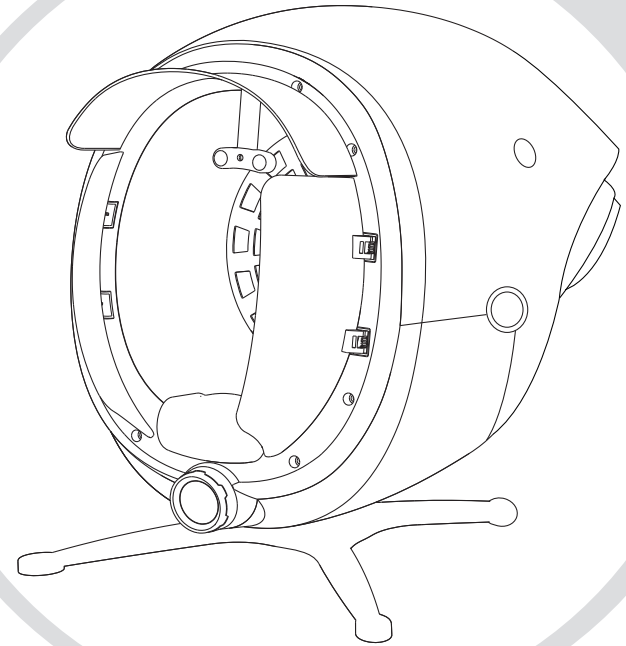


Version **Max/Plus**

AI intelligent skin tester

User manual



Model No.: ZMLH02

Product List of AI intelligent skin tester				
Name	Tag Code	Quantity	Options(√)	Remarks
Host		1 unit	√	
Power cable		1 pc	√	
Certificate		1 pc	√	
Warranty card		1 pc	√	See pages 5.2.3 for details
Manual		1 pc	√	
21.5inch Display Screen		1 pc	√	Optional Screen for Plus Version
Reminder: Please confirm whether the product accessories are complete before receiving the goods!				

Admin URL : zm.yiyuan.ai

Statement

The information contained in this manual is based on experience and knowledge gained in the product areas discussed prior to the publication of this manual.

It is believed that the information provided in this manual is accurate and reliable, but no warranty of any kind is provided, neither (but not limited to) the implied warranties of merchantability and fitness for a particular purpose, nor being liable for any loss or damage, including consequential or special damage caused by the use of this information, even if the loss or damage is caused by negligence or other error.

The contents and information of this manual may not be reproduced or distributed without permission of the copyright. Due to product upgrades and improvements, the contents of the manual are subject to change without notice.

Please read this manual carefully before installing and using ZMLH02 AI intelligent skin tester User Manual.

A number of patents for the appearance, interface, software, and some functions of this product have been declared, and plagiarism must be investigated!

Contents

1. Safety Information	1
1.1 Safety Overview	1
1.2 Electrical / Mechanical Safety	1
1.2.1 Mechanical Safety	1
1.2.2 Electrical Safety	1
1.2.3 Environmental Safety	2
1.2.5 Operational Safety	2
1.3 Adaptation and Taboo Popucation	3
1.3.1 Scope of Application	3
1.3.2 Taboo Population	3
1.4 Symbols and Labels	3
1.4.1 Safety Symbols	3
1.4.2 Transport Symbols	4
1.4.3 System Label	4
2. Product introduction	5
2.1 Overview	5
2.2 Intended use	5
2.3 Features	5
2.4 Electrical and Packaging Parameters	5
2.5 Transport and storage requirements	6

3. Instrument Installation	6
3.1 Power Requirements	6
3.2 Unpacking	6
3.3 Installation Steps	6
4. Operating Instructions	7
4.1 Power ON and OFF	7
4.1.1 Power ON	7
4.1.2 Power OFF	9
4.2 Introduction of Parameter Setting Interface	9
4.2.1 Function Operation Application	9
5. Maintenance	12
5.1 Troubleshooting	13
5.2 Maintenance Service Content	14
5.2.1 Warranty Scope	14
5.2.2 Exclusions from Warranty	14
5.2.3 Warranty Card	15

1. Safety Information

1.1 Safety Overview

According to the electrical safety classification, this instrument is classified as Class 1 and is portable general instrument.

The following is an overview of safety precautions:

- ◆ The operator shall not open the enclosure of the instrument under any circumstances.
- ◆ When working, the instrument cannot be moved. The caster used for the stand should be locked (if any).
- ◆ If the instrument does not work properly, do not repair it by yourself. You should get in touch with the relevant after-sales personnel immediately.

1.2 Electrical/Mechanical Safety

Only trained and qualified service personnel should open the enclosure to replace electrical and mechanical parts, otherwise it may cause instrument safety problems. The following is an overview of the warning messages:

1.2.1 Mechanical Safety

- ◆ The device is a desktop device. Before operating the product, make sure that the instrument is placed in a safe area. If a bracket is used, please lock the bracket casters.
- ◆ The instrument must not be operated with the host open.
- ◆ When installing/pulling out the plugs of all the accessories of the instrument, be sure to completely tighten the screw locks on the plugs clockwise counterclockwise.

1.2.2 Electrical Safety

- ◆ Lightning hazard - Ensure that the metal casing of the instrument is grounded and the protective grounding of the power supply socket is intact, so as to protect users and operators.
- ◆ Electric Shock Hazard Do not open the instrument cover during operation or when the power supply is connected. It can only be opened by an authorized service engineer.
- ◆ Please power off the system before cleaning. Cleaning includes wiping dust off the instrument surface with a soft brush or cloth, removing dust from connectors and panel edges with a brush or non-corrosive cleaner such as facial cleanser. Do not allow cleaning agents to penetrate inside the instrument. Pay special attention to the connector, the edge of the display panel, etc.

- ◆ During the operation of the instrument, if an emergency occurs, the power can be quickly cut off through the power switch below the main unit of the equipment or the power socket of the instrument can be unplugged to terminate the operation.
- ◆ If you find that the power plug or socket is too loose or the outer insulation layer of the power cord is damaged, please stop using it immediately to prevent fire or electric shock hazard.
- ◆ If the power cord or accessories are damaged, you must buy special components from the manufacturer or the maintenance department for replacement.

1.2.3 Environmental safety

- ◆ Do not operate the instrument outside the operating environment, otherwise it will cause the instrument to work abnormally. The limitations are as follows:
 - A. Operating ambient temperature range: -10°C~ 45°C
 - B. Relative humidity: ≤75%
 - C. Altitude: -500m~4600m
 - D. Power supply voltage: 100~240VAC Frequency: 50/60HZ
- ◆ Keep the environment clean and avoid shock. Keep away from corrosive chemicals, dust, high temperature and humidity.
- ◆ Electromagnetic Interference Ensure that the installation and use environment of the instrument is free from strong electromagnetic interference such as the interference of radiofrequency transmission sources (wireless transmitters and mobile phones).

1.2.4 Operational Safety

1. It should be operated by professional or trained personnel to prevent wrong operation and fail to achieve the expected effect.
2. When using the instrument, you should stop using it immediately if you feel unwell.
3. Please shut down and unplug the power cord after use to ensure safety.
4. Do not unplug the instrument during operation.
5. In the process of use, if there is any abnormality, please turn off the power of the instrument immediately, unplug the power cord of the instrument, and immediately contact the relevant after-sales personnel.
6. After the use of instrument, please turn off the power switch and unplug the power input plug from the socket.
7. The power input plug should be unplugged before starting the instrument maintenance.

1.3 Adaptation and Taboo Popucation

1.3.1 Scope of Application

- ◆ All people except those who are sensitive to RGB white light, positive polarized light, negative polarized light, UV light, blue light 405, Wood's light, red light and brown light.

1.3.2 Taboo Population

- ◆ People allergic to RGB white light, positive polarized light, negative polarized light, UV light, blue light 405, Wood's light, red light and brown light.

1.4 Symbols and labels




1.4.1 Safety symbols

	Functional earthing
	Protective earthing
	Dangerous voltage
	consult the companying file
	Alternating current
	Manufacturer
	Production Date
SN	Series No.

1.4.2 Transport Symbols

	Fragile & Be gentle
	Keep dry
	Don't tilt
	Overlap
	Upward placing

1.4.3 System Label

AI intelligent skin tester User Manual	
Instrument model No: ZMLH02	
Power input: 100–240VAC 50/60HZ 1A	
Instrument code:	
Manufacturer: Shenzhen ZhimeiLihe Industrial Development Co., Ltd.	
Manufacturer's address:	
  	
Depression: Non-professionals are prohibited from disassembling the machine	
Qualified	PASS
	ProductionDate:

2. Product introduction

2.1 Overview

AI intelligent Skin Tester is a safe, reliable, intelligent and continuous deep learning, automatic upgrade and update skin image instrument.

2.2 Intended use

- Comprehensively evaluating the skin through 14 indicators including sebum, pores, acne, wrinkles, pigment, skin tone, blackheads, dark circles of superficial skin, deep skin moisture, UV spots, pigment, sensitivity, acne, and collagen fibers.
- 3D skin simulation, skin prediction, comprehensive report analysis and evaluation.
- Visual comparison of before and after results data.
- Provide personalized solutions, editable recommendations for skin care products or treatments.

2.3 Features

- Cloud computing technology, quick and precise analysis.
- The data is objective and accurate.
- Industrial-grade high-definition camera, perfectly presenting high-definition images.
- Face recognition, automatically outline the face, saving time and effort.
- Intelligent deep learning, automatic upgrade of instruments, more and more accurate data, endless learning.
- Cloud storage with unlimited capacity.
- Support user multi-account management.

2.4 Electrical and Packaging Parameters

Input:100~240VAC
Frequency:50/60HZ
Impedance:50Ω
Output power:0~100W
Rated current:1A

2.5 Transport and storage requirements

Temperature range:-10°C~45°C

Humidity range: ≤75%

Altitude:-500m~4600m

The instrument is suitable for general transportation such as trains, automobiles, ships, and planes. During transportation, the instrument should be prevented from violent vibration, collision and drop, and should be face up, handled lightly, and protected from rain and moisture.

The instrument should be stored in a well-ventilated room without corrosive gas. When the instrument is not used for a long time, it should be cleaned and stored, and it is best to take it out and power on for 1-2 hours every year to prevent it from moisture.

3. Equipment Installation

3.1 Power Requirements

Power supply voltage:100~240VAC

The power cord used by the instrument complies with national safety standards. Be sure to use wall plugs or row plugs with safety national standard wires, which is very important for operation safety.

3.2 Unpacking

(1) Before unpacking, check whether the outer packaging is damaged. If yes, you need to contact the relevant sales outlets or sales personnel, and take and keep photos. If the instrument is damaged, please contact the logistics company as soon as possible and go through the claim procedures.

(2) After unpacking, check whether the packing list is consistent with the actual items in the box (back of the manual). If there is a shortage, you must immediately contact the seller of the instrument.

3.3 Installation Steps

(1) Open the packing box and take out the instrument, check whether its casing and accessories are obviously damaged, and whether the accessories are complete, and check the packing list (back of the manual).

(2) Plug the power cord into the instrument's power input socket and plug the power cord into a powered wall plug or power strip.

(3) Turn on the instrument, connect to the wireless Wifi network, enter the operating software interface, and start using it.

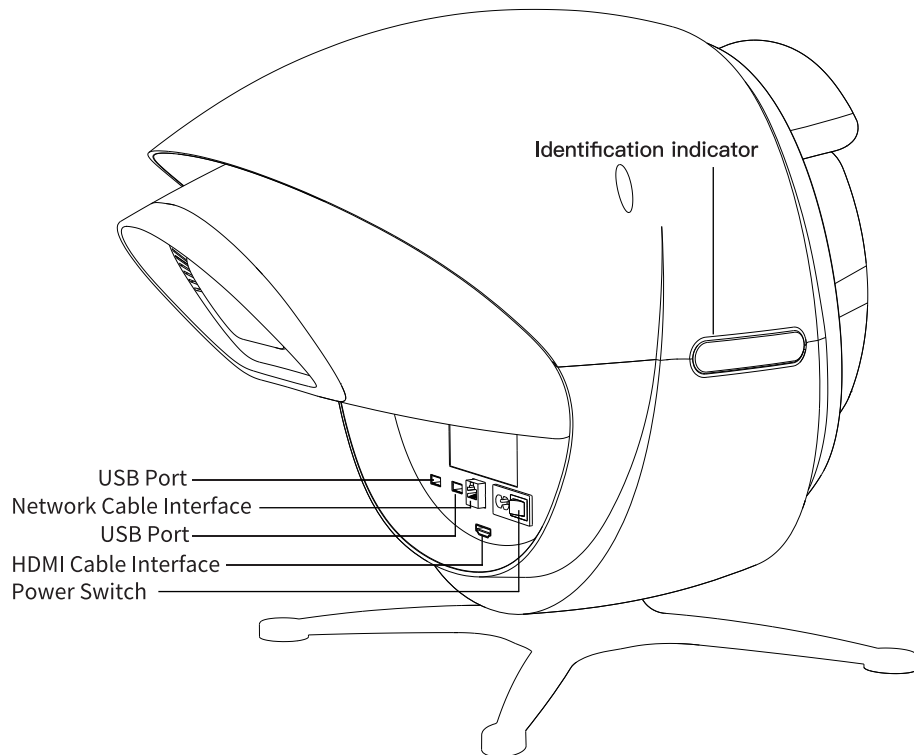
NOTE: Make sure that each plug is securely connected to the instrument jack.

4. Operating Instructions

4.1 Power ON and OFF

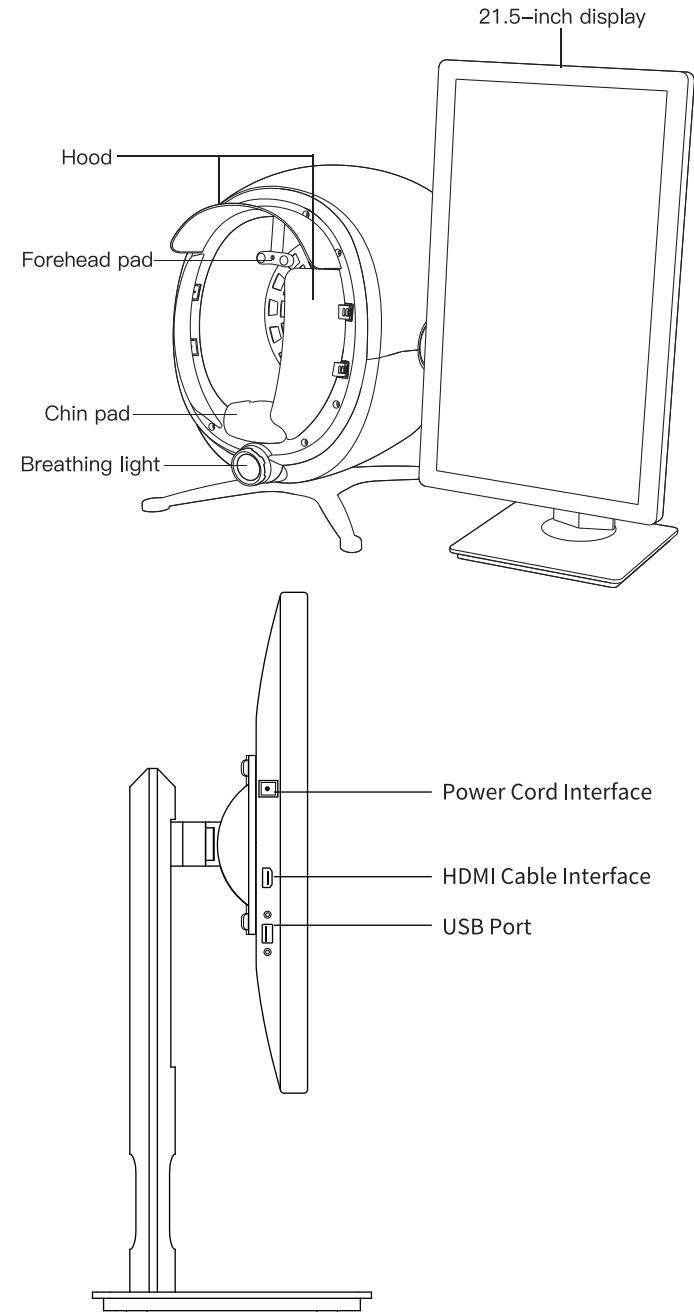
4.1.1 Power ON

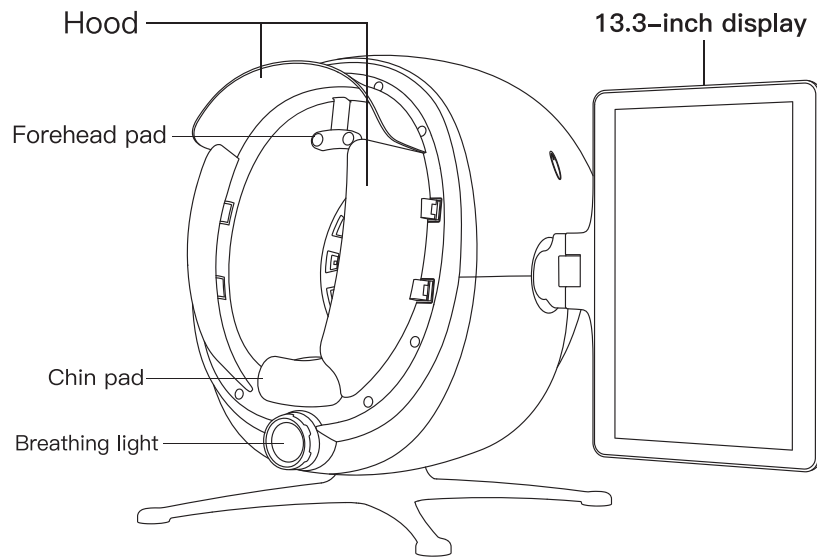
After the installation is completed according to the requirements in Chapter 3 of the manual, check to make sure that all the external communication cables are correctly installed in place, make sure the power switch is turned on, and insert the power plug to the device into the power (100-240VAC) socket. Press the switch key to turn it on.



Warning:

Ensure that the external grounding wire of the equipment is connected correctly and firmly, and the grounding wire of the equipment shall not be removed for any reason.





4.1.2 Power OFF

Press the power switch to turn it off, and unplug the power cord of the instrument.

4.2 Introduction of Parameter Setting Interface

Not yet available. See operation technical guide of AI intelligent skin tester for details.

4.2.1 Description of Function Operation

(1)Connect to the network WIFI:

After the instrument is turned on, find the logo for setting wifi on the upper right of the display desktop, click it to find the "Network and Internet" option, then turn on the wifi switch, and search for the corresponding wifi network connection on site. If there is a network cable on site, you can directly insert the network cable plug into the jack on the back of the instrument, and the network speed will be faster. Note: It can be used flexibly through the navigation keys at the bottom of the display system.

(2)Register and log in:

Click the icon "AI intelligent skin tester " on the desktop of the display to enter the skin test system interface. For new users, click "Register Now" for the first time, and follow the prompts to enter the company name ,store name ,user name, and email address, obtain verification code, set the password and confirm the password again, and finally click Register, and then click Login.

Note: If you already have an account, you can directly enter the email address and password, and you can tick "Remember the account number & password."

(3)AI skin test

Page entry: After successful login, the main page of AI intelligent skin tester will pop up. Customers who test skin for the first time can directly click the "AI Skin Tester" to enter the new file link.

File addition: Fill in the name, gender, age (Note: the real age must be entered for more accurate follow-up detection and analysis) and mobile phone No. of the member customer in turn, star rating of optional member and recommender. Click Save immediately after filling in the information successfully, then you can enter the photographing step.

Photographing: When photographing, please place your chin on the chin pad under the instrument without exceeding the front card slot, rest your forehead on the upper forehead pad, and aim at the midline of the nose (the midline of the nose can be marked on the interface), and ask the customer when photographing. Keep the face clean and remove makeup, remind the photographer to close their eyes and click "AI Skin Tester" to enter the photographing step. When photographing, the light will flash 8 times to continuously collect 8 facial images, and wait for the image data to be uploaded to the cloud server for AI intelligent analysis.

Image capture: Click "Image Capture" and 8 facial images will appear at the bottom of the interface. Click in turn to check whether there are any problems such as incorrect placement of the face, unrelaxed or inconsistent facial expressions, and incomplete shading of the exposed images. If so, please reshoot.

Skin moisture content:

Tap Skin Moisture Content to view the current skin moisture content and push relevant care programs based on the test results.

Surface inspection: Click the "Surface Detection" icon at the top of the interface, and there will be 8 items (sebum, pores, acne, wrinkles, spot, skin color, blackheads, dark circles) of detection image analysis for skin service and the corresponding quantitative analysis, precautions and recommendations.

Note: The analysis report of each item can be viewed and saved on the mobile phone by scanning the QR code.

- ① Analysis indicators: The nursing grade algorithm is adopted and divided into grades 1 to 5. The higher nursing grade, the more serious skin problem.
- ② Quantitative analysis: Analyze the definition, causes and prevention.
- ③ Precautions: Precautions in daily care.
- ④ Recommendation scheme: According to the test results, the corresponding nursing solutions are recommended. Both the precautions and the recommended scheme can be uploaded and matched by the machine owner in the background management according to their actual needs.



Deep detection: Click the "Deep Detection" icon at the top of the interface, and there will be 5 deep skin detection image analysis (PL sensitivity, UV spot, UV acne, pigment, collagen fibers) and corresponding quantitative analysis, precautions and recommended scheme.

3D simulation: Click or select a problem skin area in the picture, you can view it in 3D stereoscopic state, and the skin texture is clearly visible.

Skin prediction: During a simulation comparison of the aging and beautifying states of continuous skin care and maintenance and poor skin care and maintenance, you can move the button icon below the picture to the left and right on the horizontal line to view it. Moving to the left is the simulation of beautification state of continuous skin care and maintenance. Moving to the right is a simulation of the aging state of poor skin care and maintenance, forming a sharp contrast and visual impact, creating a sense of crisis for customers, so as to thorough and continuously care for the skin.

Comprehensive report: Interesting calculation of facial features ratio (face value, face shape, eye shape, mouth shape, facial length ratio, facial width ratio), skin structure graphic, surface comprehensive index graphic, deep comprehensive index graphic, skin attributes, skin overview, skin age predictions, general overviews and recommended scenarios.

5. Maintenance

	<p>Warning: The maintenance of the instrument should be carried out by qualified after-sales personnel or maintenance personnel who are familiar with the instrument. Before maintaining the instrument, cut off the power supply and unplug the power cord from the power socket. Maintaining the equipment with power on may cause personal injury and damage to the instrument.</p>
	<p>Notice: In the whole cleaning process, the cleaning liquid should be prohibited from infiltrating the inside of the instrument to prevent leakage or corrosion and rust of the socket, resulting in poor contact.</p>

- ① Always keep the instrument clean. After each use, cover the instrument with a ventilated cloth dust cover. The surface of the instrument can be wiped with a soft damp cotton cloth, and if necessary, non-corrosive cleaners such as facial cleansers can be used. Be careful to prevent the cleaner from penetrating into the instrument.
- ② The instrument should be operated by trained personnel. After the instrument is started, personnel must not leave their posts. Regular inspections of the main unit and all accessories should be conducted by dedicated personnel to ensure they are in good condition.
- ③ Avoid harmful gases and corrosive liquids from entering the instrument. Water must not enter the main unit to prevent insulation degradation and electric shock.
- ④ The environment for using the instrument should be dry and well-ventilated. When not in use, the entire instrument should be covered with cloth.
- ⑤ The instrument should not be collided with as its interior contains delicate electronic circuits. Do not open the instrument without authorization.
- ⑥ The instrument should always be kept clean. Use soft semi-dry cotton balls for cleaning, and clean with 75% alcohol. Do not use organic solvents such as acetone. Do not allow the cleaning solution to penetrate into the instrument during cleaning, and avoid high-temperature disinfection.
- ⑦ If the instrument needs to be stored continuously, it must be powered on and operated for maintenance when the continuous storage time reaches 6 months (1-2 hours).

**Warning:**

To avoid electric shock accident, please do not disassemble the instrument by yourself.

5.1 Troubleshooting

When the AI skin tester fails, you should judge the possible cause of the fault according to the situations, and take corresponding measures.

If the cause of the fault cannot be found out or the fault cannot be rectified according to the troubleshooting table (Table 2), please contact the special after-sales service network of your dealer to solve the problem.

Fault condition	Maintenance method
Instrument has no response after turning on	1. Check whether the power supply is connected. 2. Check if the power button is not reset
Photo upload failed	1. WIFI network speed problem (you can diagnose the network speed in the setting bar of the skin tester) 2. Get your posture right for photographing.
The instrument prompts the problems of calendar, time update after turning on.	1. Generally the instrument will automatically update to the latest date within 1-5 minutes; 2. You can operate according to the prompts, and then turn on the date switch button after turning off it.

Table 2 Faults and maintenance methods

5.2 Maintenance Service Content

5.2.1 Warranty Scope

- The main unit is covered by a one-year free warranty, while accessories and gifts are covered by a 90-day warranty, with long-term after-sales maintenance services provided.
- During the warranty period, users can enjoy unified after-sales service and a policy for replacing warranty parts.
- When repairs are needed, users must present a valid purchase warranty certificate. The warranty period starts from the date of purchase. If users lose the valid purchase certificate, the warranty period will be calculated based on the product's factory date.
- If the same component and the same fault occur again within 30 days after repair, it will be repaired free of charge.
- Parts replaced during the warranty period are owned by the after-sales maintenance center, while parts replaced outside the warranty period are owned by the user.
- Additional services promised by regional distributors and additional non-original configuration gifts are the responsibility of the distributor for maintenance.

5.2.2 Exclusions from Warranty

- (1) Damage caused by improper handling, usage, maintenance, or storage by the user.
 - (2) Damage caused by using voltage lower than 100V or higher than 240V.
 - (3) Damage caused by failure to use, maintain, or care for the product according to the instructions in the user manual.
 - (4) Disassembly or repair by unauthorized personnel not related to after-sales service.
 - (5) Damage caused by the use of accessories and products provided by unauthorized personnel not related to after-sales service without the permission of the company.
 - (6) Damage caused by force majeure (such as lightning, fire, earthquake, flood, etc.).
 - (7) Products beyond the warranty period.
 - (8) Inconsistencies between the model or serial number recorded on the invoice or warranty card and the actual product.
- In the above cases, related after-sales service personnel will implement fee-based repairs, including repair fees, parts fees, and service charges. The specific fee standards are within the permissible scope of the relevant departments.

5.2.3 Warranty Card

User name		Telephone		Zip code	
Contact information					
Model No.		Instrument code			
Buyers name		Purchase Date			

Date	Fault description	How to handle	Maintenance unit	Telephone	Maintenance staff's signature

Remark:

- The warranty card is filled out immediately upon purchasing the instrument.
- Please keep the warranty card properly, you do not need to send this card back for repairs.
- Please bring or provide a valid proof of purchase when servicing.