User Manual

Blood Pressure Monitor UAM-901



- Thank you very much for selecting ZEWA Blood Pressure Monitor UAM-901
- Please read the user manual carefully and thoroughly to ensure the safe usage of this
 product. Keep the manual well for further reference in case you have problems.

Manufactured for Zewa, Inc. 12960 Commerce Lakes Drive#29 Fort Myers, FL 33913 USA www.zewa.com Toll Free Customer Service: 1-888-993-3592 warranty@zewa.com

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General Description

Thank you for selecting ZEWA arm type blood pressure monitor (UAM-901). The monitor features blood pressure measurement, pulse rate measurement and the result storage. The design provides you with two years of reliable service.

Readings taken by the UAM-901 are equivalent to those obtained by a trained observer using the cuff and stethoscope auscultation method.

This manual contains important safety and care information, and provides step by step instructions for using the product.

Read the manual thoroughly before using the product.

Features:

- 60*74mm Digital LCD display
- Maximum 120 records per each user
- Measuring during inflation technology

Indications for Use

The ZEWA Blood Pressure Monitor is a digital monitor intended for use in measuring blood pressure and heartbeat rate with arm circumference ranging from 22cm to 42cm(about 8%"-16½"). It is intended for adult indoor use only.

Contraindications

1. The device should not be used by any person who may be suspected of, or is pregnant . 2. The device is not suitable for use on patients with implanted, electrical devices, such as cardiac pacemakers, defibrillators.

Measurement Principle

This product uses the Oscillometric Measuring method to detect blood pressure. Before every measurement, the unit establishes a "zero pressure" equivalent to the atmospheric pressure. Then it starts inflating the arm cuff, meanwhile, the unit detects pressure oscillations generated by beat-to-beat pulsatile, which is used to determine the systolic and diastolic pressure, and also pulse rate.

Safety Information

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

6	Symbol for "THE OPERATION GUIDE MUST BE READ"	*	Symbol for "TYPE BF APPLIED PARTS"
SN	Symbol for "SERIAL NUMBER"		Symbol for "ENVIRONMENT PROTECTION - Electrical waste
===	Symbol for "DIRECT CURRENT"	X	products should not be disposed of with household waste. Please recycle where facilities exist. Check with your
ED.	Symbol for "RECYCLE"		local authority or retailer for recycling advice"
	Caution: These notes must be observed to prevent any damage to the device.	~~	Symbol for "MANUFACTURE DATE"

INTRODUCTION

– 🕂 CAUTION

* This device is intended for adult use in homes only.

* The device is not suitable for use on neonatal patients, pregnant women, patients with implanted, electronical devices, patients with pre-eclampsia, premature ventricular beats, atrial fibrillation, peripheral, arterial disease and patients undergoing intravascular therapy or arterio-venous shunt or people who received a mastectomy. Please consult your doctor prior to using the unit if you suffer from illnesses.

* The device is not suitable for measuring the blood pressure of children. Ask your doctor before using it on older children.

* The device is not intended for patient transport outside a healthcare facility.

* The device is not intended for public use.

* This device is intended for no-invasive measuring and monitoring of arterial blood pressure. It is not intended for use on extremities other than the arm or for functions other than obtaining a blood pressure measurement.

* Do not confuse self-monitoring with self-diagnosis. This unit allows you to monitor your blood pressure.Do not begin or end medical treatment without asking a physician for treatment advice.

* If you are taking medication, consult your physician to determine the most appropriate time to measure your blood pressure. Never change a prescribed medication without consulting your physician.

* Do not take any therapeutic measures on the basis of a self measurement. Never alter the

- 🕂 CAUTION

dose of a medicine prescribed by a doctor. Consult your doctor if you have any question about your blood pressure.

* When the device is used to measure patients who have common arrhythmias such as atrial or ventricular premature beats or atrial fibrillation, the best result may occur with deviation. Please consult your physician about the result.

* Don't kink the connection tube during use, otherwise, the cuff pressure may continuously increase which can prevent blood flow and result in harmful injury to the PATIENT.

* When using this device, please pay attention to the following situation which may interrupt blood flow and influence blood circulation of the patient, thus cause harmful injury to the patient: connection tubing kinking too frequent and consecutive multiple measurements; the application of the cuff and its pressurization on any arm where intravascular access or therapy, or an arterio-venous (A-V) shunt, is present; inflating the cuff on the side of a mastectomy.

* Warning: Do not apply the cuff over a wound;otherwise it can cause further injury. *Do not inflate the cuff on the same limb which other monitoring ME equipment is applied around simultaneously, because this could cause temporary loss of function of those simultaneously-used monitoring ME equipment.

*On the rare occasion of a fault causing the cuff to remain fully inflated during measurement, open the cuff immediately. Prolonged high pressure (cuff pressure > 300mmHg or constant pressure > 15mmHg for more than 3 minutes) applied to the arm may lead to an ecchymosis.

*Please check that operation of the device does not result in prolonged impairment of patient blood circulation.

* When measurement, please avoid compression or restriction of the connection tubing.
 * The device cannot be used with HF surgical equipment at the same time.

* The ACCOMPANYING DOCUMENT shall disclose that the SPHYGMOMANOMETER was clinically investigated according to the requirements of ISO 81060-2:2013.

* To verify the calibration of the AUTOMATED SPHYGMOMANOMETER, please contact the manufacturer.

* This device is contraindicated for any female who may be suspected of, or is pregnant. Besides providing inaccurate readings, the effects of this device on the fetus are unknown.

* Too frequent and consecutive measurements could cause disturbances in blood circulation and injuries.

* This unit is not suitable for continuous monitoring during medical emergencies or operations. Otherwise, the patient's arm and fingers will become anaesthetic, swollen and even purple due to a lack of blood.

* When not in use, store the device in a dry room and protect it against extreme moisture, heat, lint, dust and direct sunlight. Never place any heavy objects on the storage case.

* This device may be used only for the purpose described in this booklet. The manufacturer cannot be held liable for damage caused by incorrect application.

*This device comprises sensitive components and must be treated with caution. Observe

- 🕂 CAUTION

the storage and operating conditions described in this booklet.

* The equipment is not AP/APG equipment and not suitable for use in the presence of a flammable anesthetic mixture with air of with oxygen or nitrous oxide.

* Warning: No servicing/maintenance while the ME equipment is in use.

* The patient is an intended operator.

* The patient can measure data and change batteries under normal circumstances and maintain the device and its accessories according to the user manual.

* To avoid measurement errors, please avoid the condition of strong electromagnetic field radiated interference signal or electrical fast transient/burst signal.

* The blood pressure monitor and the cuff are suitable for use within the patient environment. If you are allergic to polyester, nylon or plastic, please don't use this device. * During use, the patient will be in contact with the cuff. The materials of the cuff have been tested and found to comply with requirements of ISO 10993-5:2009 and ISO

10993-10:2010. It will not cause any potential sensation or irritation reaction.

* Adaptor is specified as a part of ME EQUIPMENT.

* If you experience discomfort during a measurement, such as pain in the arm or other complaints, press the START/STOP button to release the air immediately from the cuff. Loosen the cuff and remove it from your arm.

* If the cuff pressure reaches 40 kPa (300 mmHg), the unit will automatically deflate. Should the cuff not deflate when pressure reaches 40 kPa (300 mmHg), detach the cuff

– 🕂 CAUTION

from the arm and press the START/STOP button to stop inflation.

* Before use, make sure the device functions safely and is in proper working condition. Check the device, do not use the device if it is damaged in any way. The continuous use of a damaged unit may cause injury, improper results, or serious danger.

* Do not wash the cuff in a washing machine or dishwasher!

* The service life of the cuff may vary by the frequency of washing, skin condition, and storage state. The typical service life is 10000 times.

 * It is recommended that the performance should be checked every 2 years and after maintenance and repair, by retesting at least the requirements in limits of the error of the cuff pressure indication and air leakage (testing at least at 50mmHg and 200mmHg).
 * Please dispose of ACCESSORIES, detachable parts, and the ME EQUIPMENT according to the local guidelines.

* Manufacturer will make available on request circuit diagrams, component part lists, descriptions, calibration instructions, etc., to assist to service personnel in parts repair.

* The plug/adapter plug pins insulate the device from the main supply. Do not position the device in a position where it is difficult to disconnect from the supply mains to safely terminate operation of ME equipment.

* The operator shall not touch output of batteries/adapter and the patient simultaneously. * Cleaning :Dust environment may affect the performance of the unit. Please use the soft cloth to clean the whole unit before and after use. Don't use any abrasive or volatile

cleaners.

* The device doesn't need to be calibrated within two years of reliable service.

* If you have any problems with this device, such as setting up, maintaining or using, please contact the SERVICE PERSONNEL of ZEWA. Don't open or repair the device by yourself in the event of malfunctions. The device must only be serviced, repaired and opened by individuals at authorized sales/service centers.

* Please report to ZEWA. if any unexpected operation or events occur.

* Keep the unit out of reach of infants, young children or pets to avoid inhalation or swallowing of small parts. It is dangerous or even fatal.

* Be careful to strangulation due to cables and hoses, particularly due to excessive length. * At least 30 min required for ME equipment to warm from the minimum storage temperature between uses until it is ready for intended use. At least 30 min required for ME equipment to cool from the maximum storage temperature between uses until it is ready for intended use.

* This equipment needs to be installed and put into service in accordance with the information provided in the ACCOMPANYING DOCUMENTS;

* Wireless communications equipment such as wireless home network devices, mobile phones, cordless telephones and their base stations, walkie-talkies can affect this equipment and should be kept at least a distance d away from the equipment. The distance d is calculated by the MANUFACTURER from the 80MHz to 5.8 GHz column of Table 4 and

– 🕂 CAUTION

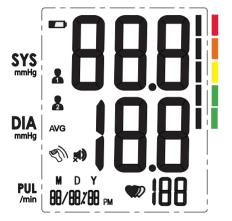
Table 9 of IEC 60601-1-2:2014, as appropriate.

* Please use ACCESSORIES and detachable parts specified/ authorised by MANUFAC-TURE. Otherwise, it may cause damage to the unit or danger to the user/patients.

* There is no luer lock connectors are used in the construction of tubing, there is a possibility that they might be inadvertently connected to intravascular fluid systems, allowing air to be pumped into a blood vessel.

* Please use the device under the environment which is provided in the user manual. Otherwise, the performance and lifetime of the device will be impacted and reduced.

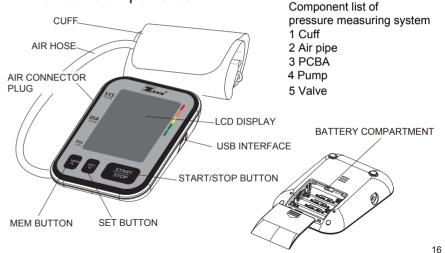
LCD Display Signal



SYMBOL DESCRIPTION		EXPLANATION
SYS	Systolic blood pressure	High blood pressure
DIA	Diastolic blood pressure	Low blood pressure
PUL /min	Pulse display	Pulse in beats per minute
AVG	Average value	The average value of blood pressure
E V	Memory	Indicate it is in the memory mode and which group of memory it is.
€¶]	Motion indicator	Motion may result in an inaccurate measurement
mmHg	mmHg	Measurement Unit of the blood pressure (1mmHg=0.133kPa)
	Low battery	Batteries are low and need to be replaced
	Irregular heartbeat	Blood pressure monitor is detecting an irregular heartbeat during measurement.

SYMBOL	DESCRIPTION	EXPLANATION
	Blood pressure level indicator	Indicate the blood pressure level
м d y 88/88/88 рм	Current Time	Month/Day/Year, Hour/Minute
•	Heartbeat	Blood pressure monitor is detecting a heartbeat during measurement.
-	User 1	Start measurement for User 1
2	User 2	Start measurement for User 2
,	The voice switch	Indicating voice switch

Monitor Components

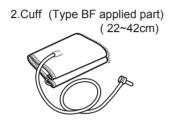


BEFORE YOU START

♥ List

1.Blood Pressure Monitor (UAM-901)





3.4*AAA batteries



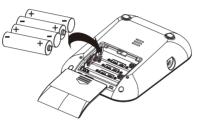
4.User manual

The Choice of Power Supply 1.Battery powered mode: 6VDC 4*AAA batteries 2. AC adaptor powered mode: 5V == 1A Please use the AC adaptor and USB cable just like the following picture(not included):

AC adaptor

In order to get the best effect and protect your monitor, please use the right battery and special power adaptor which complies with local safety standard.

- Installing and Replacing the Batteries
- · Slide off the battery cover.
- Install the batteries by matching the correct polarity, as shown.
- · Replace the battery cover.



Replace the batteries whenever the below happens

•The Lo+ m shows

•The display is dim

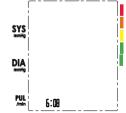
• The display does not light up

- Do not use new and used batteries together.
- Do not use different types of batteries together.
- Do not dispose the batteries in fire. Batteries may explode or leak.
- Remove batteries if the device is not likely to be used for some time.
- Worn batteries are harmful to the environment. Do not dispose with daily garbage.
- Remove the old batteries from the device following your local recycling guidelines.

♥ Setting Date, Time

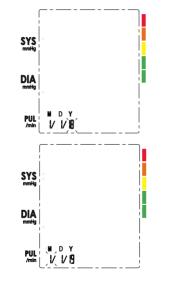
It is important to set the clock before using your blood pressure monitor, so that a time stamp can be assigned to each record that is stored in the memory. (The setting range of the year :2018—2058 time:12 H)

1.When the monitor is off, presse "SET" button shortly it will display the time.Then press "SET" button for 3 seconds to enter the mode for year setting.

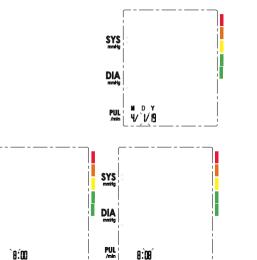


2.Press "MEM" button to change the [YEAR]. Each press will increase the numeral by one in a cycling manner.

3. When you get the right year, press "SET" button to set down and turn to next step.



BEFORE YOU START



4.Repeat steps 2 and 3 to

5.Repeat steps 2 and 3 to

set the [HOUR] and [MINUTE].

SYS

DIA

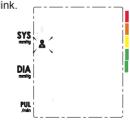
PUL /min

set the [MONTH] and [DAY].

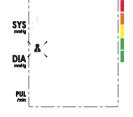
6.After the [MINUTE] is set, the LCD will display "donE" first,then display all the settings you have done and then it will turn off.



- Select the User
- 1. When the monitor is off, press and hold "MEM "button to enter user setting mode. The user ID will blink.

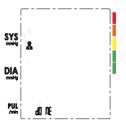


2. Then press " MEM " button again, select the user ID between user 1 and user 2 .



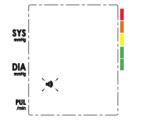
BEFORE YOU START

 After selecting the suitable user ID, press "SET" button to confirm. It will display "User ID+ donE" and then turn off.

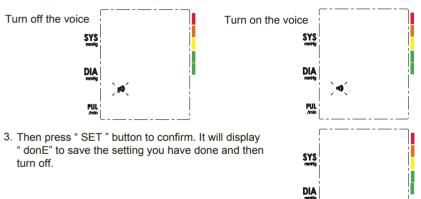


BEFORE YOU START

- Turn on or turn off the voice
- 1. When the monitor is off, press and hold "MEM " button and "SET " button to enter the mode for turn on or turn off the voice. The trumpet will blink.



2. Press "MEM " button again to select turn on or turn off the voice. It will speak " Voice on" or "Voice off " at the same time.



PUL /min

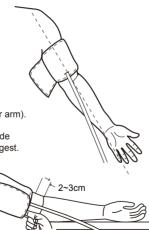
d0 NE

MEASUREMENT

MEASUREMENT

♥ Tie the Cuff

- Remove all jewelry, such as watches and bracelets from your left arm.Note: If your doctor has diagnosed you with poor circulation in your left arm, use your right arm.
- 2. Roll or push up your sleeve to expose the skin. Make sure your sleeve is not too tight.
- 3. Hold your arm with your palm facing up and the cuff on your upper arm, then position the tube off-center toward the inner side of arm in line with the little finger. Or position the artery mark of over the main artery (on the inside of your arm). Note: Locate the main artery by pressing with 2 fingers approximately 2 cm above the bend of your elbow on the inside of your left arm. Identify where the pulse can be felt the strongest. This is your main artery.
- 4. The cuff should be snug but not too tight. You should be able to insert one finger between the cuff and your arm.
- Sit comfortably with your tested arm resting on a flat surface. Place your elbow on a table so that the cuff is at the same level as your heart. Turn your palm upwards. Sit upright in a chair, and take 5-6 deep breaths.



- 6. Helpful tips for Patients, especially for Patients with Hypertension:
- Rest for 5 minutes before first measurement.
- Wait at least 3 minutes between measurements. This allows your blood circulation to recover.
- · Take the measurement in a silent room.
- The patient must relax as much as possible and do not move and talk during the measurement procedure.
- The cuff should maintain at the same level as the right atrium of the heart.
- Please sit comfortably. Do not cross your legs and keep your feet flat on the ground.
- Keep your back against the backrest of the chair.
- For a meaningful comparison, try to measure under similar conditions. For example, take daily measurements at approximately the same time, on the same arm, or as directed by a physician.



MEASUREMENT

• Start the Measurement

 When the monitor is off, press "Start/Stop" button to turn on the monitor, and it will finish the whole measurement. (When the volume is on,it will speak "Starting measurement, please remain still and quiet" first, and then complete the measurement process.)



LCD display



Adjust the zero.



Inflating and measuring.



2.Press "Start/Stop" button to power off, otherwise it will turn off within 1 minute.

Display and save the results.(When the volume is on, It will broadcast your measuring result.)





MEASUREMENT

DATA MANAGEMENT

DATA MANAGEMENT

Recall the Records

1. When the monitor is off. please press "MEM" button to show the recent record. If the records are less than 3 groups, it will display the latest record instead. Take user 1 for example. (When the volume is on, it will read the number for you)



2. Press "MEM" button or "SET" button to get the record you want. (When the volume is on. it will read the number for you)

The date and time of the record will be shown alternately.

The current No. is No. 1.

MDY 1/1/19

A



The corresponding date is 2019 vear July 1st.



DATA MANAGEMENT

The most recent record (1) is shown first. Each new measurement is assigned to the first (1) record. All other records are pushed back one digit (e.g., 2 becomes 3, and so on), and the last record (120) is dropped from the list.

♥ Delete the Records

If you did not get the correct measurement, you can delete results by following steps below.

A: Delete one record

1.Hold pressing "set" button (except the AVG) for 3 seconds when the monitor is in the memory recall mode, the flash display "dEL one+User ID" will



2.Press and hold "Start/stop" button to confirm deleting and the monitor will display "dEL donE+User ID" and then the device will show the latest record. (When the volume is on, it will read the number for you)

Note: To exit out the delete mode press "Start/Stop" button shortly before you press and hold "Start/stop" button.







show.

DATA MANAGEMENT

B: Delete all records

1.Hold pressing "MEM" button for 3 seconds when the monitor is in the memory recall mode, the flash display "dEL ALL+User ID" will show.



2.Press and hold "Start/stop" button to confirm deleting and the monitor will display "dEL donE+USER ID" and then turn off.

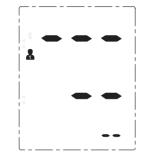
a dEL

Note: To exit out the delete mode press "Start/Stop" button shortly before you press and hold "Start/stop" button.



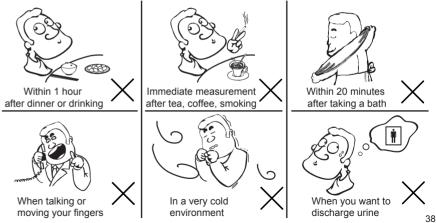
DATA MANAGEMENT

3. If there is no record, the right display will show.



Tips for Measurement

Measurements may be inaccurate if taken in the following circumstances.



INFORMATION FOR USER

Maintenance

Please calibrate the blood pressure monitor in specific institute once every two years to ensure the precise measurement. In order to get the best performance, please follow the instructions below for storage.



Put in a dry place and avoid the sunshine



Avoid touching water, clean it with a dry cloth in case.



Avoid dusty and unstable temperature environment



Using wet cloths to remove dirt

Avoid intense shaking and collisions



Do not attempt to clean the reusable cuff with water and never immerse the cuff in water.

What are systolic pressure and diastolic pressure?

When ventricles contract and pump blood out of the heart, the blood pressure reaches its maximum value in the cycle, which is called systolic pressure. When the ventricles relax, the blood pressure reaches its minimum value in the cycle, which is called diastolic pressure.



ABOUT BLOOD PRESSURE

Diastolic-

blood entering

• What is the standard blood pressure classification?

The chart on the right is the standard blood pressure classification published by American Heart Association (AHA).

(This chart reflects blood pressure	categories defined b	y America	an Heart Association.
	Blood Pressure Category	Systolic mmHg (upper#)		Diastolic mmHg (lower#)
ľ	Normal	less than 120	and	less than 80
	Elevated	120-129	and	less than 80
	High Blood Pressure (Hypertension) Stage 1	130-139	or	80-89
	High Blood Pressure (Hypertension) Stage 2	140 or higher	or	90 or higher
	Hypertensive Crisis Consult your doctor immediately)	Higher than 180	and/or	Higher than 120



ABOUT BLOOD PRESSURE

- 🕂 CAUTION-

Please consult a physician if your measuring result falls outside the range. Please note that only a physician can tell whether your blood pressure value has reached a dangerous point.

♥ Irregular Heartbeat Detector

An irregular heartbeat is detected when a heartbeat rhythm varies while the device is measuring systolic pressure and diastolic pressure. During each measurement, blood pressure monitor will keep a record of all the pulse intervals and calculate the average value of them. If there are two or more pulse intervals , the difference between each interval and the average is more than the average value of $\pm 25\%$, or there are four or more pulse interval and the average is more than the average value of $\pm 25\%$, or there are four or more pulse intervals, the difference between each interval and the average is more than the average value of $\pm 15\%$, then the irregular heartbeat symbol will appear on the display with the measurement result.

The appearance of the IHB icon indicates that a pulse irregularity consistent with an irregular heart-beat was detected during measurement. Usually this is NOT a cause for concern. However, if the symbol appears often, we recommend you seek medical advice. Please note that the device does not replace a cardiac examination, but serves to detect pulse irregularities at an early stage.

Why does my blood pressure fluctuate throughout the day?

1. Individual blood pressure varies multiple times everyday. It is also affected by the way you tie your cuff and your measurement position, so please take the measurement under the same conditions.

2.If the person takes medicine, the pressure will vary more.

3.Wait at least 3 minutes for another measurement.



TROUBLESHOOTING

ABOUT BLOOD PRESSURE

Why do I get a different blood pressure at home compared to the hospital?

The blood pressure is different even throughout the day due to weather, emotion, exercise etc, Also, there is the "white coat" effect, which means blood pressure usually increases in clinical settings.

Is the result the same if measuring on the right arm?

It is ok for both arms, but there will be some different results for different people. We suggest you measure the same arm every time. What you need to pay attention to when you measure your blood pressure at home: If the cuff is tied properly. If the cuff is too tight or too loose.

If the cuff is tied on the upper arm. If you feel anxious.

Taking 2-3 deep breaths before beginning will be better for measuring. Advice: Relax yourself for 4-5 minutes until you calm down.



This section includes a list of error messages and frequently asked questions for problems you may encounter with your blood pressure monitor. If the product is not operating as you think it should, check here before arranging for servicing.

PROBLEM	SYMPTOM	CHECK THIS	REMEDY
	Display will not	Batteries are exhausted.	Replace with new batteries
No power	light up.	Batteries are inserted incorrectly.	Insert the batteries correctly
		AC adaptor is inserted incorrectly.	Insert the AC adaptor tightly
Low batteries	Display is dim or show	Batteries are low.	Replace with new batteries
	E 01 shows	The cuff is too tight or too loose.	Refasten the cuff and then measure again.
	E 02 shows	The monitor detected motion, talking,or the pulse is too poor while measuring.	Relax for a moment and then measure again.

TROUBLESHOOTING

SPECIFICATIONS

Error message	E 03 shows	The measurement process does not detect the pulse signal.	Loosen the clothing on the arm and then measure again.
	E 04 shows	The treatment of the measurement failed.	Relax for a moment and then measure again.
	EExx,shows on the display.	A calibration error occurred.	Retake the measurement. If the problem persists, contact the retailer or our customer service department for further assistance. Refer to the warranty for contact information and return instructions.
Warning message	out shows	Out of measurement range	Relax for a moment. Refasten the cuff and then measure again. If the problem persists, contact your physician.

Power supply	Battery powered mode: 6VDC 4*AAA batteries AC adaptor powered mode: 5V1A (Not included) (Please only use the recommended AC adaptor model).
Display mode	Digital LCD display V.A.2.36"X2.91"(60mm*74mm)
Measurement mode	Oscillographic testing mode
Measurement range	Rated cuff pressure: 0mmHg~299mmHg(0kPa ~ 39.9kPa) Measurement pressure: SYS: 60mmHg~230mmHg (8.0kPa~30.7kPa) DIA: 40mmHg~130mmHg (5.3kPa~17.3kPa) Pulse value: (40-199)beat/minute
Accuracy	Pressure: 41°F-104°F (5°C-40°C) within±3mmHg(0.4kPa) Pulse value:±5%
Normal working condition	A temperature range of :+41°F to +104°F(+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

SPECIFICATIONS

Storage & transportation condition	Temperature:-4°F to +140°F (-20°C to +60°C) A relative humidity range of ≤ 93%, non-condensing, at a water vapour pressure up to 50hPa
Measurement perimeter of the upper arm	About 8.66"~16.53" (22cm~42cm)
Net Weight	Approx.173g(Excluding the batteries)
External dimensions	Approx. 3.66"X5.12"X1.28"(93mm*130mm*32.5mm)
Attachment	4*AAA batteries,user manual
Mode of operation	Continuous operation
Device Classification	Battery Powered Mode: Internally Powered ME Equipment AC Adaptor Powered Mode: Class II ME Equipment
Degree of protection	Type BF applied part
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.
Software Version	A01

WARNING: No modification of this equipment is allowed.

AUTHORIZED COMPONENTS

Authorized Components

1.Please use the manufacturer authorized AC adaptor (Adapter and USB cable are not included)



Adapter Input:100~240V,50~60Hz,0.2Amax Output:5V ---- 1000mA BLJ06L050100U-U

AUTHORIZED COMPONENTS

Contact Information

For more information about our products, please visit www.zewa.com.you can get customer service, usual problems and customer download, Zewa will serve you anytime.

Manufactured for Zewa, Inc. 12960 Commerce Lakes Drive#29 Fort Myers, FL 33913 USA www.zewa.com Toll Free Customer Service: 1-888-993-3592 warranty@zewa.com

♥ FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject 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.

Complied Standards List

Risk management	EN ISO 14971:2012 / ISO 14971:2007 Medical devices - Application of risk management to medical devices
Labeling	EN ISO 15223-1:2016 / ISO 15223-1:2016 Medical devices. Symbols to be used with medical device labels, labelling and information to be supplied. Part 1 : General requirements
User manual	EN 1041:2008 +A1:2013 Information supplied by the manufacturer of medical devices
General Requirements for Safety	EN 60601-1:2006+A1:2013/ IEC 60601-1:2005+A1:2012 Medical electrical equipment - Part 1: General requirements for basic safety and essential performance EN 60601-1-11:2015/ IEC 60601-1-11:2015 Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment
Electromagnetic compatibility	EN 60601-1-2:2015/ IEC 60601-1-2:2014 Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic disturbances - Requirements and tests
Performance requirements	EN ISO 81060-1:2012 Non-invasive sphygmomanometers - Part 1: Requirements and test methods for non-automated measurement type

COMPLIED STANDARDS LIST

Performance requirements	EN 1060-3:1997+A2:2009 Non-invasive sphygmomanometers - Part 3: Supplementary requirements for electro-mechanical blood pressure measuring systems IEC 80601-2-30:2009+A1:2013 Medical electrical equipment- Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers
Clinical investigation	EN 1060-4:2004 Non-invasive sphygmomanometers - Part 4: Test procedures to determine the overall system accuracy of automated non-invasive sphygmomanometers ISO 81060-2:2013 Non-invasive sphygmomanometers - Part 2: Clinical validation of automated measurement type
Usability	EN 60601-1-6:2010+A1:2015/IEC 60601-1-6:2010+A1:2013 Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability IEC 62366-1:2015 Medical devices - Part 1: Application of usability engineering to medical devices
Software life-cycle processes	EN 62304:2006/AC: 2008 / IEC 62304: 2006+A1:2015 Medical device software - Software life-cycle processes
Bio-compatibility	ISO 10993-1:2009 Biological evaluation of medical devices- Part 1: Evaluation and testing within a risk management process ISO 10993-5:2009 Biological evaluation of medical devices - Part 5: Tests for in vitro cytotoxicity ISO 10993-10:2010 Biological evaluation of medical devices - Part 10: Tests for irritation and skin sensitization

EMC GUIDANCE

EMC Guidance

The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare environments

Warning: Don't near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity 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 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 manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation."

Warning: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the equipment UAM-901, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Technical description:

1, all necessary instructions for maintaining BASIC SAFETY and ESSENTIAL PERFORMANCE with regard to electromagnetic disturbances for the excepted service life.

2, Guidance and manufacturer's declaration -electromagnetic emissions and Immunity

EMC GUIDANCE

Table 1

Guidance and manufacturer's declaration - electromagnetic emissions				
Emissions test	Compliance			
RF emissions CISPR 11	Group 1			
RF emissions CISPR 11	Class [B]			
Harmonic emissions IEC 61000-3-2	Class A			
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Comply			

Table 2

Guidance and manufacturer's declaration – electromagnetic Immunity				
Immunity Test	IEC 60601-1-2 Test level	Compliance level		
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4kV, ±8 kV, ±15 kV air		
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV signal input/output 100 kHz repetition frequency	±2 kV for power supply lines ±1 kV signal input/output 100 kHz repetition frequency		
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 ±0.5 kV, ±1 kV,±2 kV common mode		

EMC GUIDANCE

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 cycle	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 cycle	
Power frequency magnetic field IEC 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz	
Conduced RF IEC61000-4-6	3 V 0,15 MHz – 80 MHz 6 V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz	3 V 0,15 MHz – 80 MHz 6 V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz	
Radiated RF IEC61000-4-3	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	
NOTE U _T is the a	.c. mains voltage prior to application of the te	est level.	

Table 3

Guidance and manufacturer's declaration - electromagnetic Immunity								
Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communica- tions equipment)	Test Frequency (MHz)	Band (MHz)	Service	Modulation	Modulation (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)	
	385	380-390	TETRA 400	Pulse modulation b) 18Hz	1.8	0.3	27	
	450	430-470	GMRS 460, FRS 460	FM c) ± 5kHz deviation 1kHz sine	2	0.3	28	
	710	704-787	LTE Band 13, 17	Pulse modulation b) 217Hz	0.2	0.3	9	
	745							
	780							
	810	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation b) 18Hz	2	0.3	28	
	870							
	930							

EMC GUIDANCE

Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communica tions equipment)	1720 1845	1700- - 1990 -	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4,25; UMTS	Pulse modulation b) 217Hz	2	0.3	28
	1970						
	2450	2400- 2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz	2	0.3	28
	5240	5100- 5800	WLAN 802.11 a/n	Pulse modulation 217 Hz	0.2	0.3	9
	5500						
	5785						

Limited 5 Year Warranty

Zewa provides a 5 year limited warranty on this product to be free from defects in material and workmanship only under normal use. This warranty extends only to the original owner.

For warranty claims, please return the product together with satisfactory proof of purchase such as a sales receipt. Be sure to include your return address, phone number and a brief description of the problem and mail it to:

Zewa Inc. Attn: Service Department 12960 Commerce Lakes Drive Suite 29 Ft. Myers, Florida 33913

Include a check for return shipping and insurance. Contact Zewa (US and Canada only) at 1-888-993-3592 for appropriate shipping and insurance costs. For Zewa service locations in Europe please visit our web site at www.zewa.com or contact our US office.

In lieu of return of the product, Zewa offers a free of charge warranty repair service on all defective subassemblies, provided the product fails to perform due to faulty workmanship or faulty materials. Defects on the product due to normal wear and tear, misuse, abuse, improper handling whether negligent or intentional, failure to follow instructions or alterations and repairs of the product other than by an authorized Zewa Service location will void this warranty.

All other repair services not covered under this warranty will be charged to the customer.

WARRANTY

WARRANTY

Zewa will either repair or replace any parts necessary (at its option) to correct defects in the materials or workmanship. Any replacement parts or product may be new or refurbished.

The above warranty is complete and exclusive. Except as stated above, Zewa makes no express or implied warranties or representations, including, but not limited to the accuracy or completeness or information delivered to you, or warranties of fitness for a particular purpose, intended use, merchantability, non-infringement, or any implied warranties arising out of a course of performance, dealing, or trade usage and we specifically disclaim such warranties. In no event will Zewa be liable for indirect, exemplary, incidental, special or consequential punitive or similar damages, including without limitation, any damages resulting from loss of use, loss of business, loss of revenue, loss of profits, or arising in connection with this warranty or your purchase or attempt to purchase products, or of any other obligations, even if we have been advised of the possibility of such damages. Further, the aggregate liability (whether claims arise in contract, tort, personal injury, product liability or otherwise) of Zewa (and its officers, directors, employees, agents, representatives and affiliates), and your sole and exclusive remedy, arising with respect to or in connection with this warranty, shall not exceed the aggregate of our invoiced purchase price with respect to any products as to which there is a dispute. The foregoing limitation of liability shall apply regardless of the cause of action under which such damages are sought, whether in contract, in tort or otherwise.

This warranty gives you specific legal rights, and you may have other rights, which vary from state to state. For this warranty to be effective the enclosed registration card must be completed and returned to us within 15 days from the date of purchase. This warranty registration is also available online at www.zewa.com. Any failure to return the registration card to Zewa timely will constitute a complete bar to any claim by you with respect to such product. Any failure to make a timely claim with respect to the cuff will also bar your claim. Unauthorized returns will be returned to you at your expense and need not be accepted by Zewa.

For any questions regarding this warranty, please contact us

By Phone Toll Free By E-Mail 1-888-993-3592 warranty@zewa.com

