XM-01

Electronic Sphygmomanometer
Operating Manual

Introduction

- Thank you for buying a XM-01Automatic Electronic Blood Pressure Monitor
- This device is an innovative networking product and must be used with a smart phone or a tablet PC display terminal. Over the network you can check all the previous measured data.
- This product needs to be used with an app, which supports Android 4.0 and IOS 6.0 and higher versions. The app can be downloaded from: www.tcxy.com.cn.
- Before using this device, please read the manual carefully and pay attention to all the instructions so as to use the product correctly.
- For detailed information about the blood pressure readings obtained with this device, please consult a professional doctor.

Purposes of the Product

The XM-01Automatic Electronic Blood Pressure Monitor is used to measure adults' systolic pressure, diastolic pressure and pulse rate with the oscillometric method, and the data it produces are only an aid to diagnosis.

Description of Symbols

\triangle	Caution
*	Internal Power
Λ	Supply
\bigcirc	Prohibited
0	Compulsory

△Instructions

- 1. To facilitate comparison blood pressure should be measured at the same time each day.
- 2. This device is suitable for measuring adults' systolic pressure, diastolic pressure and pulse rate with the oscillometric method, and the data it produces are only an aid to diagnosis.
- 3. Newborns, pregnant women and sufferers from aura epilepsy should not use this sphygmomanometer.
- 4. Before each measurement remain at rest for 15 minutes. If the device is used to measure the same person repeatedly, preserve an interval of 5 minutes between each measurement.
- 5. Do not eat, smoke, drink or undertake any vigorous activity for 30 minutes before measurement.
- 6. When measuring it with your body relaxed and at rest. Keep your hand as level as possible, with

- your palm up and wristband and heart at the same height. Remain relaxed and breathe gently.
- 7. Take care that the wristband is attached correctly. Bare your wrist and do not wrap the wristband round too tight.
- 8. Patients with serious blood circulation disorders or blood diseases should use the device under the direction of a doctor.
- 9. In the event of common arrhythmia (e.g. atrial premature beats, ventricular premature beats, atrial fibrillation etc.) the measurements may not be correct or blood pressure may not be measurable. In such cases do not use the device to measure your blood pressure.
- 10. Measurements you make yourself are only for personal reference, and should not replace medical examination. You can consult your doctor about the measured data, but you should not use them as the basis for any medical decision.
- 11. Do not dismantle, repair or change the sphygmomanometer's main body or wristband, otherwise the results may be affected.
- 12. This device is only suitable for the purposes specified in the operating manual, and the manufacturer is not responsible for any damage caused by violating regulations or misusing the device.

Caution

- 1. When the air pocket is pressurized excessively, it may cause damage to your arm. If this situation occurs, loosen the wristband immediately.
- 2. Overcharging for a long time may result in damage to the hardware and batteries. Power off promptly when charging is complete.



Federal Communication Commission Interference 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.
- 2. Changes or modifications made to this equipment not expressly approved by Sky Innovation Technology (Shanghai) Limited may void the FCC authorization to operate this equipment.
- Radio frequency radiation exposure Information: 3.
 - The radiated output power of the device is far below the FCC radio frequency exposure limits. Nevertheless, the device shall be used in such a manner that the potential for human contact during normal operation is minimized.

Product Description

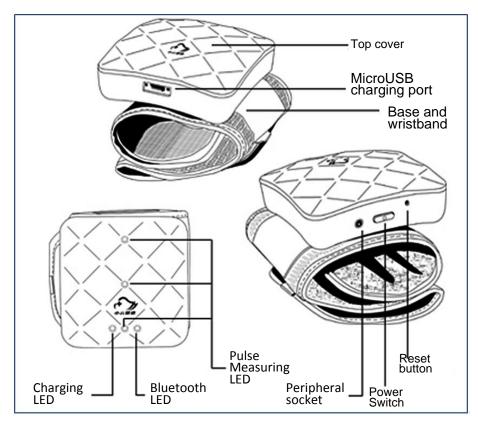


Figure 1

1.Sleep

After the device has been started or connected with Bluetooth, if there is no other operation for 3 minutes it will automatically go into "sleep" mode. In "sleep" mode no bluetooth connection is possible, no functions work and all indicator lamps go out. You must press the "power" button to wake up the device, and it does not work normally until the "bluetooth indicator lamp" turns red.

2. Forced Termination and Wakeup

When the device is measuring, press the "power" button to force an end to the measurement. When the device enters "sleep" mode, pressing the "power" button wakes it up.

3.Bluetooth

If the bluetooth indicator lamp is red, this means that bluetooth is not connected; green means that it is connected.

4. Pulse indicator lamp

In the process of measuring blood pressure, if the heartbeat is detected, the three "indicator lamp pulse measurement indicator lamps" on the device's obverse side will go on in turn from bottom to top and then go out successively. The representation of one heartbeat is then complete. The indicator lamps only light up when the heartbeat is detected in the process of taking a pulse reading. Otherwise they will be off all the time.

5.Charging

This device has its own Micro-USB charging port, and you can use phone chargers or data lines with the same interface to charge it. If the device shows "Low Battery", please charge it immediately. During charging the "charging indicator lamp" will go on; once the charge is complete, the indicator lamp will go out.

Preparations for Measurement

Installing app software on the display terminal

The XM-01 electronic sphygmomanometer supports Android and IOS app software. Before using the sphygmomanometer, please ensure the following items are in order.

- 1) The Health cloud application software has been installed on the display terminal of the mobile phone or tablet PC. If it is not installed, please log in to the official website www.tcxy.com.cn to download and install it.
- The mobile phone or tablet PC display terminal can connect to the Internet (WIFI and 3G are OK).
- 3) Bluetooth on the display terminal has been opened.
- 4) The software is suitable for Android version 4.0 and higher and IOS version 6.0 and higher. If the system software version is earlier than this, first update the system software.
- 5) The sphygmomanometer device is switched on and Bluetooth has been opened.

Please wear the wristband correctly as shown in the following figure

1. Keeping your palm and the sphygmomanometer's obverse side facing upwards, wrap the wristband about 5 to 10 mm from your left wrist joint (about the width of one little finger). Keep your wrist and heart as close to the same height as possible (see Figure 2).

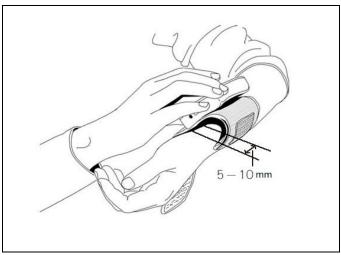


Figure 2

2. Roll up your sleeve. The wristband should be tight on your skin and not around your clothes. Grasp the end of the wristband, and while pulling it wrap it around your wrist keeping it tight. Do not leave any space between the wristband and your wrist (see Figure 3).

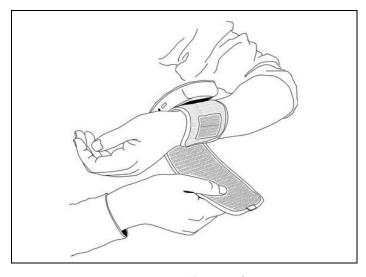


Figure 3

3. The trailing end of the wristband should be fixed by folding it back properly (see Figure 4).

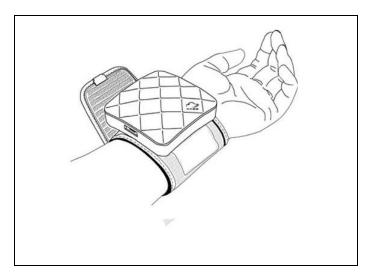


Figure 4

Measurement of Blood Pressure

Open the software

Please click the "Health cloud "installed on your mobile phone or tablet PC app interface.

2. User registration

When users first use the "Xiaoyun Health" software, they need to enter their mobile phone number, receive a verification code by text message, and then enter the verification code and click "OK" to register (see Figure 5). After the registration is completed, the software will automatically go to its main screen (as shown in Figure 6).



Figure 5 Figure 6

3. Editing the user information Click the user icon at the top left corner of the main screen (Figure 6) to enter the user information screen. There you can modify the user's icon, name, age, gender, height and weight, and save them by clicking "Save" (see Figure 7).

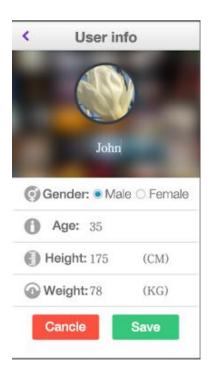


Figure 7

4. Blood Pressure Measurement

Click the "Blood pressure measurement" button on the homepage to enter the "start measuring" screen(seeFigure 8). The software will automatically search for Xiaoyun smart sphygmomanometers in the vicinity of the user, and will connect to one after the search. Please be patient because the first connection generally takes 5 to 10 seconds.



Figure 8

After the "Xiaoyun Health" software has found a Xiaoyun smart sphygmomanometer, it will connect automatically via Bluetooth. Successful connection is as shown in Figure 9. Click the "Start" button to enter the measurement zone.



Figure 9

Click the "Start" button as shown in Figure 9 to start blood pressure measurement. After the measurement, data transmission will start automatically, and when the transmission is completed the measuring process ends. Screens will appear in turn as follows: Figure 10, Figure 11, Figure 12, Figure 13, and Figure 14.

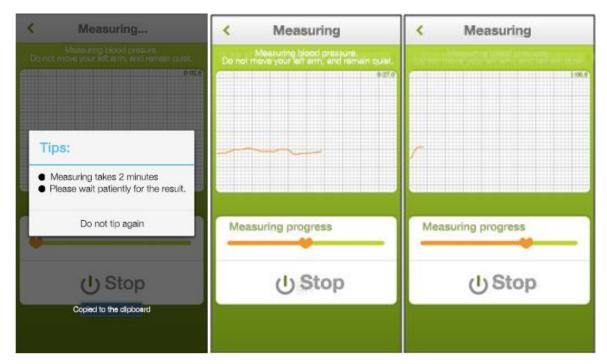


Figure 10 Figure 11 Figure 12

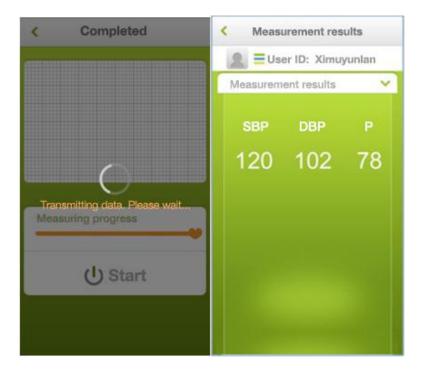


Figure 13

Figure 14

5. Historical Data Check

Click "Historical Data" on the main screen as shown in Figure 6 to enter the historical records screen. There users can check their historical measurement records. The data are listed in order of time (see Figure 15). Swipe the screen to the left to check earlier historical data.



Figure 15

Click the "Health Trends" button in the top right corner of Figure 15 health index curves (see Figure 16).

Click the "Other Indexes" button in the top right corner (see Figure 16) to check out trend charts for other measured data (see Figure 17).



Figure 16 Figure 17

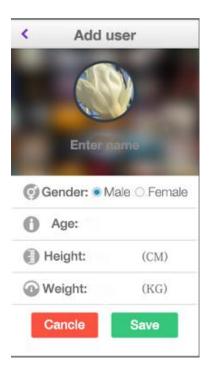
6 . Switch user

Click the "Switch User" button in the top right corner of the main screen as shown in Figure 6 to enter the switch users screen. Click another user in the user list to complete the switch. By pressing a user item you want to delete, swiping to the left and then clicking the "Delete" button you can delete this user information. Click the "Edit" button to enter the editing screen for this user information (see Figure 18 and Figure 19).



Figure 18 Figure 19

Click the "Add User" button at the top right corner to add a new user account (see Figure 20).



△Tips for Product Storage and Maintenance

Tips for Product Storage and Maintenance

This sphygmomanometer contains precise electronic components, so it should be used correctly and carefully to ensure its accuracy and preserve its working life.

- Avoid external shocks, damp, pollution, corrosion, extreme temperature fluctuations or prolonged exposure to sunlight.
- Avoid dropping the device.
- Do not use the sphygmomanometer in the vicinity of magnetic fields, and keep it away from radio equipment or mobile phones.
- > Do not use water, alcohol, benzene or other diluting agents to wipe the product's casing.
- Only the original wristband should be used, and the wristband should not be changed by the user.
- > On no account immerse the device in liquid.

Maintenance Procedures

- If the product has not been used for a long time, when you start it again check whether there is enough power. If there is not charge the device soon.
- If smudges appear on the casing, wipe with a clean cloth.
- ➤ Store in the following conditions: temperature -20oC- +50oC, R.H.15%-90%
- Roll up the wristband naturally when you are not using the product. Take care not to roll it too tightly to avoid damaging it during a long period of disuse.

Troubleshooting

Common Faults

The following faults are common ones that may occur during the measuring process. When they happen try the suggested solutions

Error message (Err)	Reason	Remedy
Measuring error (body position changed)	Too much interference (body position changed, too much speaking etc. while measuring)	Stay in the right position for measuring and do not speak or move.
Measuring error (wrong air pressure)	Wrong air pressure (air inflation does not reach 30mmHg in 20 seconds)	Check whether the device is leaking air or the wristband is not properly fastened and adjust accordingly.
Measuring error (inflation time limit exceeded)	Inflation time limit exceeded (pressure increased for 60 seconds or above 250mmHg)	If the wristband is not fastened properly readjust it.
Measuring error (low battery in the device)	Low voltage warning	Charge the device.

Other Faults

If the product does not work normally, first check whether there is enough power, whether Bluetooth is connected and whether the wristband is properly fastened. If none of these apply see "Reset".

Reset: if the device behaves oddly and no solution can be found, Insert a fine needle into the small hole on the right of the power button (not the wide hole on its left) to reset the device.

Product Specifications

Product Name: XM-01 Automatic Electronic Blood Pressure Monitor

Common Name: Automatic Electronic Blood Pressure Monitor

Model: XM-01

Means of Measurement: Oscillographic method

Range of Measurement: Blood pressure: 0mmHg-260mmHg

Pulse: 40-200 beats/min

Precision: ±3mmHg

Inflation: Fully automatic inflation

Pressure relief: No

Deflation: Fully automatic rapid deflation

Pressure measurement: Semiconductor pressure sensor

Power supply: Internal rechargeable battery

Operating environment: Temperature +10°C- +40°C, R.H 40%-85%

Storage environment: Temperature -20°C - +50°C; R.H.15%-90%

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