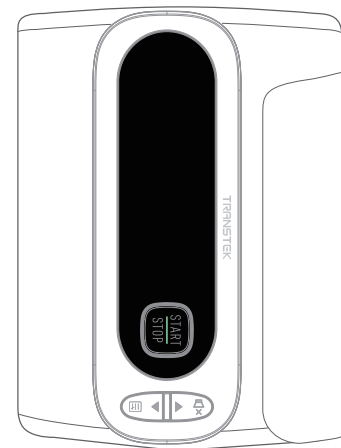


User Manual

Blood Pressure Monitor Model: TMB-2296-BT

Arm Type



- Thank you very much for selecting TRANSTEK Blood Pressure Monitor TMB-2296-BT.
- Please do read the user manual carefully and thoroughly so as to ensure the safe usage of this product, and keep the manual well for further reference in case you have problems.

Guangdong Transtek Medical Electronics Co., Ltd.



Zone A, No.105, Dongli Road, Torch Development
District, 528437 Zhongshan, Guangdong, China

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♥ General Description

Thank you for selecting TRANSTEK blood pressure monitor (TMB-2296-BT). The monitor features blood pressure measurement, pulse rate measurement and the result storage. The warranty period is two years.

Readings taken by the TMB-2296-BT 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:

- Digital LCD display
- Maximum 199 records per each user
- Measuring-during-inflation technology

♥ Indications for Use

This Blood Pressure Monitor is a digital monitor intended for use in measuring blood pressure and heartbeat rate with arm circumference ranging from 22cm to 32cm (about 8¾"-12½"), 22cm to 42cm (about 8¾"-16½").

It is intended for adult indoor use only.

♥ 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.

♥ Receiving and Inspecting your Monitor

Check that the device packaging has not been tampered with and make sure that all contents are present. Before use, ensure that there is no visible damage to the device or accessories and that all packaging material has been removed. If you have any doubts, do not use the device and contact your retailer or the specified Customer Services address.

♥ Safety Information

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

	Recyclable		Type BF applied part
	Direct Current		Serial Number
	Date of manufacture		Manufacturer
	Class II Equipment		For indoor use only
	Refer to instruction manual/booklet To signify that the instruction manual/ booklet must be read. Note: The background color of the symbol is blue.		
	MR Unsafe To identify an item which poses unacceptable risks to the patient, medical staff or other persons within the MR environment.		
	Caution Indicates that caution is necessary when operating the device or control close to where the symbol is placed, or that the current situation needs operator awareness or operator action in order to avoid undesirable consequences.		
	The symbol indicates that the product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.		

Precaution

- * This device is intended for indoor, home use and is not intended for self-use in public areas.
- * This device is portable, but it is not intended for use during patient transport.
- * This device is not suitable for continuous monitoring during medical emergencies or operations.
- * This device is intended for non-invasive measuring and monitoring of arterial 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 neonates or infants. Do not use it on children and adolescents unless otherwise instructed by a medical professional.
- * Consult with your physician before using this monitor if you suffer from the following conditions: common arrhythmias such as premature ventricular beats or atrial fibrillation; peripheral arterial disease; pregnancy; preeclampsia; implantation with electrical devices; undergoing intravascular therapy; arteriovenous shunt or mastectomy. Please note that any of these conditions may affect measurement readings, in addition to patient motion, trembling or shivering.
- * Do not use this device for diagnosis or treatment of any health problem or disease. Contact your physician if you have or suspect any medical problem. Do not change your medications without the advice of your physician or health care professional.
- * If you are taking medication, consult your physician to determine the proper time to measure your blood pressure.
- * This device may be used only for the intended use described in this manual, the manufacturer shall have no liability for any incidental, consequential, or special damages caused by misuse or abuse.
- * 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.
- * The device may require up to 30 minutes to warm up / cool down from the minimum/ maximum storage temperature before it is ready for use.
- * The blood pressure monitor, its adapter, and the cuff are suitable for use within the patient environment.
- * Do not wash the cuff in a washing machine or dishwasher!
- * The device contains sensitive electronic components. To avoid measurement errors, avoid taking blood pressure measurements near a strong electromagnetic field radiated interference signal or electrical fast transient/burst signal.
- * Wireless communication equipment, such as wireless home network devices, mobile phones, cordless telephones and their base stations, walkie-talkies may cause interference that may affect the accuracy of measurements. A minimum distance of 1 foot (30 cm) should be kept from such devices during a measurement.
- * The maximum temperature that the applied part can be achieved is 41.8 °C while the environmental temperature is 40 °C and the contact time with the cuff by patient should be less than 10 minutes.

⚠ Caution

- * Do not attempt to repair the unit yourself if it malfunctions. Only have repairs carried out by authorized service centers.
- * It is recommended that the performance should be checked after repair, maintenance, and every two years of use, by retesting the requirements in limits of the error of the cuff pressure indication and air leakage (testing at least at 50 mmHg and 200 mmHg). Please contact manufacturer or distributor for authorized service personnel.
- * Store your device, cuff and adapter in a clean and dry place, protect it against extreme moisture, heat, lint, dust and direct sunlight. Never place any heavy objects on it.
- * Dispose of accessories, detachable parts, and the device according to the local guidelines.

Warning

- * Do not apply the cuff on an arm that has an intravenous drip or a blood transfusion attached.
- * Taking blood pressure measurements too frequently could disrupt blood circulation and cause injuries.
- * Do not apply cuff to areas on patient where skin is delicate or damaged. Check cuff site frequently for irritation.
- * Do not place the cuff on the arm of a person whose arteries or veins are undergoing medical treatment, i.e. intra-vascular access or intra-vascular therapy or an arteriovenous (A-V) shunt, which could disrupt blood circulation and cause injuries.
- * Do not place the cuff on the arm on the same side of a mastectomy (especially when lymph nodes have been removed), it is recommended to take measurements on the unaffected side.
- * 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 (for example, by observation of the limb concerned) that the operation of the device does not result in prolonged impairment of patient blood circulation.
- * 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 mmHg for more than 3 minutes) might lead to bruising and discolored skin.
- * Do not use this device with high-frequency (HF) surgical equipment at the same time.
- * This device is not used in conjunction with oxygen rich environments, not intended for use with flammable anaesthetics, not intended for use in conjunction with flammable agents.
- * Do not touch output of the batteries/adapter and the user simultaneously.
- * The power cord is considered the disconnect device for isolating this equipment from supply mains. Do not position the equipment so that it is difficult to reach or disconnect.
- * Do not use this device if you are allergic to polyester, nylon, or plastic.
- * Only use accessories approved by manufacturer. Using unapproved accessories might cause damage to the unit and injure users.
- * If you experience discomfort during a measurement, such as pain in the arm or other complaints, press the Power button immediately to release the air from the cuff.
- * Do not use the device while under maintenance, or being serviced.
- * Sensor degradation or looseness may reduce performance of device or cause other problems.

Notice

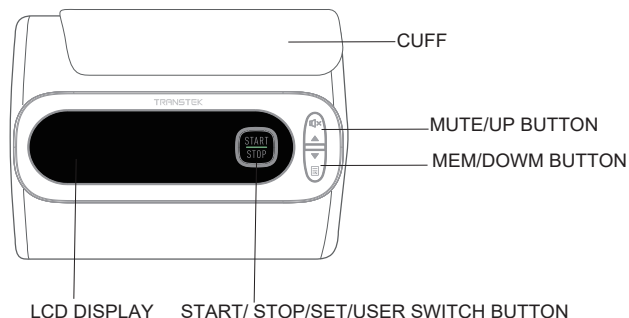
- * You can use this device to take your own measurement, no third-party operator is required.
- * Adapter is specified as a part of ME EQUIPMENT.
- * At the request of authorized service personnel, circuit diagrams, component part lists, descriptions, and calibration procedures will be made available by the manufacturer or distributor.
- * The service life of the cuff may vary by the frequency of washing, skin condition, and storage state.
- * Please report to the manufacturer and the competent authority of the Member State / the FDA in which you are established about any serious incident that has occurred in relation to this device.

♥ LCD display signal



SYMBOL	DESCRIPTION	EXPLANATION
SYS	Systolic blood pressure	High pressure result
DIA	Diastolic blood pressure	Low pressure result
PULSE /min	Pulse display	Pulse in beats per minute
mmHg	mmHg	Measurement unit of blood pressure
AVG	Average value	The average value of the latest three groups blood pressure value
Heartbeat icon	Heartbeat	Heartbeat detection during measurement
Hand shaking icon	Hand shaking	Hand shaking makes results inaccurate
Battery icon	Battery Indicator	Indicate the current battery
Irregular heartbeat icon	Irregular heartbeat	Irregular heartbeat
Data transmitting icon	Data transmitting	Data is transmitting
MEM	Memory Query	Indicate it is in the memory mode and which group of memory it is.
OK icon	Cuff wearing	The cuff is secured.
Bluetooth icon	Bluetooth icon	Indicate the bluetooth is working.
Voice Broadcast icon	Voice Broadcast	The function of Voice Broadcast is off.

♥ Name of Each Part

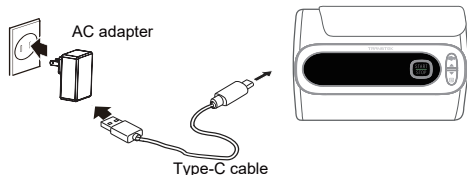


♥ Contents/Product Includes

- Blood Pressure Monitor (TMB-2296-BT)
- Cuff (Type BF applied part)
Upper arm cuff:22-32cm or
Upper arm cuff:22-42cm.
- User manual
- Type-C cable & Adapter (Optional!)

♥ Power Supply and Charge Power

1. The battery of TMB-2296-BT is built-in rechargeable li-polymer battery, the battery current is 1000 mAh.
2. Please use the Type-C cable(Optional!) and AC adapter(Optional!) to charge the battery, just like the following picture:



Charging the power under following circumstances:

- + bAt Lo displays on the LCD
- The LCD display is dim.
- When powering on the monitor, the LCD doesn't light up.

⚠ CAUTION

- The battery of TMB-2296-BT is built-in rechargeable lithium-ion battery, please do not disassemble it by the unauthorized maintenance personnel.
- * If the battery cannot charge the power normally or the blood pressure monitor cannot use normally, please connect with the authorized maintenance personnel. If the battery is fully charged, it can be used for about 100 times.
- * Store and use the blood pressure monitor at the cool, dry and ventilated environment. Avoid to approach to the fire and the heat source, or it will cause the battery explode.
- * Only can use the authorized AC Adaptor (Model: BLJ06L050100U-U) to charge the power. You cannot use the blood pressure monitor during the process of charging.
- * During the process of charging, the LED indicator of the START/STOP button will be lighted. When the charging is finished, please pull the plug in time.
- * When charging, shall not touch charging connector and the patient simultaneously.

⚠ CAUTION

- Do not attempt to replace your blood pressure monitor's battery. It is built-in and not changeable.
- Only charge the battery in accordance with the user instructions supplied with the blood pressure monitor.
- Avoid charging your blood pressure monitor in extremely high or low temperatures.
- Do not use your blood pressure monitor while you are charging it.
- Do not attempt to disassemble the blood pressure monitor or force open the built-in battery.
- Do not clean the blood pressure monitor when it is being charged. Always unplug the charger first before cleaning the blood pressure monitor.
- Do not dispose of your blood pressure monitor in a fire. The battery could explode causing injury or death.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

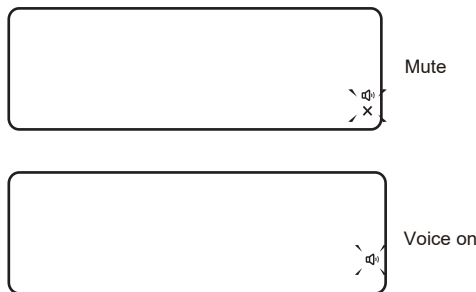
♥ Activate Your Blood Pressure Monitor

When you get the Blood Pressure Monitor, the first thing you must do is to activate it. Please long press the "START/STOP" button for about 5 seconds to activate the device.

♥ Setting Voice

This blood pressure monitor comes equipped with the optional function of voice. This section will guide you to Turn on or Turn off the voice before you use your monitor.

1. When the monitor is off, press the “MUTE” button, it will enter the voice setting. It will speak “Voice on” or “Mute” with the symbol blinks. Press the “MUTE” button again to switch “Mute” or “Voice on”.




2. Press the “START/STOP” button to confirm the voice setting, and then the monitor will turn off automatically.

♥ Pair a smart device with the monitor

You are the intended operator of this blood pressure monitor. You can measure your blood pressure and then save and send measurement data to a smart device (such as smartphone or tablet) with Bluetooth wireless connectivity and application.


1. Turn on the Bluetooth and the app on your smart device.

Make sure both are ON when pair-up is proceeding.

2. When the monitor is off, press and hold the “START/STOP” button to start pair-up, the bluetooth symbol  will flash.

(When the voice is on, it will broadcast “pairing starts, please wait.”)



3. If successful, the bluetooth symbol  will not flash any more and the monitor will display “done”, and then it will automatically shut off after several seconds.

(When the voice is on, it will broadcast “Pairing succeeds.”)

If unsuccessful within 60 seconds, it is judged timeout and the monitor will display “donE”, and then it will automatically shut off after several seconds.

(When the voice is on, it will broadcast “Pairing is failed.”)

Note

1. The date and time will automatically be synchronized after paired with your smart device successfully.
2. You can also pair during the measurement.

RF Frequency Range: 2402 MHz to 2480 MHz

Output Power Range: see test report

Supply Voltage: 3.3 V

Transmitting Distance: 10 meters

List of compatible devices:

For iOS devices:

The operating system must be iOS 13.0 or more.

For Android devices:

The operating system must be Android 5.0 or more.

⚠ CAUTION

- Interference may occur in the vicinity of equipment marked with the following symbol (📶). And TMB-2296-BT may interfering vicinity electrical equipment.
- Keep the monitor at least 20 centimeters away from the human body (especially the head) when the data transmission is proceeding after measurement.
- To enable the data transmission function, this product should be paired to Bluetooth end at 2.4 GHz.

How to mitigate possible interference?

1. The range between the device and BT end should be reasonably close, from 1 meter to 10 meters. Please ensure no obstacles between the device and BT end so as to obtain quality connection and to lower the RF output range.
2. To avoid interference, other electronic devices (particularly those with wireless transmission / Transmitter) should be kept at least 1 meter away from the monitor.

♥ Setting a user ID

There are 2 user ID available. User 1 and User 2, each with 199 memory spaces, are designed for 2 different people to save the measured values separately.

1. When the monitor is off, press the “START/STOP” button to display the current user ID and flash. Press the “START/STOP” button again to switch the user ID between the User 1 and User 2.



User 1



User 2

2. After confirming the selected user ID, the User ID will not flash any more and the monitor will enter the measurement automatically after 2 seconds.

♥ Tie the Cuff

Only use a cuff that has been approved by the manufacturer for this device model. Before use, please confirm if it fits your arm circumference.

1. Remove all accessories (watch, bracelet, etc) from your arm. If your physician has diagnosed you with poor circulation in your arm, use the other one.
2. Roll or push up your sleeve to expose the skin.
3. Apply the cuff to your arm with your palm facing up.
4. Position the edge of the cuff about 2cm~3cm from elbow.
5. Fasten the cuff around your arm, leaving no extra room between the cuff and your skin. If the cuff is too loose, the measurement will not be accurate.
6. 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.
7. 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.



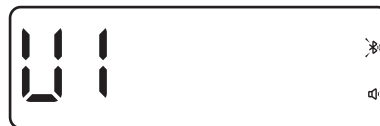
♥ Start the Measurement

You can use your monitor without pairing to a smart device. To pair your monitor with a smart device refer to the foregoing chapters.

1. When the monitor is off, press the “START/STOP” button, the current user ID will flash.

You can press the “START/STOP” button to switch the User 1 or User 2, the monitor will enter the measurement automatically after about 2 seconds.

Remain still and do not talk until the full measurement is complete. (Take User 1 with voice on for example.)



Select user ID



Cuff wrap detection. symbol “0” flash. It will read “starting measurement, please remain still and quiet”




Cuff wrap ok. Inflating and measuring.



Display, save and read the measurement result “your blood pressure is 120 over 80, pulse is 78”.


2. Press the button to turn off the monitor, or it will shut off within about 1 minute.

3. If your monitor is already paired with your smart device and both Bluetooth and app are ON, when the measurement completed, the measurement result will start transmitting.




If data transmission successful, the symbol “

If **unsuccessful** within 60 seconds, it is judged timeout and the monitor will shut off.

Note

- Any time if you want to stop the measurement, you can press the “START/ STOP” button manually.
- If there are untransmitted data, the symbol  displays at the beginning of the measurement.

4. About the irregular heartbeat and excessive body motion during the measurement.

- During a measurement, If an irregular heartbeat is detected, the symbol  will display in the measurement result. See page 23 for more information.
- During a measurement, when the excessive body motion, the symbol  will flash about 5 seconds and detect again. If it is no longer detected, the symbol will disappear; If still detected, the symbol  will final display in the measurement result.

Note

The measured blood pressure reading may not be accurate if this symbol is displayed.



♥ Recall the Records

1. When the monitor is off, press the “MEM” button, the display will show a blinking User ID and memory records representing the user, you can press the “START/STOP” button to switch the User ID between User 1 and User 2.



2. After confirming the selected user ID, the monitor will enter the memory mode automatically after 2 seconds.

Then the LCD will display the average value of last 3 readings. When the records are less than three groups, it will display the latest record. (Example is shown below)

3. Press the USER or MEM button to display the next record.



Note:

1. When the voice is on, it will read the memory value, date and time for you at the same time.

(Take the memory record 01 for example, it will speak “Memory 1, your blood pressure is 120 over 80, pulse is 78, time 8:00, Date 1 January, Year 2023.”)

2. If there are untransmitted datas, the symbol  displays at the

♥ Delete the Records

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

A: To delete a single measurement:

1. Enter the memory recall mode as described in section [Recall the Records]. Press the “UP” or “DOWN” button to get the measurement you would like to erase.
2. Press and hold “DOWN” button for about 5 seconds, and the display will show a blinking “dEL y”.
3. Use the “UP” or “DOWN” button to switch between “dEL y” and “dEL no”, Press “START/STOP” to confirm the selection.

If “dEL y” is selected, the unit will delete the record, after then it will return to last memory record and all the records are pushed forward one digit (e.g., 03 becomes 02, and so on)

If “dEL no” is selected, it will stop the deletion.



“dEL y” blinks



“dEL no” blinks

B: To delete all measurements:

1. Enter the memory recall mode as described in section [Recall the Records].
2. Press and hold "UP" and "DOWN" button for 5 seconds, and the display will show a blinking "dEL AL".
3. Use the "UP" or "DOWN" button to switch between "dEL AL" and "dEL no", Press "START/STOP" to confirm the selection.

If "dEL AL" is selected, the unit will display User ID and "--". Several seconds later, all datas will display "--".
If "dEL no" is selected, it will stop the deletion.



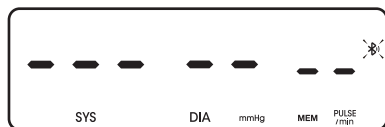
"dEL AL" blinks



"dEL no" blinks



Deletion is done



No record

♥ Tips for Measurement

Measurements may be inaccurate if taken in the following circumstances.



Within 1 hour
after dinner or drinking



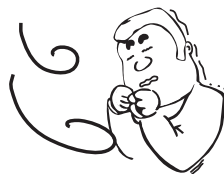
Immediate measurement
after tea, coffee, smoking



Within 20 minutes
after taking a bath



When talking or moving your fingers



In a very cold environment



When you want to discharge urine

♥ Maintenance

In order to get the best performance, please follow the instructions below.

1. Cleaning Process:

- Step 1: Make sure to switch off the device prior to cleaning.
 Step 2: Use a soft cloth wetted with soapy water to clean the cuff first, and then use a soft cloth wetted with clear water to remove residual soap until there is no visible residual contaminants. Attention shall be paid to avoid liquid invasion into the cuff.
 Step 3: Use a dry soft cloth to wipe the cuff, in order to remove residual moisture.
 Step 4: Dry the cuff at a well-ventilated place after cleaning.

2. Disinfection Process:

- Step 1: Make sure to switch off the device prior to disinfection.
 Step 2: Use a soft cloth wetted with 70% isopropanol to disinfect the cuff for about 3 minutes. Attention shall be paid to avoid liquid invasion into the cuff.
 Step 3: Use a clean dry cloth or towel to wipe off the disinfectant until there is no visible residue.
 Step 4: Dry the cuff at a well-ventilated place after disinfection.

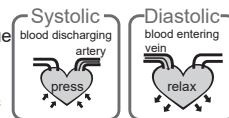
• Suggestion:

Frequency of Cleaning and Disinfection:

For single patient multiple use, it's recommended to clean the device surface once a month or whenever it's necessary.
 For multiple patient multiple use, it's recommended to clean the device every time before and after usage. Maintenance procedures shall be taken as per instruction.

♥ 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.



♥ What is the standard blood pressure classification?

The blood pressure classification published by European Society of Hypertension (ESH) is as follows:

This chart reflects blood pressure categories defined by European Society of Hypertension				
Blood Pressure Category	SYS mmHg		DIA mmHg	LED Indicator of START/STOP Button
Normal	<135	and	<85	Green
High Blood Pressure	≥135	and/or	≥85	Orange

⚠ CAUTION

Only a physician can tell your normal BP range. Please contact a physician if your measuring result falls out of 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 unit is measuring the systolic and diastolic blood pressure. During each measurement, the monitor records all the pulse intervals and calculate the average; 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 intervals, the difference between each interval and the average is more than the average value of $\pm 15\%$, the irregular heartbeat symbol appears on the display when the measurement results are appeared.

⚠ CAUTION

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.

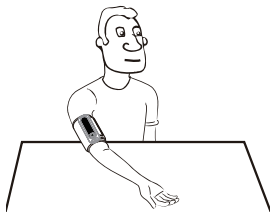


What you need to pay attention to when you measure your blood pressure at home:

- 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 for 4-5 minutes until you calm down.

♥ 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.



If any abnormality arises during use, please check the following points:

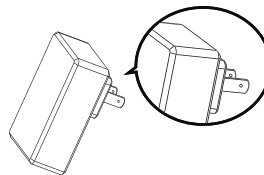
PROBLEM	SYMPTOM	CHECK THIS	REMEDY
No power	Display can not light up.	Batteries are depleted.	Charge the power.
		Adapter is inserted incorrectly.	Insert the AC adapter correctly.
Low Battery	bAt Lo& shows	The battery is too low.	Charge the power.
Error message	E 1 shows	The cuff is not wrapped or wrapped incorrectly.	Refasten the cuff, then measure again.
	E 2 or 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	A calibration error occurred (X can be some digital symbol, such as 1, 2, etc., if this similar situation appear, all belong to calibration error.)	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 and then measure again. If the problem persists, contact your physician.

NOTE: If the product still does not work, contact Customer Service. Under no circumstance should you disassemble or attempt to repair the unit by yourself.

Power supply	3.6V 1000mAh Built-in rechargeable li-polymer battery(Optional!), 5V \equiv 1A AC Adaptor(Optional!)
Display mode	Digital LCD V.A.72mm \times 22mm
Measurement mode	Oscillographic testing mode
Measurement range	Rated cuff pressure: 0mmHg~299mmHg Measurement pressure: SYS: 60mmHg~230mmHg DIA: 40mmHg~130mmHg Pulse value: (40-199)beat/minute
Accuracy	Pressure: 5 $^{\circ}$ C~40 $^{\circ}$ C with \pm 3mmHg Pulse value: \pm 5%
Normal working condition	A temperature range of: +5 $^{\circ}$ C to +40 $^{\circ}$ 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
Storage & transportation condition	Temperature: -20 $^{\circ}$ C to +60 $^{\circ}$ C A relative humidity range of \leq 93%, non-condensing, at a water vapour pressure up to 50 hPa An atmospheric pressure range of 500 hPa to 1060 hPa
Measurement perimeter of the upper arm	About 22cm~32cm or 22cm~42cm
Weight	Approx.206g
External dimensions	Approx.123 mm \times 44 mm \times 22 mm
Attachment	user manual, type-c cable, adapter
Mode of operation	Continuous operation
Degree of protection	Type BF applied part
Protection against ingress of water	IP22 It means the device could be protected against solid foreign objects of 12.5mm Φ and greater, and against vertically falling water drops when enclosure tilted up to 15 $^{\circ}$
Device Classification	Battery Powered Mode: Internally Powered ME Equipment AC Adaptor Powered Mode: Class II ME Equipment
Software Version	A01
Expected Lifetime	Device(with the cuff): 3 years or 10000 times (may vary based on usage conditions) Battery: About 100 times after fully charged
Types of use/reuse	Multiple patient multiple use

♥ Authorized Component

Please use the authorized adapter. (Optional!)



Adapter

Type: BLJ06L050100U-U

Input: 100-240V, 50-60Hz, 0.2A max

Output: 5V \equiv 1000 mA

♥ Contact Information

For more information about our products, please visit
www.transtekcorp.com.

Manufactured by: Guangdong Transtek Medical Electronics Co., Ltd.

Company: Guangdong Transtek Medical Electronics Co., Ltd.

Address: Zone A, No.105, Dongli Road, Torch Development District,
528437 Zhongshan, Guangdong, China

♥ EMC Guidance

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

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 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 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 expected service life.
2. Guidance and manufacturer's declaration-electromagnetic emissions and Immunity.

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, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV signal input/output 100 kHz repetition frequency	±2 kV for power supply lines Not applicable 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
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% U _T ; 0,5 cycle. At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°. 0% U _T ; 1 cycle and 70% U _T ; 25/30 cycles; Single phase: at 0°. 0% U _T ; 250 / 300 cycle	0% U _T ; 0,5 cycle. At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°. 0% U _T ; 1 cycle and 70% U _T ; 25/30 cycles; Single phase: at 0°. 0% U _T ; 250 / 300 cycle
Power frequency magnetic field IEC 61000-4-8	30 A/m 50 Hz / 60 Hz	30 A/m 50 Hz / 60 Hz
Conducted 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 test level.		

Table 3

Guidance and manufacturer's declaration - electromagnetic Immunity								
Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment)	Test Frequency (MHz)	Band (MHz)	Service	Modulation	Maximum Power (W)	Distance (m)	IEC 60601-1-2 Test Level (V/m)	Compliance level (V/m)
	385	380-390	TETRA 400	Pulse modulation 18 Hz	1.8	0.3	27	27
	450	430-470	GMRS 460, FRS 460	FM \pm 5k Hz deviation 1 kHz sine	2	0.3	28	28
	710	704-787	LTE Band 13, 17	Pulse modulation 217 Hz	0.2	0.3	9	9
	745							
	780							
	810	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz	2	0.3	28	28
	870							
	930							
	1720	1700-1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation 217 Hz	2	0.3	28	28
	1845							
	1970							
	2450	2400-2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz	2	0.3	28	28
	5240	5100-5800	WLAN 802.11 a/n	Pulse modulation 217 Hz	0.2	0.3	9	9
	5500							
	5785							

♥ FCC Statement

FCC ID: OU9TMB2296BT

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.

FCC Regulatory Compliance

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Compliance

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.