

Part no.	311-3124200-006
Product name	機器說明書/FORA/英(FCG)
Spec	L297*W420mm/4折/銅版紙100P/雙黑
Designer	JF
Color	■ K:100

TD-3124 BLOOD PRESSURE MONITORING SYSTEM



Owner's Manual

Version 1.0
2015-06
311-3124200-006

Dear System Owner:

Thank you for purchasing the TD-3124 Blood Pressure Monitoring System. This manual provides important information to help you operate this system properly. Before using this product, please read the following contents thoroughly and carefully.

With the compact size and easy operation of this TD-3124 Blood Pressure Monitoring System, you can easily monitor your blood pressure by yourself at any time or place. In addition, this system can help you and your healthcare professionals to monitor and adjust your treatment plans, and keep your blood pressure under control.

If you have other questions regarding this product, please contact the place of purchase.

IMPORTANT SAFETY PRECAUTIONS

READ BEFORE USE

1. Use this device **ONLY** for the intended use described in this manual.
2. Do **NOT** use accessories which are not specified by the manufacturer.
3. Do **NOT** use the device if it is not working properly or damaged.
4. Do **NOT** use under any circumstances on newborns or infants.
5. This device does **NOT** serve as a cure for any symptoms or diseases. The data measured are for reference only. Always consult your doctor to have the results interpreted.
6. Keep the equipment and its flexible cord away from hot surfaces.
7. Do **NOT** apply the cuff to areas other than the place directed.
8. Use of this instrument in a dry environment, especially if synthetic materials are present (synthetic clothing, carpets etc.) may cause damaging static discharges that may cause erroneous results.
9. Do not use this instrument in close proximity to sources of strong electromagnetic radiation, as these may interfere with the accurate operation.

KEEP THESE INSTRUCTIONS IN A SAFE PLACE

BEFORE YOU BEGIN

Intended Use

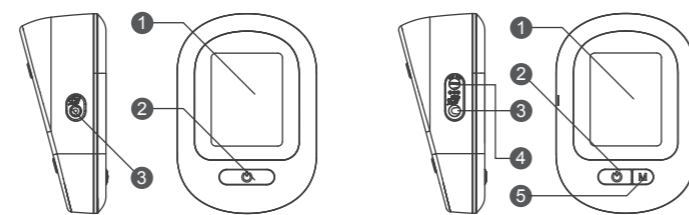
The TD-3124 system is a system designed to measure blood pressure non-invasively. It is intended for use at home and in clinical settings. The device is not to be used for the diagnosis or screening of hypertension or for testing on newborns.

Test Principle

Blood pressure is measured non-invasively at the arm based on oscillometric method.

This device is **NOT** able to take measurements in the presence of common arrhythmia, such as atrial or ventricular premature beats or atrial fibrillation. It may produce reading error.

Meter Overview

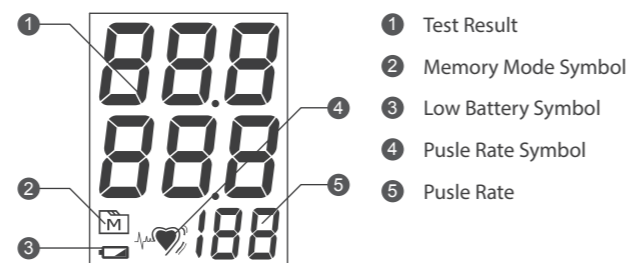


TD-3124A

TD-3124B

- | | |
|---|--------------------------------------|
| 1 Display Screen | 5 M Button
Enter the meter memory |
| 2 ON/OFF Button
To start a single NIBP measurement | 6 Pressure Cuff |
| 3 Air jack | 7 Air Tube |
| 4 DC Adapter Port
Connect to a power supply | 8 Air Plug
Connect to air jack |

Display Screen



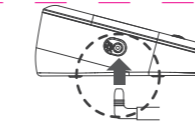
- | | |
|----------------------|---------------------|
| 1 Test Result | 4 Pulse Rate Symbol |
| 2 Memory Mode Symbol | 5 Pulse Rate |
| 3 Low Battery Symbol | |

TESTING YOUR BLOOD PRESSURE

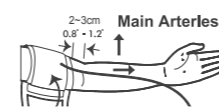
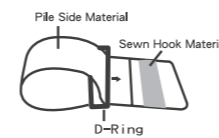
Before Measurement

- Avoid caffeine, tea, alcohol and tobacco for at least 30 minutes before measurement.
- Wait 30 minutes after exercising or bathing before measurement.
- Sit or lie down for at least 10 minutes before measurement.
- Do not measure when feeling anxious or tense.
- Take a 5-10 minute break between measurements. This break can be longer if necessary, depending on your physical condition.
- Keep the records for your doctor as reference.
- Blood pressure naturally varies between each arm. Always measure your blood pressure on the same arm.

Fitting the Cuff Properly



1. Connect the air plug of the tubing to the air jack of the meter.
2. Assemble the cuff as shown on the right. The smooth surface should be inside of the cuff loop and the metal D-ring should not touch your skin.
3. Stretch your left (right) arm in front of you with your palm facing up. Slide and place the cuff onto your arm to let the air tube and artery mark region (in red) toward the lower arm.



The range index of cuff should fall within this range

Wrap and tighten the cuff above your elbow. The red line on the edge of the cuff should be approximately 0.8" to 1.2" (2 cm to 3 cm) above your elbow. Align the tube over the main arteries on the inside.

4. Leave a little free space between the arm and the cuff; you should be able to fit two fingers between them. Clothing must not restrict the arm. Remove all clothing covering or constricting the measurement arm.
5. Press the hook material firmly against the pile material. The top and bottom edges of the cuff should be tightened evenly around your upper arm.

Proper Measurement Position



1. Sit down for at least 10 minutes before measuring.
2. Place your elbow on a flat surface. Relax your hand with the palm facing up.
3. Make sure the cuff is about the same height as the location of your heart. Press **ON/OFF**. Remain still and do not talk or move during the measurement.

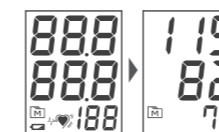
WARNING:

If the cuff is relatively lower (higher) than the heart, the obtained blood pressure value could be higher (lower) than the actual value. A 15 cm difference in height may result in an error around 10 mmHg.

4. Measurement is in progress.
After the meter is turned on, the cuff will begin to inflate automatically.

TAKING MEASUREMENTS

Always apply the pressure cuff before turning on the meter.



1. Press **ON/OFF**. All the LCD symbols and the last blood pressure result will appear. Then the cuff will begin to inflate automatically.



2. The heart symbol "♥" will flash when pulse is detected during the inflation.



3. After the measurement, the meter displays the systolic pressure, diastolic pressure and pulse rate.

WARNING:

- If you press **ON/OFF** during measurement, the monitor will be turned off.
- If the pulse rate symbol is shown as "♥" instead of "♥", this indicates that the meter has detected an irregular heart beat.

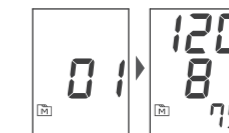
MONITOR MEMORY (only for TD-3124B)

Your meter stores the 100 most recent blood pressure test results in the meter memory. To recall the memory, start with the meter off.

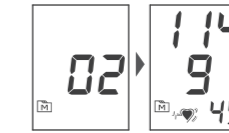
Reviewing Test Results



1. Press and release **M**. **M** will appear on the display. Press **M** again, and the first reading you see is the last test result.



2. Press **M** to recall the next test results stored in the meter each time you press.



3. Exit the memory. Keep pressing **M** and the meter will turn off.



NOTE:

- To delete ALL the results, press and firmly hold **M** for 4 seconds until "dEL" displays. Release **M**, "CLr ALL" and "M" are displayed on the meter, which indicates that all results have been deleted.
- Any time you wish to exit the memory, press **ON/OFF** or leave it without any action for 3 minutes. The meter will switch off automatically.
- If using the meter for the first time, you will only see the "M" symbol on the display when you recall the test results. It indicates that there is no test result in the memory.

WARRANTY CERTIFICATE

YEAR WARRANTY

Owner's portion

Name of product: _____

Name of owner: _____

Address: _____

Tel No: (Mobile) _____ (H) _____ (O) _____

Email: _____ Age: _____ Gender: M F

Date of Purchase: / /
day month year

Dealer's Stamp:

Serial No.: _____

*NOTE: Please produce this card together with the purchase receipt for warranty service.

WARRANTY REGISTRATION CARD

Name of product: _____

Name of owner: _____

Address: _____

Tel No: (Mobile) _____ (H) _____ (O) _____

Email: _____ Age: _____ Gender: M F

Date of Purchase: / /
day month year

Dealer's Stamp:

Serial No.: _____

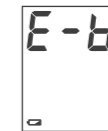
*IMPORTANT: To qualify for the warranty, please fill in this card and mail to us within 14 days from the date of purchase.

MAINTENANCE

Battery

Your meter comes with four (4) 1.5V AA size alkaline batteries.

Low Battery Signal

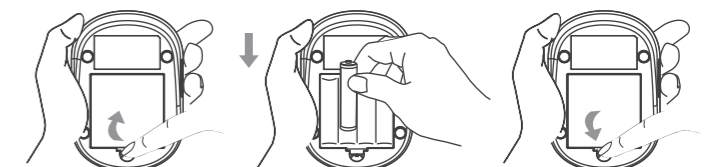


The E-b symbol appears with E-b:

The power is not enough to do a test. You must change the batteries immediately.

Replacing the Battery

To replace the batteries, make sure the meter is turned off.



1. Press the edge of the battery cover and lift it up to remove.
2. Remove the old batteries and replace with four 1.5V AA size alkaline batteries.
3. Close the battery cover. If the batteries are inserted correctly, you will hear a "beep" afterwards.

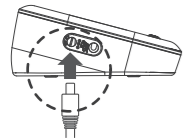
NOTE:

- Replacing the batteries does not affect the test results stored in memory.
- As with all small batteries, these batteries should be kept away from small children. If swallowed, promptly seek medical assistance.

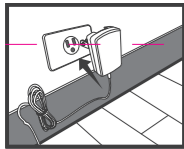
- Batteries might leak chemicals if unused for a long time. Remove the batteries if you are not going to use the device for an extended period (i.e., 3 months or more).
- Properly dispose of the batteries according to your local environmental regulations.

USING AC ADAPTER (only for TD-3124B)

Connect AC Adapter to the Meter

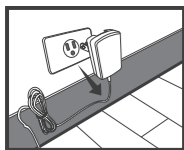


- Connect AC adapter plug to DC adapter jack of the meter.

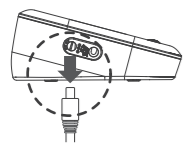


- Plug AC adapter power plug into an electrical outlet. Press **ON/OFF** to start the measurement.

Remove AC Adapter from the Meter



- When the meter is off, remove AC adapter power plug from the electrical outlet.



- Disconnect AC adapter plug from DC adapter jack of the monitor.

CARING FOR YOUR METER

To avoid the meter attracting dirt, dust or other contaminants, wash and dry your hands thoroughly before use.

Cleaning

- To clean the meter exterior, wipe it with a cloth moistened with tap water or a mild cleaning agent, then dry the device with a soft dry cloth. Do **NOT** flush with water.
- Do **NOT** use organic solvents to clean the meter.
- Do **NOT** wash the pressure cuff.
- Do **NOT** iron the pressure cuff.

Meter Storage

- Storage condition: -20°C to 70°C (-4°F to 158°F), between 10% to 95% relative humidity.
- Always store or transport the meter in its original storage case.
- Avoid dropping or heavy impact.
- Avoid direct sunlight and high humidity.

DETAILED INFORMATION

Reference Values

Clinical studies show that adult diabetes is often accompanied by elevated blood pressure. People with diabetes can reduce their heart risk by managing their blood pressure along with diabetes treatment^{*4}.

Monitoring your routine blood pressure trend helps you to know your body condition. Human blood pressure naturally increases after reaching middle age. This symptom is a result of continuous ageing of the blood vessels. Further causes include obesity, lack of exercise and cholesterol (LDL) adhering to the blood vessels. Rising blood pressure accelerates hardening of the arteries, and the body becomes more susceptible to apoplexy and coronary infarction.

The recommended blood pressure range is as below:

Classification	Systolic Pressure (mmHg)	Diastolic Pressure (mmHg)
Hypotension ^{*2}	Less than 90	Less than 60
Normal ^{*3}	Less than 120	Less than 80
Pre-hypertension ^{*3}	120 – 139	80 – 89
Stage 1 Hypertension ^{*3}	140 – 159	90 – 99
Stage 2 Hypertension ^{*3}	160 or more	100 or more

^{*2}: National Heart, Lung, and Blood Institute, Diseases and Conditions

^{*3}: The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure. NIH Publication. 2003. No. 03-5233

^{*4}: American Diabetes Association: The Diabetes-Heart Disease Link Surveying Attitudes,

SYSTEM TROUBLESHOOTING

If you follow the recommended action but the problem persists, or error messages other than the ones below appear, please call your local customer service. Do not attempt to repair by yourself and never try to disassemble the monitor under any circumstances.

Error Messages

MESSAGE	CAUSE	WHAT TO DO
E-1	Inflation or pressure error.	Please contact local customer service for help.
E-4	Blood pressure measurement error.	Refit cuff tightly and correctly. Relax and repeat the measurement. If error still remains, contact local customer service for help.
E-b	Batteries are dead.	Replace the batteries.
E-A	Problems with the meter.	Review the instructions and repeat the test. If the meter still does not work, please contact the local customer service for help.
E-E		

Troubleshooting

- If no display appears after pressing :

POSSIBLE CAUSE	WHAT TO DO
Batteries exhausted.	Replace the batteries.
Batteries incorrectly installed or absent.	Check that the batteries are correctly installed.

- If the heart rate is higher/lower than user's average:

POSSIBLE CAUSE	WHAT TO DO
Movement during measurement.	Repeat measurement.
Measurement taken just after exercise.	Rest at least 30 minutes before repeating measurement.

- If the result is higher/lower than user's average measurement:

POSSIBLE CAUSE	WHAT TO DO
May not be in correct position while measuring.	Adjust to the correct position to measure.
Blood pressure naturally varies from time to time.	Keep in mind for next measurement.

- If the cuff inflates again while measuring:

POSSIBLE CAUSE	WHAT TO DO
Cuff is not fastened.	Fasten the cuff again.
If user's blood pressure is higher than the pressure the device has inflated, the device will automatically increase the pressure and start to inflate again. Stay relaxed and wait for the measurement.	

SYMBOL INFORMATION

Symbol	Referent
	Consult instructions for use
	Manufacturer
	Serial number
	Caution, consult accompanying documents
	Type BF Equipment
	Collection for electrical and electronic equipment

SPECIFICATIONS

System performance

Power source:	Four 1.5V AA alkaline batteries
Size of monitor w/o cuff:	130.5 mm (L) x 90 mm (W) x 55 mm (H), 210 g without batteries.
Cuff Size:	24-43 cm (9.4-16.9 inches) with air tube 100 cm
Memory:	Maximum 100 memory records (only for TD-3124B)
Power saving:	Automatic power off if system idle for 3 minutes
System operating conditions:	5°C to 40°C (41°F to 104°F), between 15% - 93% RH
Meter storage conditions:	-25°C to 70°C (-13°F to 158°F), between 10% - 95% RH
Power Supply Input:	four (4) 1.5V AA size alkaline batteries (for TD-3124A/B) DC +6V / 1A (max) via Power Plug (only for TD-3124B)

Blood pressure measurement performance

Pressure range:	0 - 300 mmHg
Measurement unit:	mmHg
Systolic Measurement Range:	60 mmHg -255 mmHg
Diastolic Measurement Range:	30 mmHg -195 mmHg
Pulse Rate Measurement Range:	40 -199 beats / minute
Maximum inflation pressure:	280 mmHg
Accuracy of Pressure:	±3 mmHg or ±2% of reading
Accuracy of Pulse rate:	±4% of reading
Heart rate range:	40 - 199 beat per minute

This device has been tested to meet the electrical and safety requirements of: IEC/EN 60601-1, IEC/EN 60601-1-2.

Reference to Standards:

- EN 1060-1 /-3, NIBP-requirements
- IEC60601-1 General requirement for safety
- IEC60601-1-2 Requirements for EMC
- EN1060-4, NIBP clinical investigation
- AAMI / ANSI / IEC 80601-2-30, ANSI/AAMI/ISO 81060-2, NIBP requirements

Distributed by
ForaCare Global Corp.
 1F, No. 127, Wugong 2nd Rd., Wugu District,
 New Taipei City 24888, Taiwan
 Tel: +886-2-66253345 Fax: +886-2-66259878
www.foracare.com

Manufacturer
TaiDoc Technology Corporation
 B1-7F., No. 127, Wugong 2nd Rd.,
 Wugu Dist., New Taipei City 248, Taiwan(R.O.C.)
www.taidoc.com



TERMS & CONDITIONS OF WARRANTY

- We warrant this product to be free of defects in workmanship and materials within the said warranty period on the warranty certificate.
- During the warranty period, if this product is found to be defective, you may bring it, together with the purchase receipt and Warranty Certificate, on a carry-in basis to our office during normal business hours for warranty service. We will then repair or replace defective parts or exchanging the whole product as we may choose, at no charge to the original owner. After such repair, replacement or exchange, the product will be warranted for up to the remainder of the warranty period.
- This warranty is valid only if the Warranty Certificate and Warranty Registration Card are duly completed with date of purchase, serial number and dealer's stamp, and if the Warranty Registration Card is sent to our office not later than 14 days from the date of purchase.
- This warranty is void if this product has been repaired or serviced by unauthorized person. This warranty does not cover defects caused by misuse, abuse, accident, tampering, lack of reasonable care, fire or any other acts beyond human control.
- Except as stated in the above paragraphs, we disclaim all other warranties, implied or expressed, including the warranties of merchantability or fitness for a particular purpose with respect to the use of this product. We shall not be liable for any direct, consequential or incidental damages arising out of the use or inability to use this product.

PLEASE
AFFIX
STAMP

DEALER'S INFORMATION