**File No.:XXXXXX**

# Body Composition Analyzer
# User Manual


Model:CS20C

**Shenzhen Yolanda Technology Co.,Ltd.**

# Foreword

With the continuous development of clinical nutrition, how to accurately and comprehensively evaluate the nutritional status of individuals, better implement clinical nutrition support treatment, and promote early recovery, has been paid more and more attention by the general population. In recent years, the rapid development of human composition determination methods can provide important clinical nutritional information for assessing the nutritional status of the human body. On the one hand, it can be used to prevent epidemic diseases such as obesity, and on the other hand, it can guide the administration of reasonable diet and exercise. Bioelectrical impedance technology (BIA) is a detection technology that extracts the electrical impedance information of the organism to reflect the biomedical information related to the physiology and pathology of the organism. The human body composition analysis is an important application branch of bioelectrical impedance technology, it is through the detection of human body impedance information to get the parameters of each component of the human body. Human body composition analyzer is simple, accurate, non-invasive, safe, low cost and a wide range of people and other advantages, whether it is academic and commercial, have been vigorously developed.

Thank you for purchasing the Intelligent Body Composition Analyzer.



Rev.1.0

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# Catalogue

# 一、Product Overview

The Body Composition Analyzer mainly through the measurement of body weight, bioimpedance and height, age, gender set to calculate the body's BMI, body fat rate, body water and other indicators; In addition, the data can be directly uploaded to APP via Bluetooth or to server via WiFi connection, and then the server will push the data to APP to generate in-depth test report. The body composition analyzer is suitable for individuals, family users and other long-term monitoring of body obesity, to provide data reference for weight loss and muscle gain.

To ensure proper use, please be sure to read this user manual carefully, paying close attention to the safety precautions.

In order to use this product correctly, please read the user manual before use.

In order to properly use this product, please carefully read the full text of this manual before using, in particular the“safety precautions”section.

Please keep this instruction manual in a convenient place for reference.

# 二、Description of warning and error sign or signal

## 1.Warning instructions and precautions

The warning signs and graphic symbols in the manual are intended to enable you to use the product safely and correctly and to prevent harm to you and others. Warning marks and graphic symbols are described as follows:

**Warning/precautions symbols**

| | |
|---|---|
|  Waring | Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. |
|  cautions | Means a possibility of personal injury or property damage in case of improper use. |
| Notes | Indicates the need for attention, if not attention may lead to incorrect use of the product or property device damage. |

## 2.Symbol description

| | | | |
|---|---|---|---|
|  | Manufacturer information: The manufacturer name and address |  | Manufacture date |
|  | Serial Number |  | Batch code |
|  | Pile Limit 4 layers |  | Authorized representative in the European Community. |
|  | Refer to instruction manual. |  | Medical device |
|  | Applied part of type BF |  | Fragile,handle with care |

 Keep Dry

 The product should be vertically up

CE 1639 Complies with the European Medical Device Regulation(2017/745.Notified Body is 1639.

 Disposal in accordance with Directive 2002/96/EC(WEEE)

# 三、Safety Precautions

## Warnings

1、Use object

·The target users of this product are the general population aged 18-60.

2、Potential safety hazards and use restrictions

·Concurrent use of this device and implantable medical electronic instruments,e.g.Cardiac Pacemaker.

·Concurrent use of this device and wearable medical electronic instruments,e.g.electrocardiograph.

·Concurrent use of this device and other medical electronic instruments for life support,e.g.mechanical heart.

·Slippery floor such as tile floor.

·Jumping onto the platform immediately after bath or with wet hands.

·Interference may occur in the vicinity of equipment marked with the following symbol  .And the Analyzer may interfere vicinity electrical equipment.

·No modification of this equipment is allowed. There is a risk of electrocution or injury. Nor can precise analysis be guaranteed.

Any modification without permission is prohibited as such modification may result in unacceptable risks.

The maintenance of the equipment must be conducted by special personnel. Disassembly and maintenance of the machine by oneself is prohibited. (Circuit diagram, list of components, drawing notes, calibration details and other information have been provided to maintenance personnel.)

## Cautions

Avoid storage in the following locations:

·Where there is water

·Where the device may be exposed to extreme temperatures, humidity, moisture, direct sunlight, dust, or salt air

·Where there is risk of shock or drop

·Where you store chemicals or full of corrosive gases

·Where in reach of the infants or children

·To enable the data transmission function, this product should be paired to a Bluetooth end at 2.4 GHz.

·Do not carry out maintenance or maintenance during use

# 四、Product introduction

## 1.Intended use

1.1 The Body Composition Analyzer measures weight, body impedance and uses bioelectrical impedance analysis(BIA)technology to estimate body fat percentage(body fat mass), total body water content, BMI in generally healthy adults. The visceral fat rating and protein are only displayed on the APP.

1.2 It is intended for use in the home only.

## 2.Efficacy

2.1 This product is simple to use, and requires no specialized facilities or expertise to take measurements.

2.2 Measurements can be taken quickly and easily, causing minimal inconvenience to the patient during. measurements.

## 3.Contraindication

3.1 This device is contraindicated for any female subject who may be suspected of, or is pregnant.

Besides provided inaccurate readings, the affects of this device on the fetus are unknown.

3.2 This device is contraindicated for any person who is connected to a wearable or implantable electronic device or instrument such as a pacemaker or defibrillator.

## 4.Specifications

| | |
|---|---|
| Product name | Body Composition Analyzer |
| Model | CS20C |
| Measurement Principle | bioelectrical impedance analysis(BIA) |
| Weight measurement range | 0.2-180kg |
| Pressure starting weight | >5kg |
| Accuracy | 0-50kg，0.2kg；50-100kg，0.3kg；100-150kg，0.4kg；150-180kg，0.5kg |
| Resolution ratio | 0~100kg：0.05kg；>100kg：0.1kg |
| Memory Capacity | 20 |
| Number of users | 8 |
| Power source | 4*1.5V AAA battery |
| Size | 310*310*25mm |
| Net weight | 1.8kg（including battery） |
| EMC | I、Class B |
| Degree of protection against electric shock | Type BF applied part |
| Working Environment | Temperature :5℃～40℃ 41℉～104℉<br>Humidity ： 30-90%RH<br>Atmospheric Pressure ： 70kPa-106kPa |
| Transportation and Storage Environment | Temperature ： -40℃-55℃ -40℉～131℉<br>Humidity ： 0-93%RH (No condensation)<br>Atmospheric Pressure ： 70kPa-106kPa |
| Applicable period | 3 years |
| Manufacture date/Lot number | See fuselage and gift box for details |

## 5.Wireless technology

The specification of wireless transmission

For Bluetooth：

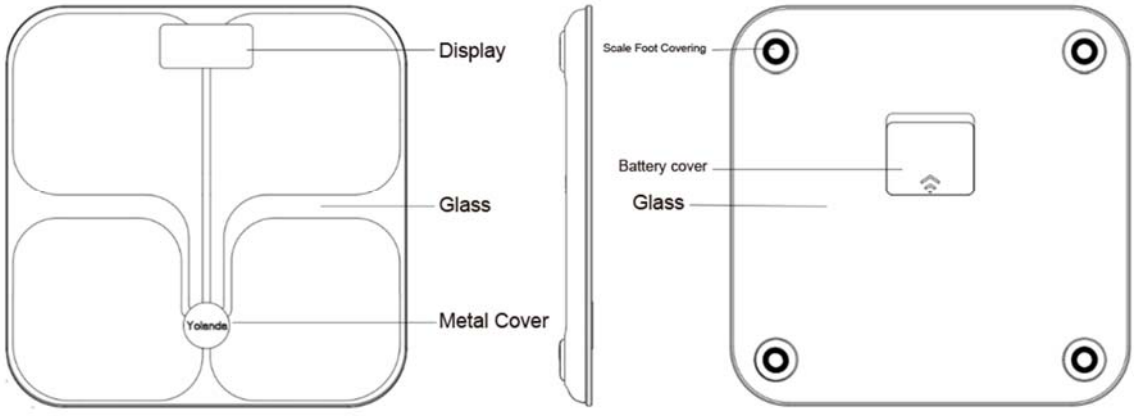
| | |
|---|---|
| Bluetooth | 5.0 |
| Valid Transmission | Up to 10 meters |
| Receiver | Bluetooth 4.0 enabled smart phones running android 4 and above system version and iPhone 4s and above |
| Signal transmission | 2.4G Bluetooth |
| Frequency | 2.402-2.480 GHz |
| Bluetooth Modulation Type | GFSK |
| | |

For Wi-Fi：

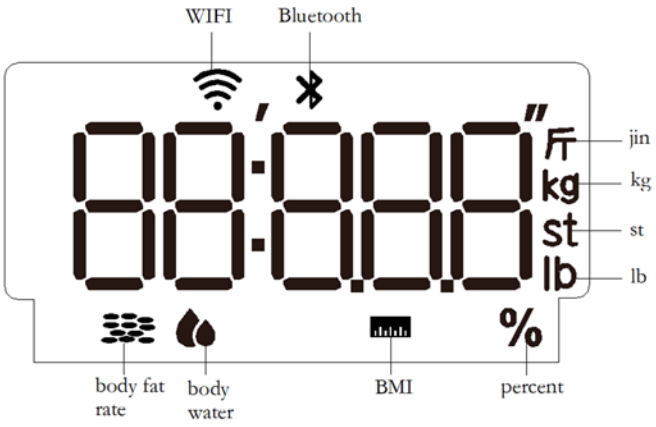
| | |
|---|---|
| Transmission type | Wi-Fi |
| Valid Transmission(Distance between Wi-Fi APP and Body Composition Analyzer) | Up to 50 meters |
| Frequency Range | 2412~2462MHz |
| Wi-Fi APP running environment | Enable smart devices running android 4 and above system version and iPhone 4s and above |
| WIFI Modulation Type | BPSK/QPSK/16QAM/64QAM/DBPSK/DQPSK/CCK |
| | |

# 五、Structure and component

## 1. External component



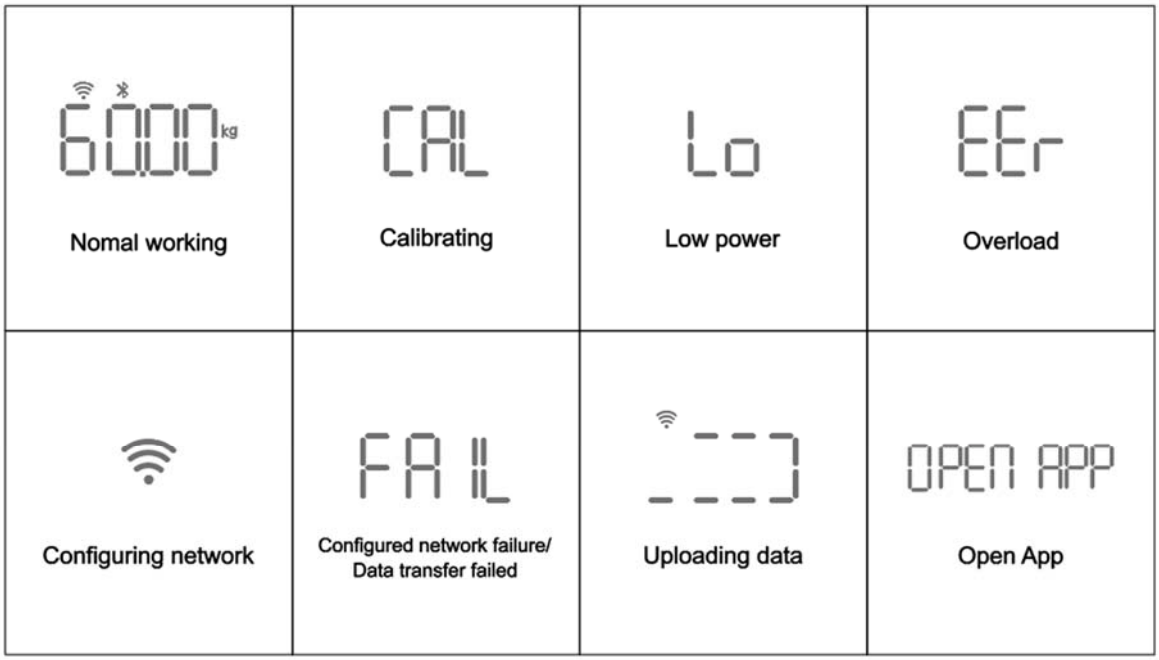

## 2. Display

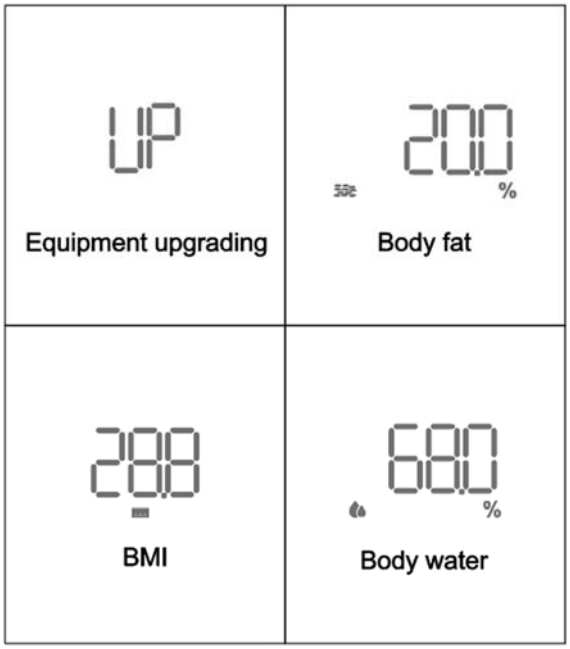



## 3. Product performance

a. The products are mainly composed of shell, glass, display screen, battery, weight test module, body fat test module, Bluetooth module, WiFi module and mobile terminal application software。

b. Product basic information display description

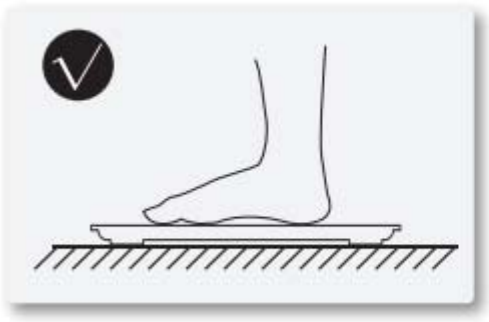


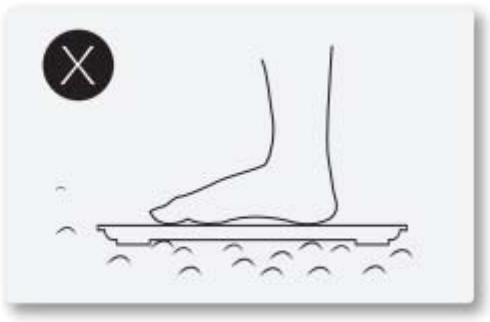




## 4、Basic information

This product can measure body weight, fat percentage, BMI and other indexes. After the measurement is completed, the data will be transmitted to the mobile terminal application software through Bluetooth 4.0 or WiFi.

1、Measurement method





Place in a hard and flat place for use, do not use on uneven soft materials (such as: soft floor, carpet or spring pad, etc.), otherwise it can not be measured correctly.

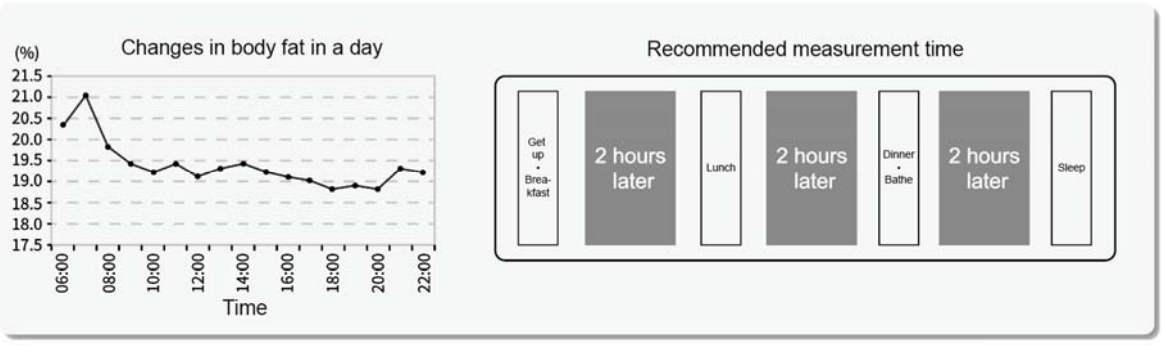
- Do not place in direct sunlight, near heating equipment, air outlet of air conditioning
- Do not use in places with drastic temperature changes
- Do not place it in a humid or steamy place

Body fat percentage is obtained by the BIA bioreactance measurement, which is closely related to the following parameters: body resistance coefficient/height/weight/age/sex. So change any one of these parameters and the fat percentage changes.

Also please do not measure under the following conditions:

- After strenuous exercise
- After a bath or sauna
- After overeating
- After drinking a lot of water or alcohol
- Cold and fever

The body weight changes daily with the change of eating and drinking water, there are 0.5~2KG of the change value. Since body fat percentage = fat weight/body weight, fat percentage also fluctuates, as shown in the figure below. In the morning, before eating and drinking, body fat percentage peaks throughout the day, and in the afternoon and evening, body fat percentage peaks throughout the day as weight gain and water content increase due to eating and drinking.




3、Measuring position

In order to get accurate measurements, pay attention to the measurement posture

- Proper measurement with two feet on each side of the conductive film
- Measure naked as far as possible; When measuring clothes, it also includes the weight of the clothes
- Barefoot and clean the soles of the feet before measuring; Wearing socks or having dust on the soles of your feet will affect the accuracy of the measurements
- Do not bend your knees or sit while measuring. Do not shake during measurement. Keep your body relaxed.

# 六、APP Operation Instructions

## 1. Bluetooth link

a. Turn on the Bluetooth function and click add body fat scale, as shown in Figure 1

b. Wait for the system to scan the surrounding body composition analyzer products, and gently step on the body composition analyzer until the screen lights up as shown in Figure 2

c. Click Bind Now as shown in Figure 3

d. The interface indicates that binding is underway, and wait for binding to complete. Do not close the body fat scale as shown in Figure 4

e. WiFi shall be configured after successful binding, as shown in Figure 5


Figure 1

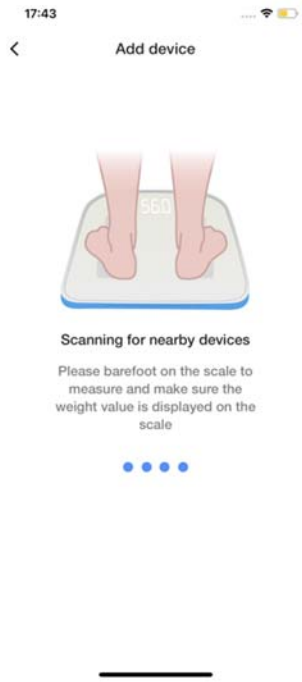



Figure 2

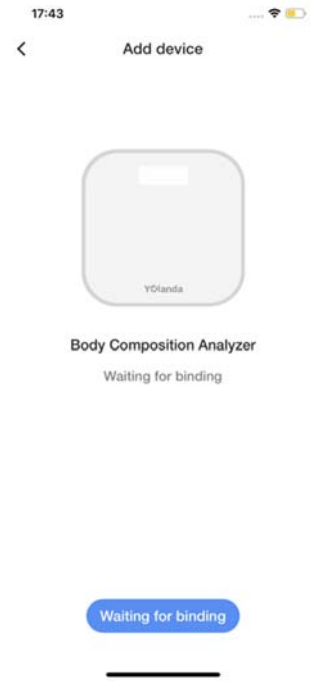



Figure 3


Figure 4

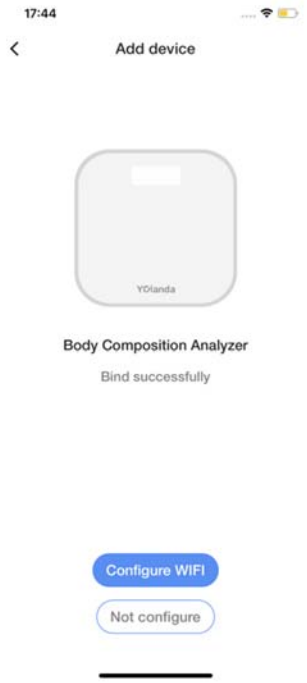



Figure 5

## 2. WIFI Configuration

A. Please select 2.4G WIFI for WIFI configuration.

B. In the process of network distribution, the body composition analyzer should be turned on and complete the measurement.

Distribution network operation is introduced as follows:

Select 2.4GHzWiFi for connection, as shown in Figure 1

Enter the WiFi password, as shown in Figure 2

Wait for the success of distribution network, as shown in Figure 3

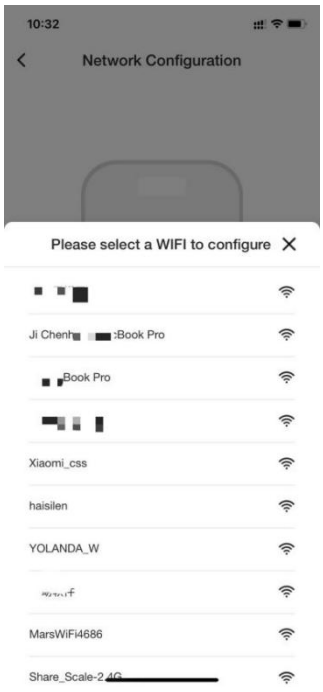



Figure 1

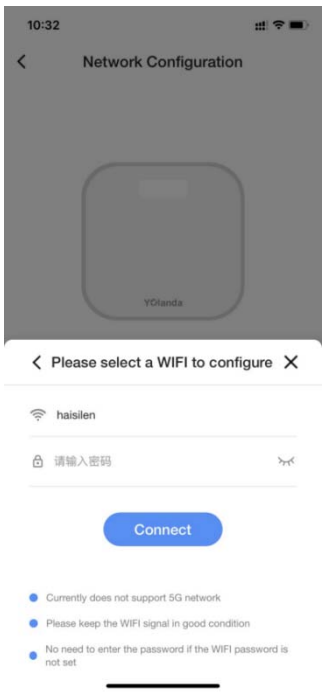



Figure 2


Figure 3

## 3. Data synchronization

A. Click "History record" on the detail interface, as shown in Figure 1

B. Wait for the device to connect. Start the body composition analyzer and measure body fat weight. When the measurement is finished, the body weight value is displayed on the screen, and the APP will automatically search for the body composition analyzer device, as shown in Figure 2

C. Connect successfully, wait for synchronization completion, please keep the body composition analyzer on, as shown in Figure 3

D. Data synchronization is completed, as shown in Figure 4

E. Check the body weight and body fat measurement results, as shown in Figure 5

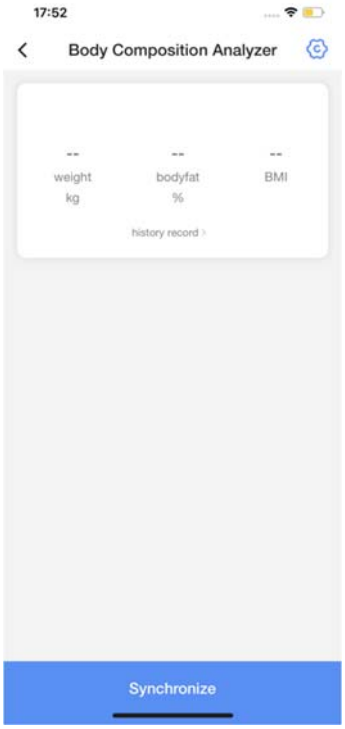



Figure 1

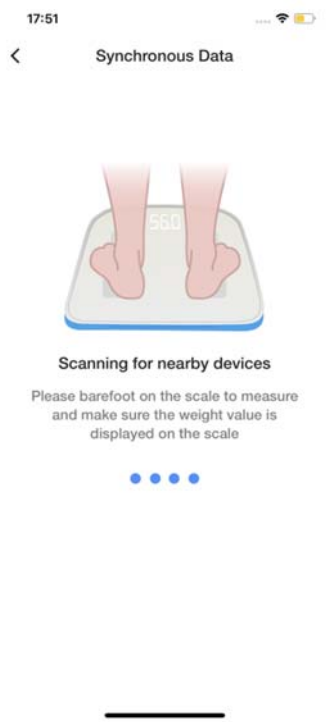



Figure 2

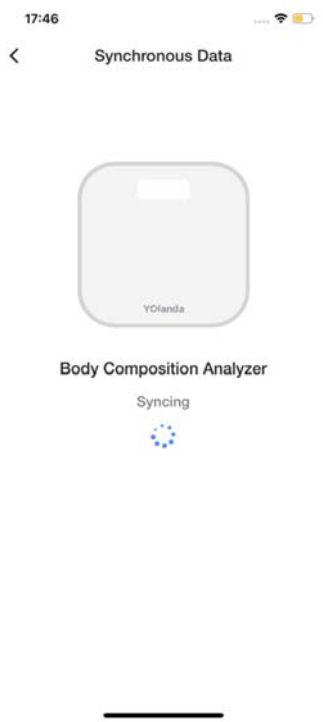



Figure 3

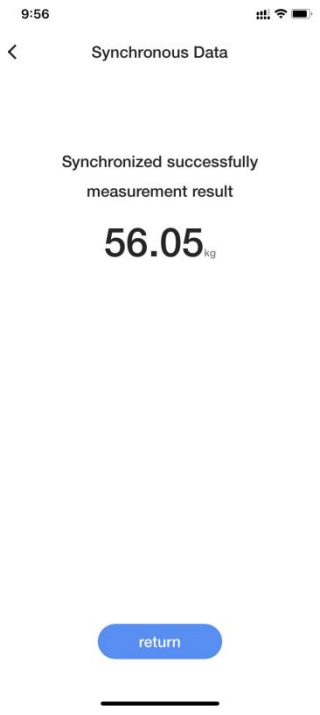



Figure 4

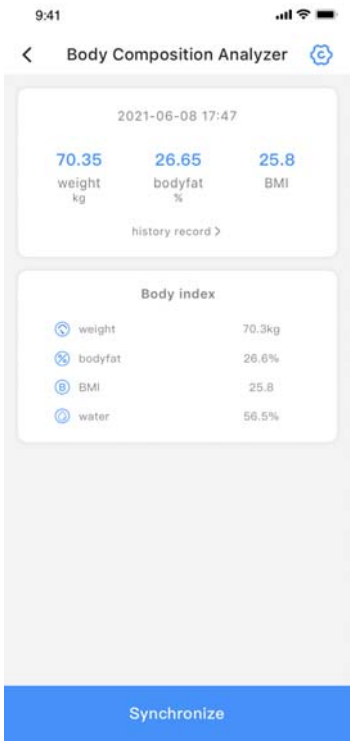



Figure 5

## 4. Historical data

A. Click the history to view the user's history measurement data, as shown in Figure 1

B. List of historical data, as shown in Figure 2

C. Click [Select] to delete the historical data, as shown in Figure 3

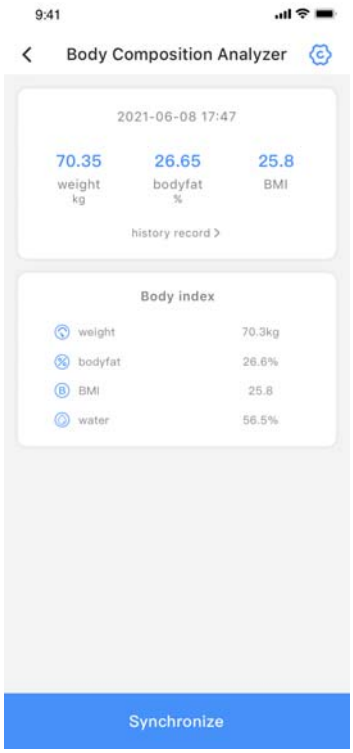



Figure 1

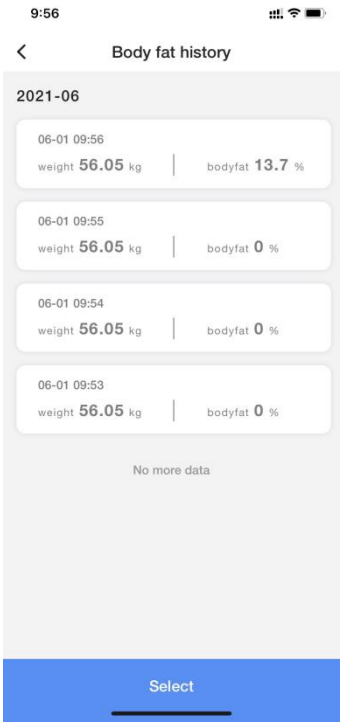



Figure 2

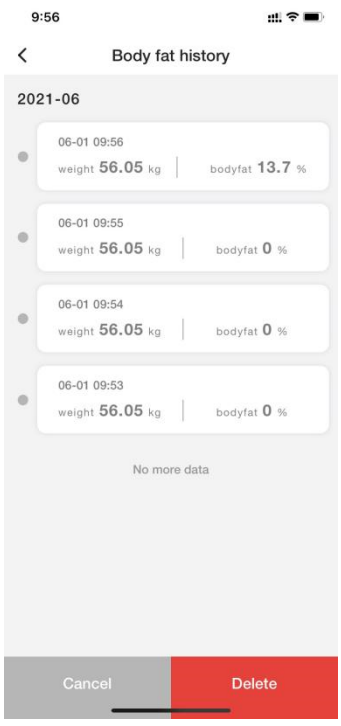



Figure 3

# 七、Packing list

| Quantity | Parts |
|---|---|
| 1 pcs | Body Composition Analyzer |
| 4 pcs | 4 AAA batteries |
| 1 pcs | User Manual |
| 1 pcs | Gift box |
| 1 pcs | Package support |

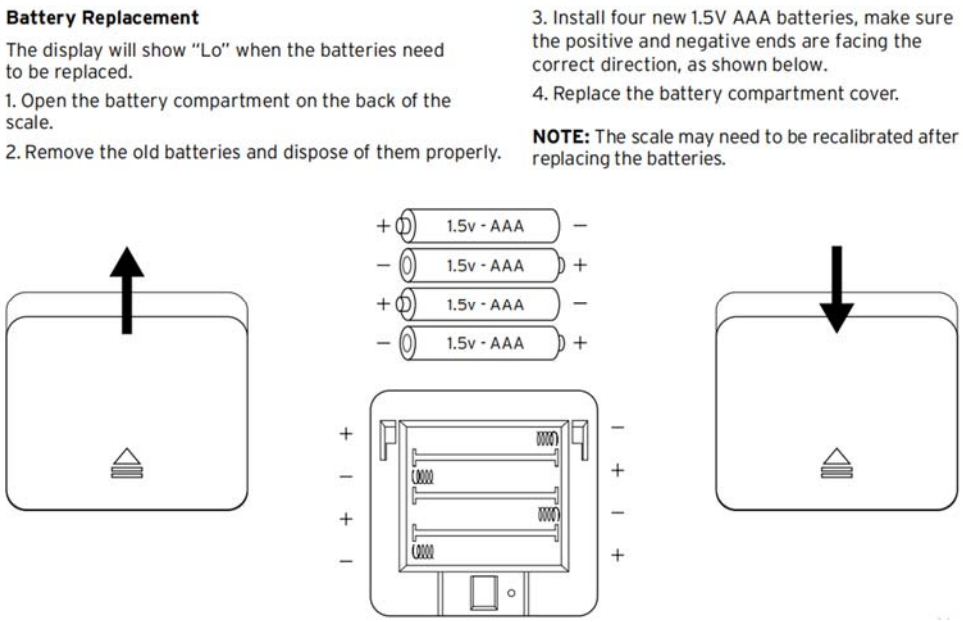
# 八、Battery Installation/Replacement

Too low a battery will show LO and the device will go to sleep. The three batteries can be used for three times a day after installation for four months. The four batteries can be used for six months after installation for three times a day. If the battery is connected in reverse, the device will not be able to start up but there is no damage.

The battery specification：

- When the product displays "LO", it means that the battery power has been used up and the battery needs to be replaced.
- Do not use alkaline batteries and manganese batteries at the same time.
- Remove the battery when not in use for a long time.

Battery replacement process




# 九、Cleaning/disinfection and Care

1. Cleaning and disinfecting

Please pay attention to cleaning and disinfecting after each use because the product is reused. If the product is dirty, gently wipe the surface of the product with a wet cloth to remove the dirt. Do not use strong cleaning agent, do

not immerse the product in water, the product is not waterproof.

Disinfection of the product: wipe the surface of the product gently with a cotton swab dipped in a little medical alcohol (70%), wipe once or twice and use it after the alcohol has completely evaporated.

2. Cleaning and disinfecting environment

Temperature :5℃～40℃ 41℉～104℉

Humidity ： 30-90%RH

Atmospheric Pressure ： 70kPa-106kPa

3. Storage

Before storing, dry it and keep it out of reach of children.

Remove the battery if you do not use the product for a long time.

Keep the product in a safe and dry place. Avoid sun exposure, extreme heat, cold, or humidity.

Please do not shock the product, such as dropping it to the floor.

Please use the product in strict accordance with the instructions and instructions in this operation guide.

Note: It takes 4 hours for the equipment to return to normal operation after being transferred from the lowest storage ambient temperature to an ambient temperature of 20 ° C

It takes 4 hours for the equipment to return to normal operation after being transferred from the highest ambient storage temperature to an ambient temperature of 20 ° C

# 十、Trouble-shooting

： Returns "FAIL" if the user is trying to network the product:

1. Please check the case of your Wi-Fi password and the way you write special characters.
2. Check your router

2.1 Users are requested to keep mobile phones, body fat scales and routers as close as possible and avoid using them in a wall environment

2.2 The signal of portable Wi-Fi is generally unstable, so it is not recommended to use it

3. If "FAIL" is returned when data is uploaded through WIFI after the product measurement is completed: please check whether the network used by the device is in an abnormal or unstable state

： Weight overload

： When the product displays "LO", it means the battery power has been used up. Please replace the battery in time.

： The device is undergoing an OTA upgrade. Please do not force it to shut down

# 十一、Standard List

Shenzhen Yolanda Technology Co.,Ltd. declares that the Body Composition Analyzer complies with following applicable standards:IEC 60601-1,IEC 60601-1-2,IEC 60601-1-11,ISO 10993-1,ISO 10993-5,ISO 10993-10 and

IEC 62304,ISO1497.

# 十二、Disposal

Dispose of the device in accordance with the regulations applicable at the place of operation.

Dispose of at public collection point in the EU countries–2002/96/EC WEEE Directive.

If you have any queries,please refer to the local authorities responsible for waste disposal.

**NOTES:**

Handing of battery and wastes method,please act according to the native law to proceed to handle.

To protect the environment,dispose of empty battery at your retail store or at appropriate collection sites according to national or local regulations.

# 十三、EMC

## RF STATEMENT/FCC statement

## RF STATEMENT

Medical Electrical Equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the following section.

Interference may occur in the vicinity of equipment marked with the following symbol.

Portable and mobile RF communication equipment(e.g. cell phones)can affect Medical Electrical Equipment. The use of accessories and cables other than those specified may result in increased emissions or decreased immunity.

The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.

The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.

Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. Any other accessories, transducers and cables may result in increased emissions or decreased immunity and EMC performance.

The device should not be used adjacent to or stacked with other equipment and if adjacent or stacked use is necessary, it should be observed in order to verify normal operation in the configuration in which it will be used.

Medical Electrical Equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the following. Portable and mobile RF communication equipment(e.g.cell phones)can affect Medical Electrical Equipment. The use of accessories and cables other than those specified may result in increased emissions or decreased immunity of the unit.

## 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.

Attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This product 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 product 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 product 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.

## EMC DECLATION

The analyzer needs special precautions regarding EMC and needs to be installed and put into service according to the below EMC information.

Statement:

The equipment with following ESSENTIAL PERFORMANCE is intended used in Home healthcare environment and professional healthcare facility environment.

If Essential Performance is lost or degraded due to electromagnetic disturbances,this may result in inaccurate measurement and lead to mislead patients, please read below important information before to avoid possible electromagnetic disturbances.

Warning：

Using cell phone or microwave oven, HF surgical equipment, magnetic resonance imaging or other radio radiant equipment near this product may cause malfunction or lead to loss of essential performance, which means that the measurement accuracy will be affected.

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.

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 analyzer.Otherwise,degradation of the performance of this equipment could result.

Use of accessories,transducers 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.

Caution:

Security,antitheft,and radiofrequency identification(RFID)devices.Some electromagnetic anti-theft systems and metal detectors such as those used at entrances or exits of department stores,libraries,and other public places,and airport security screening devices may affect the analyzer.Additionally,RFID devices,which are often used to read identification badges,as well as some tag deactivation devices,such as those used at payment counters at stores and loan desks at libraries,may also affect the analyzer.Please do not use analyzer near these places.If you have to go

through one of these devices,turn off your analyzer.Before each usage,checking the status of your analyzer to ensure it can operating normally.

Using short-wave diathermy,microwave diathermy,or therapeutic ultrasound diathermy(all now referred to as diathermy)and electrocautery devices near this product may cause malfunction or lead to loss of essential performance,please do not use analyzer near these equipment.Before each usage,observing the device to verify that they are operating normally.

| Guidance and manufacturer's declaration-electromagnetic emissions | | |
|---|---|---|
| The device is intended for use in the electromagnetic environment specified below.The customer or the user assure that it is used in such an environment. | | |
| Emissions test | Compliance | Electromagnetic environment-guidance |
| RF emissions CISPR11 | Group 1 | The device use RF energy only for its internal function.Therefore,its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. |
| RF emissions CISPR11 | Class B | The device is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes |
| Harmonic emissions lEC61000-3-2 | Not applicable | |
| Voltage fluctuations/ Ficker emissions lEC61000-3-3 | Not applicable | |

| Guidance and manufacturer's declaration—electromagnetic immunity | | | |
|---|---|---|---|
| The device is intended for use in the electromagnetic environment specified below.The customer or the user of the device should assure that it is used in such an environment. | | | |
| Phenomenon | Basic EMC standard or test method | Professional healthcare facility environment | Home healthcare facility environment |
| Electrostatic discharge | IEC 61000-4-2 | +/-8 kV contact<br>+/-2 kV,+/-4 kV,+/-8 kV,+/-15 kV air | |
| Radiated RF EM fields | IEC 61000-4-3 | 3V/m<br>80MHz-2.7GHz<br>80%AM at 1kHz or 2Hz | 10V/m<br>80MHz-2.7GHz<br>80%AM at 1kHz or 2Hz |
| Proximity fields from RF wireless communications equipment | IEC 61000-4-3 | See the RF wireless communication equipment table in"Recommended minimum separation distances". | |
| Rated power frequency magnetic fields | IEC 61000-4-8 | 30A/m;50 Hz or 60Hz | |

| **Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment** | | | | | | |
|---|---|---|---|---|---|---|
| Test | Ban | Service | Modulatio | Maxi | Dista | Immunit |

| frequency (MHz) | d a) (MHz) | a) | n b) | mum power(W) | nce(m) | y 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 | GSM800/900,TETRA 800,iDEN 820,CDMA 850,LTE Band 5 | Pulse modulation b)18Hz | 2 | 0.3 | 28 |
| 870 | | | | | | |
| 930 | | | | | | |
| 1720 | 1700-1990 | GSM1800;CDMA 1900;GSM 1900;DECT;LTE Band 1,3,4,25;UMTS | Pulse modulation b)217Hz | 2 | 0.3 | 28 |
| 1845 | | | | | | |
| 1970 | | | | | | |
| 2450 | 2400-2570 | Bluetooth,WLAN,802.11 b/g/n,RFID 2450,LTE Band 7 | Pulse modulation b)217Hz | 2 | 0.3 | 28 |
| 5240 | 5100-5800 | WLAN 802.11 a/n | Pulse modulation b)217Hz | 0.2 | 0.3 | 9 |
| 5500 | | | | | | |
| 5785 | | | | | | |

NOTE If necessary to achieve the IMMUNITY TEST LEVEL,the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m.The 1 m test distance is permitted by IEC 61000-4-3.

a)For some services,only the uplink frequencies are included.

b)The carrier shall be modulated using a 50%duty cycle square wave signal.

c)As an alternative to FM modulation,50%pulse modulation at 18 Hz may be used because while it does not represent actual modulation,it would be worst case.

# 十四、Warranty and warranty information

**Recommended separation distances between portable and mobile RF communication equipment and analyzer**

The analyzer is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled.The customer or the user of the devices can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment(transmitters)and the analyzer as recommended below,according to the maximum output power of the communications equipment.

| Rated maximum output power of transmitter/W. | Separation distance according to frequency of transmitter/m | | |
|---|---|---|---|
| | 150kHz ∽ 80MHz $d=1.2\sqrt{P}$ | 80MHz~800MHz $d=1.2\sqrt{P}$ | 800MHz∽2.5GHz $d=2.3\sqrt{P}$ |
| 0.01 | 0.12 | 0.12 | 0.23 |
| 0.1 | 0.38 | 0.38 | 0.73 |
| 1 | 1.2 | 1.2 | 2.3 |
| 10 | 3.8 | 3.8 | 7.3 |
| 100 | 12 | 12 | 23 |

For transmitters rated at a maximum output power not listed above,the recommended separation distance d in meters(m)can be estimated using the equation applicable to the frequency of the transmitter,where P is the maximum output power rating of the transmitter in watts(W)according to the transmitter manufacturer.

NOTE 1 At 80MHz and 800MHz,the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations.Electromagnetic propagation is affected by absorption and reflection from structures,objects and people.

A. From the date of purchase, the product will enjoy one-year free warranty with the purchase invoice. During the warranty service, if you need to provide circuit diagram, components, necessary materials and electrical circuit maintenance problems, please contact the manufacturer.

B. No free warranty service will be provided for failures caused by the following personal reasons:

The following conditions are not covered by the warranty:

1. Damable and consumable parts: cover, battery;
2. Failure caused by unauthorized disassembly and refitting of products;
3. Failure to operate according to the instructions;
4. Failure caused by lack of reasonable maintenance;
5. Fault caused by inadvertence of the product;
6. Damage caused by external forces;
7. The maintenance service outside the warranty scope will be charged according to the regulations.

# 十五、Manufacturer and European Authorized Representative Information

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