply lines ±1 kV signal input/output	±2 kV for power supply lines Not Applicable		Display can	Batteries are
IEC 61000-4-4	100 kHz repetition frequency	100 kHz repetition frequency	No power	not light up.	Batteries are incorrectly.
Surge IEC61000-4-5	±0.5 kV, ±1 kV differential mode ±0.5 kV, ±1 kV, ±2 kV common mode	±0.5 kV, ±1 kV differential mode Not Applicable			Adapter is ins incorrectly.
Voltage dips, short	e dips, short 0% Ur; 0,5 cycle. At 0°, 45°, 90°, 135°, 0% Ur; 0,5 cycle. At 0°, 45°, 90°,	0% Uτ; 0,5 cycle. At 0°, 45°, 90°, 135°,	High Battery	bAt H shows	The battery is
voltage variations 0% UT; 1 cycle	180°, 225°, 270° and 315°. 0% Ut; 1 cycle and 70% Ut; 25/30 cycles; Single phase: at 0°.	180°, 225°, 270° and 315°. 0% Ut; 1 cycle and 70% Ut; 25/30 cycles; Single phase: at 0°.	Low Battery	bAt Lo shows	The battery is
input lines IEC 61000-4-11	0% Ur; 250 / 300 cycle	0% Ur; 250 / 300 cycle		E 1 shows	The cuff is no or wrapped in or the cuff air loose.
Power frequency magnetic field IEC 61000-4-8	50 Hz / 60 Hz	50 Hz / 60 Hz	Error	E 2 shows	Excessive book
Conduced RF	3 V 0,15 MHz – 80 MHz	3 V 0,15 MHz – 80 MHz	message		or weak Pulse detected.
IEC61000-4-6	6 V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 80% AM at 1 kHz	6 V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 80% AM at 1 kHz		E 3 shows	Pulse is not d during measu
Radiated RF	10 V/m 80 MHz – 2.7 GHz	10 V/m 80 MHz – 2.7 GHz		E 4 shows	The measure failed.
NOTE U _T is the a.	80% AM at 1 kHz c. mains voltage prior to application of the	80% AM at 1 kHz		EEx shows	Hardware erro (X can be son symbol, such etc.)

unit by yourself.

	Display can	Batteries are depleted.	Replace with new batteries.
No power	not light up.	Batteries are inserted incorrectly. Insert the batteries correctly.	
		Adapter is inserted incorrectly.	Insert the AC adapter correctly.
High Battery	bAt H shows	The battery is too high.	Replace with new batteries.
Low Battery	bAt Lo shows	The battery is too low.	Replace with new batteries.
	E 1 shows	The cuff is not wrapped or wrapped incorrectly, or the cuff air plug is loose.	Refasten the cuff and insert air tube plug correctly then measure again.
Error message	E 2 shows	Excessive body motion (such as shaking of the arm with the cuff on) or weak Pulse is detected.	Relax for 5 minutes. and then keep still, measure again.
	E 3 shows	Pulse is not detected during measuring.	Loosen the clothing on the arm and measure again.
	E 4 shows	The measurement failed.	Relax for 5 minutes and measure again.
	EEx shows	Hardware error (X can be some digital symbol, such as 1, 2, 3, etc.)	Turn off monitor and measure again. If EEx still appears on the display, please contact the retailer or our customer service.
	Err & Usb shows	Adapter error	Replace with the authorized adapter.
Warning	Out shows	Out of measurement	Relax for a moment and

NOTE: If the product still does not work, contact our Customer Service.

Under no circumstance should you disassemble or attempt to repair the

REMEDY

then measure again. If the

problem persists, contact

vour physician.

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