



XK-B002S XIANKU 3D Foot Scanner Product Specifications

Shenzhen Xianku Intelligent Technology Co., Ltd.

B002-V 2.0

Disclaimer

To protect the legitimate rights and interests of users, please carefully read the [Product Specification] and the disclaimer provided with this product before using it, and be sure to operate and use this product in accordance with the requirements of this [Product Specification].

This product helps you quickly obtain your personal foot data and status according to your needs. The data information about you obtained by the product is calculated and generated based on the hardware and software of the device. Whether it meets your purpose, the final decision is based on your personal application scenario for the data and your understanding of the relevant manuals and documents of the device.

Once you start using this product, it is deemed that you have read, understood, recognized and accepted all the terms and contents of the [Product Specification] and related disclaimers of this product. The user promises to be responsible for his own behavior and all consequences arising therefrom. The user promises to use this product only for legitimate purposes and agrees to any relevant policies or guidelines that Shenzhen Xianku Intelligent Co., Ltd. (hereinafter referred to as "our company") may formulate now and thereafter.

In the process of using this product, please be sure to strictly comply with and implement the requirements including but not limited to the [Product Specification].

For any personal injury, accident, property loss, legal dispute, and any other adverse events that cause conflicts of interest caused by the use behavior that violates the

[Product Specifications] and the Disclaimer or force majeure, the user shall bear the relevant responsibilities and losses, and our company will not bear any responsibility. Our company will not bear any responsibility for any violation of legal provisions directly or indirectly caused by the user's use of this product.

Shenzhen Xianku Intelligent Co., Ltd. guarantees the accuracy and reliability of the information provided in this manual, but is not responsible for any omissions of text or graphics that may appear in the text. Shenzhen Xianku Intelligent Co., Ltd. reserves the right to modify this manual. If there are any modifications, we will not inform you. Please contact us when ordering to obtain the latest product information. Shenzhen Xianku Intelligent Co., Ltd. is not responsible for any user's use of our products and infringement of third-party copyrights or other rights during use. In addition, when Shenzhen Xianku Intelligent Co., Ltd. clearly states the relevant use of the product, it will not be responsible for the loss caused by failure or damage caused by the use of the product under extreme conditions.

安全警示

- ❖ This product is not designed to be waterproof and should be placed in a dry and ventilated environment. Do not use this product outdoors or in harsh environments where it may be exposed to rain, lightning, dust, fog, ice, snow, hail, strong winds, or low temperatures.
- ❖ Do not pour water on this product, and be sure to effectively prevent water from entering the power socket, mirror and frame gap of this product to avoid short circuit or other damage to this product.
- ❖ When encountering thunderstorms, please unplug the power plug to avoid damage to the equipment. During use, if there is noise, odor or other abnormal usage phenomena, please immediately turn off the power and unplug the plug, and contact our customer service.
- ❖ Please make sure that the socket you use is a qualified product that has passed the national safety certification, and do not overload the power socket.
- ❖ Please make sure to use the original power cord that comes with this product and do not use power supply equipment of other brands to power this product.
- ❖ When using this product, please stay away from environments with high electromagnetic interference such as mobile phone base stations, high-power transmitting equipment, etc. Please deploy it strictly in accordance with the requirements of this [Product Specification] and place this product in a flat position to ensure the stability of this product.

- ❖ Please ensure that there are no debris, heavy objects, objects that may collapse, or other objects that may affect the stable placement of the product or damage the product around the product.
- ❖ Please avoid impacting, hitting, or pressing the glass surface of this product with solid and sharp objects. Do not scratch the glass surface of this product to prevent the glass from being damaged or shattered.

Please ensure that minors do not play, joking, chasing, playing, running and jumping around this product, or push, touch or hit this product in any way to avoid deformation or damage to this product.

目录

Disclaimer.....	错误!未定义书签。
Safety Warning.....	4
Product Introduction.....	错误!未定义书签。
Product Principle.....	错误!未定义书签。
Product Specifications	错误!未定义书签。
Product Specifications	错误!未定义书签。
Product Dimensions	8
Product List.....	10
Product Description.....	10
Instructions for use.....	错误!未定义书签。
Technical Notice.....	13
Usage Guidelines.....	14
Installation and Deployment.....	错误!未定义书签。
Venue Information:	15
Installation Process (Hardware):	16
Operating Instructions (Software):	错误!未定义书签。
Product maintenance and care.....	错误!未定义书签。

Product Introduction

Overview: The product uses a dedicated measuring device to collect depth data through an optical lens module, and then uses an independently developed supporting algorithm to analyze and process it to establish a complete 3D digital model of the foot, and output the corresponding foot data and measurement report.

Objective: Through the 3D digital model of the foot and the corresponding information obtained by the equipment and algorithm, users can fully understand the foot data and obtain diagnostic suggestions on the health status of the foot based on the data and professional knowledge. The data on the foot can realize the empowerment and technical support of its supporting industries.

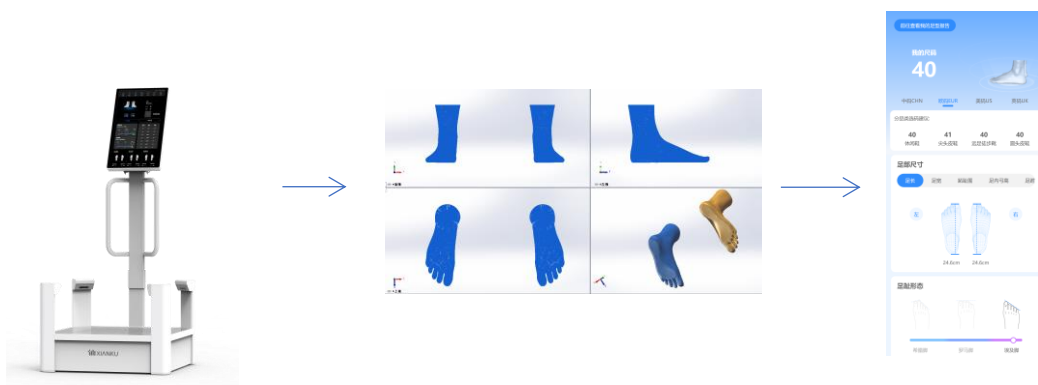
Product Principle

The product is a depth camera based on structured light imaging technology. The product projects a structured light pattern (speckle pattern) onto the target scene, collects the projected speckle pattern, and then executes a depth calculation algorithm on the image to output a depth image of the target scene. After acquiring the depth image, the product's built-in processor performs algorithm reconstruction, generates a three-dimensional data model based on the algorithm results, and performs algorithm analysis based on the data model to obtain various data and related analysis results of the foot in the target scene.

Collect foot information

Algorithm reconstruction

Analyze the results



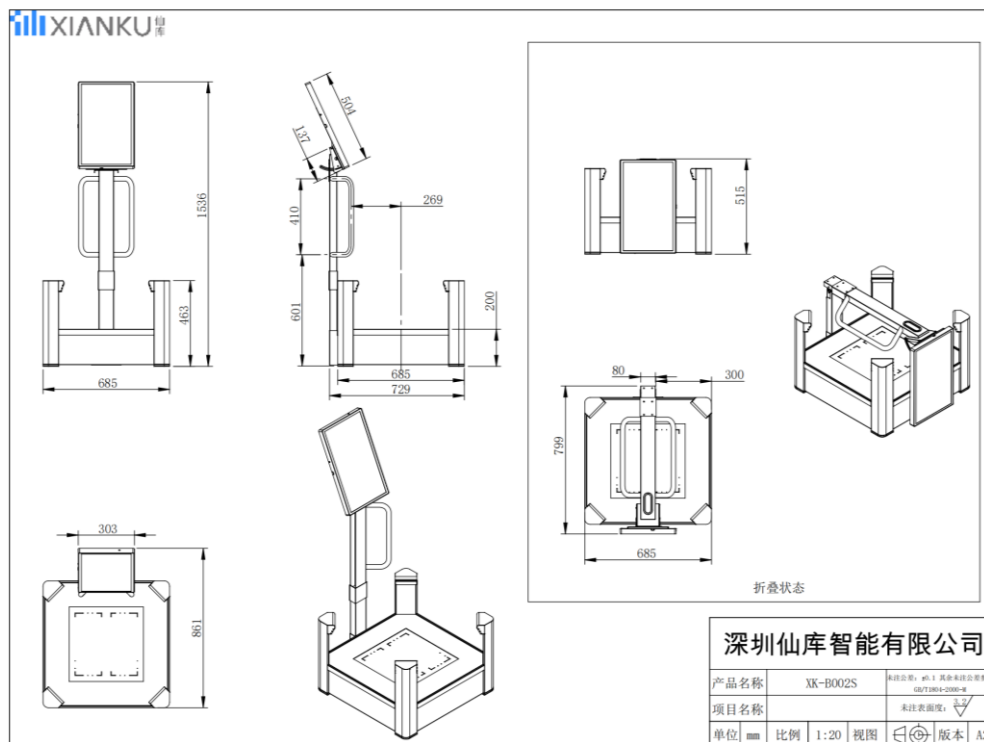
Product Specifications

Product Specifications

Product Model	XK-B002S	
Function Application	Foot type diagnosis and foot measurement	
Scanning principle	Equipped with multiple sets of structured light cameras, it can collect high-quality depth images within the range, and use self-developed data algorithms to achieve the purpose of scanning and analysis.	
Foot diagnosis items	Foot length, foot width, metatarsophalangeal circumference, tarsal circumference, ankle circumference, heel center length, heel center width, medial arch height, instep height, Chinese/European/American/British shoe size, toe shape, foot width index, plantar analysis, big toe angle, heel inclination	
Maximum number of point clouds	About 30,000	
Point cloud density	About 25/ cm^2	
Measuring range	The center range of the equipment glass surface is 400mm (length) * 400mm (width) * 150mm (height from the glass surface)	
CPU	6 cores, 12 threads, 2.1GHz	
GPU	Integrated graphics core	
Memory	DDR4 8G	
storage	128G SSD	
power supply	AC 100-240V 50/60Hz 127W	
network	Support 1000M Ethernet	Supports WiFi 6 and Bluetooth 5.2
I/O Interface	1*three-hole power interface, 1*USB3.0, 1*USB2.0, 1*RJ45, motherboard cooling port	
Touch display (optional)	Size: 21.5 inches, resolution: 1080*1920, capacitive touch, support multi-touch	
Wire length	5cm~30cm	
scanning	Scanning speed: 1-2 seconds	
	Scanning accuracy: 1 mm	
Size, material	Equipment net size (W×H×D, mm): 685×685×463 (table height 210mm upper bracket height 250mm) Floor area: about 0.49 m ²	
	Material: Q235 (surface spray paint)	
Equipment weight	Shipping weight: about 84kg (including armrests, screen) Net weight of wooden box: 30.5kg	
	Transport volume: 0.96m*0.82m*0.715m	
	Product net weight: about 53.50kg (including armrest bracket and screen)	
Work Environment	Operating temperature: 0℃ ~50℃ Storage temperature: -10℃ ~70℃ Working humidity: 5% ~90%RH, no condensation	
Measuring platform load recommendations	≤200kg	

	GB 4943.1-2022
Implementation Standards	EN 301489, EB 300328, EN 301893, EN 62311, EN 62368, FCC PART 15C, IEC/EN62321

产品尺寸图



XK· B002S Dimensions



Serial number	Material Name	quantity
1	XK-B002S Xianku 3D Foot scanner	1
2	AC three-pin power cord for foot test platform	1
3	Equipment calibration foot model	1
4	screw	several
5	Screwdriver (Phillips)	1

Product Packaging



Product Description



✧ Product Instructions!

✧ Please read the following instructions to avoid unnecessary damage!

✧

✧ **It is prohibited to place solid, sharp objects (including various metal objects) on the glass surface of the device or hit the glass surface.**

✧ **It is forbidden for multiple people to stand on the foot test platform or climb the equipment at the same time**

- ✧ It is prohibited to jump or stand on one foot during use to avoid slipping or falling and causing injuries.
- ✧ It is prohibited to get on or off the equipment at the edge or jump on or off the equipment to avoid slipping or falling and causing injuries.
- ✧ To ensure data accuracy, please measure barefoot and roll up your trouser legs above your calves.
- ✧ During the experience, please stand upright and still, and follow the instructions of the guide to maintain your standing posture.
- ✧ Pure infrared structured light scanning, no color camera,
- ✧ To ensure a good experience, the glass stand surface of the product should be cleaned promptly before each use to ensure it is free of contamination.
- ✧ Minors and the elderly must experience it under adult supervision.

Technical Notice

- ✧ After testing, this product can establish a 1:1 real data model when testing an ideal model under normal environment. [Normal environment refers to indoor environment or semi-outdoor environment, without strong light, ultraviolet light, infrared light and other interfering light sources. And not in high humidity, high

temperature or low temperature state.]

- ✧ **To ensure that the equipment can normally obtain the data of the person being collected, the person being collected should avoid wearing items made of reflective or light-absorbing materials.**
- ✧ **To ensure data accuracy, the person being collected should try to keep the lines of his feet unobstructed.**
- ✧ **Since this device only collects user's foot data and does not include color image related data, the data obtained should avoid becoming the only data for pathological analysis involving bones, muscles, etc. in the human body.**

Usage Guidelines

Please make sure you understand the product's Technical Statement and Product Experience Notes before use.

- (1) The person being measured should take off his or her feet to prevent socks and other items from affecting the test results.
- (2) The person being measured can clean his or her feet if necessary, but please keep his or her feet dry and fresh to prevent slipping or unstable standing during use.
- (3) During use, there should be at least one guide to assist in the measurement process so that the measurement process can proceed smoothly and effectively ensure the safety of the person being measured.

(4) Before each measurement, check whether there are stains or contaminants on the glass surface, and clean it in time to ensure the transparency of the glass and the accuracy of the final test data.

(5) Before each measurement, pay attention to whether the camera module of the bracket is clean and clean it in time.

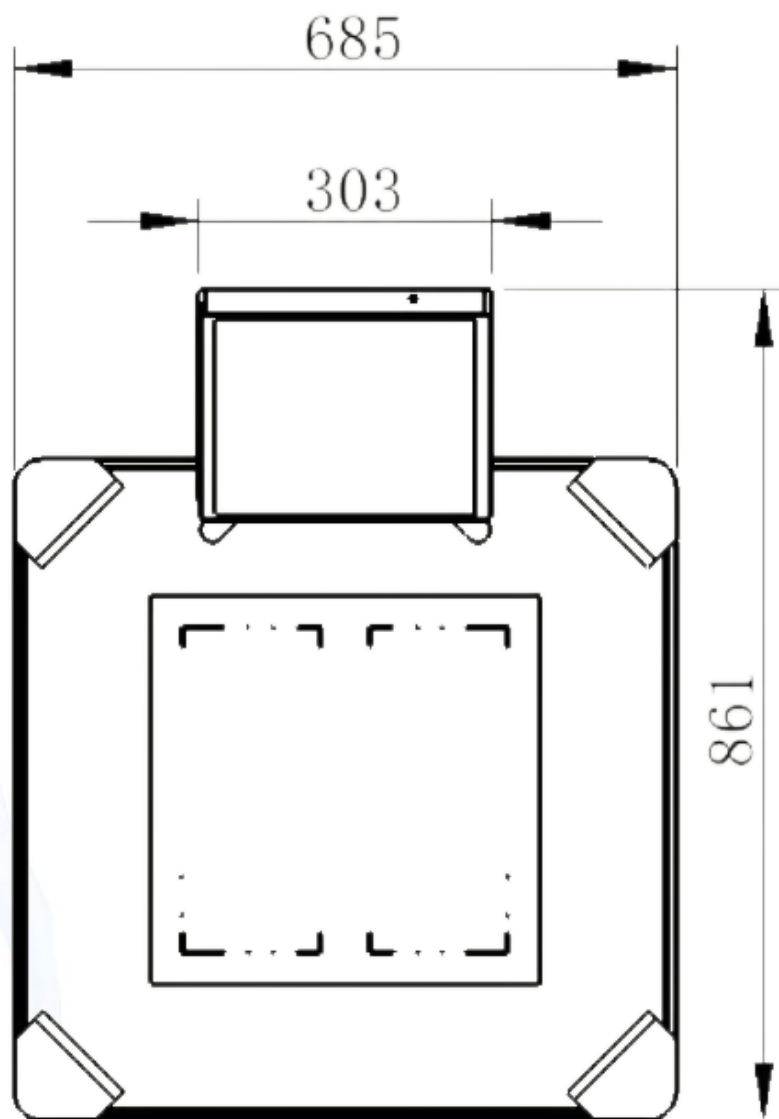
(6) The guide needs to guide the person being measured to stand still in the correct area of the silk screen on the glass surface in a reasonable posture.

Installation and Deployment

After the initial delivery and completion of the following installation and deployment, please calibrate the device according to the self-calibration in the operating instructions (software) before normal use.

Venue Information:

This product must be placed on a relatively horizontal and flat surface. Since users will frequently step on the device during use, the placement surface should be considered to avoid being too smooth or other surfaces with very low friction (the device itself is equipped with an anti-slip mat) and the placement surface should be relatively soft and fragile to avoid dents and damage caused by users stepping on the device.



B002S 占地示意图

It is recommended to reserve about 400mm on both sides of the product to facilitate users to pull the device from both sides, and also to facilitate the installation of handrails when additional handrails are needed.

When the front is away from the wall, a minimum gap of 60mm is reserved to facilitate the connection and plugging of power cords and other lines.

Installation process (hardware):

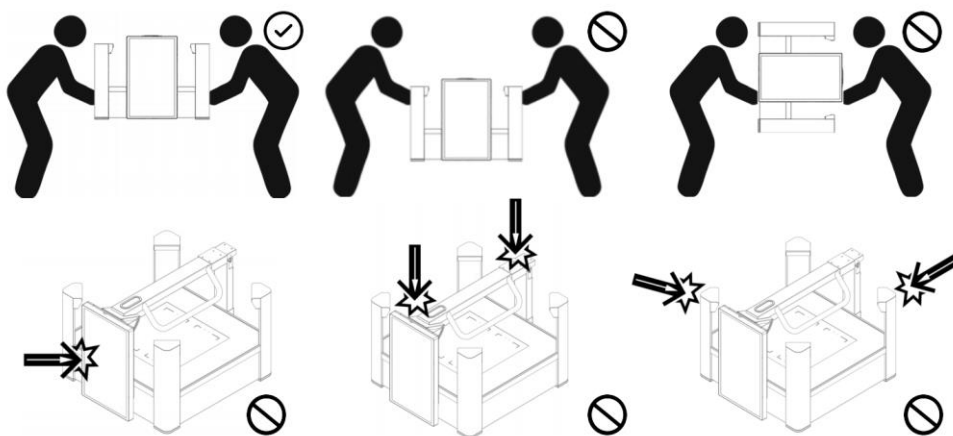
Currently, the foot test platform is transported as a complete machine and can be used directly without installation.

Installation Instructions



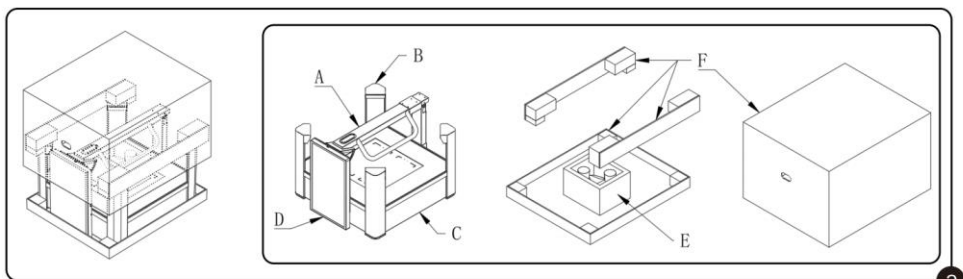
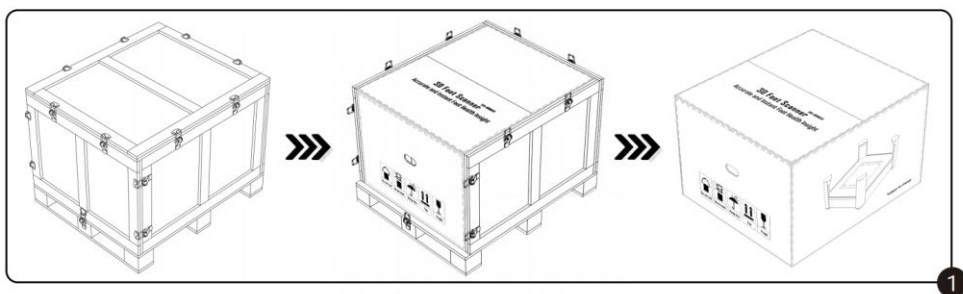
运输事项

Transportation precautions



取出设备

Take out the equipment



A: 屏幕支架 (折叠的扶手)
B: 立柱

C: 扫描平台
D: 屏幕 (带触摸)

E: 配件包 (足模/电源线/说明书/合格证/螺丝)
F: 包装材料

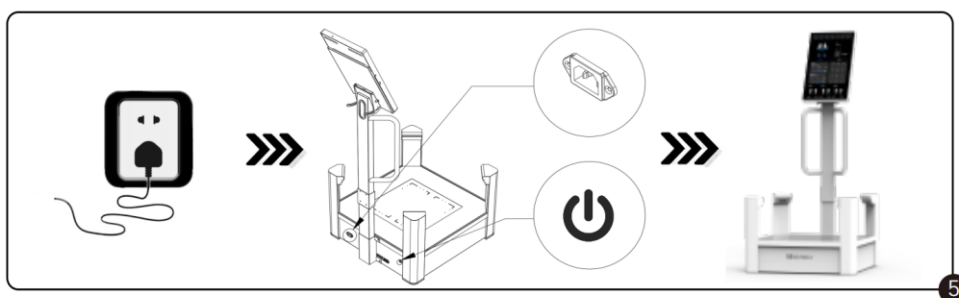
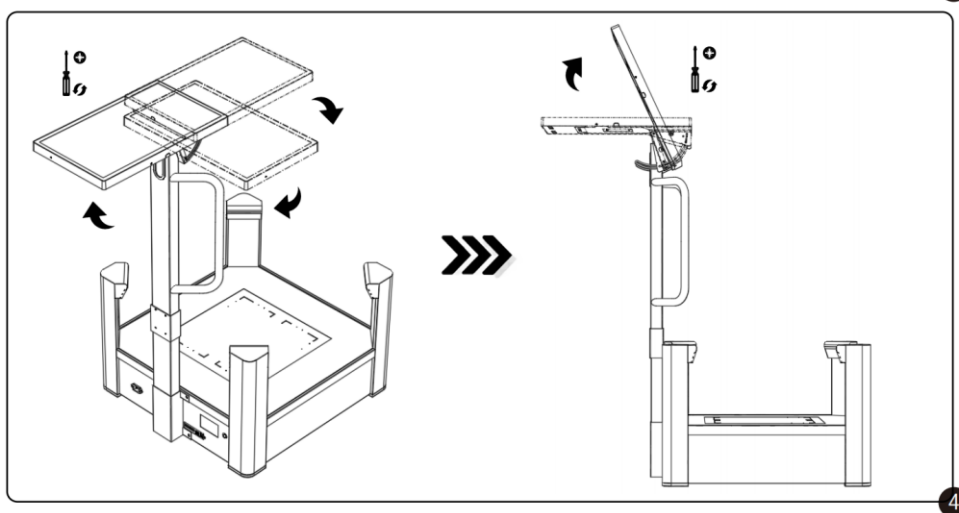
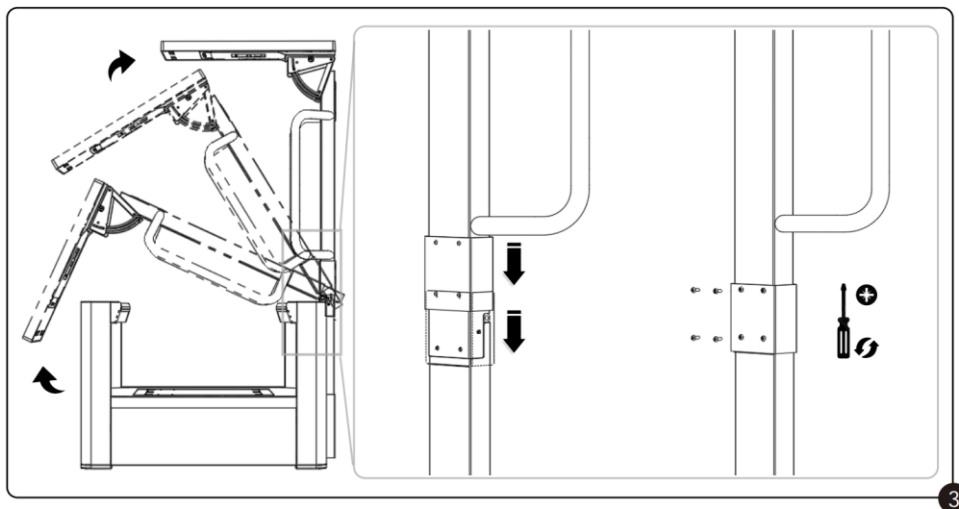
A: Screen stand (foldable armrest)
B: Camera stand

C: Scanning platform.
D: Screen (with touch)

E: Accessory package (foot model/power cord/
instruction manual/certificate of conformity/screws)
F: Packaging materials.

部署设备

Deploy equipment



标定校准

Calibration



1. 将足模按图示摆放于正确位置

足模请居中摆放与线框内。

*足模随设备配置，请勿随意丢弃或另外购买替换。

*在设备经过运输、长期未使用、首次使用时，请务必进行校准后再行测量。

*为确保测量准确性，请定期校准设备。

*进行标定或者测量前均需清理玻璃及上部支架。

1. Place the foot mold in the correct position as shown in the diagram.

Please place the foot mold in the center of the wire frame.

*Foot molds are provided with the equipment. Please do not discard them or purchase replacements at your own expense.

*When the device has been transported, not used for a long time, or used for the first time, please make sure to calibrate it before taking measurements.

*To ensure the accuracy of measurements, please calibrate the device regularly.

*You need to clean the glass and the upper bracket before calibration or measurement.

以下操作均在足测仪交互系统上操作

All the following operations are performed on the Foot Measurement Interactive System.



2. 在屏幕上方导航栏选择“标定”

2. Select "Calibration" in the navigation bar at the top of the screen.



3. 点击“开始标定”后设备自动标定，静待标定完成即可。

*标定过程中请勿移动足模，且确保扫描区域无遮挡。

*若出现标定失败，请检查并重新摆放足模后再次标定，若多次失败可与技术人员联系。

3. Click "Start Calibration" and the device will automatically calibrate. Just wait until the calibration is completed.

*During the calibration process, please do not move the foot model, and ensure that there is no obstruction in the scanning area.

*If calibration fails, please check and reposition the foot model before calibrating again. If you fail multiple times, you can contact the technician.

Note: The device is powered on by default. Please make sure that the screen power light is on before starting up, otherwise the screen will not light up.

If the above situation occurs, replug the HDMI high-definition video cable to light up the screen again.

The display shown in this document is configured by our company. If the user

replaces the display of other manufacturers, he can refer to this document for configuration as appropriate, but our company is not responsible for any unknown problems caused by this.

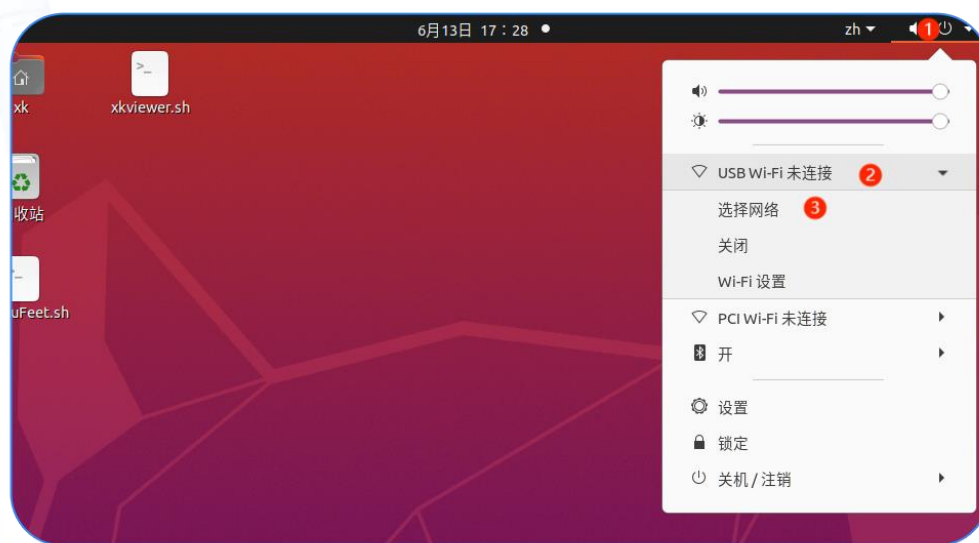


Operating Instructions (Software):

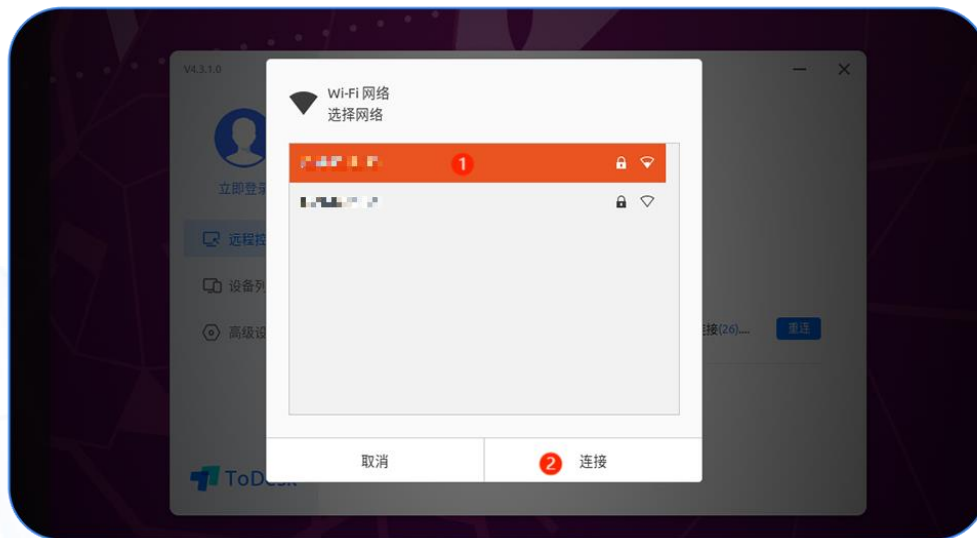
The system and interaction will be different with the upgrade iteration, please refer to the actual situation.

1. Connect to the network

1.1 Open the network settings



1.2 Select the network and click Connect



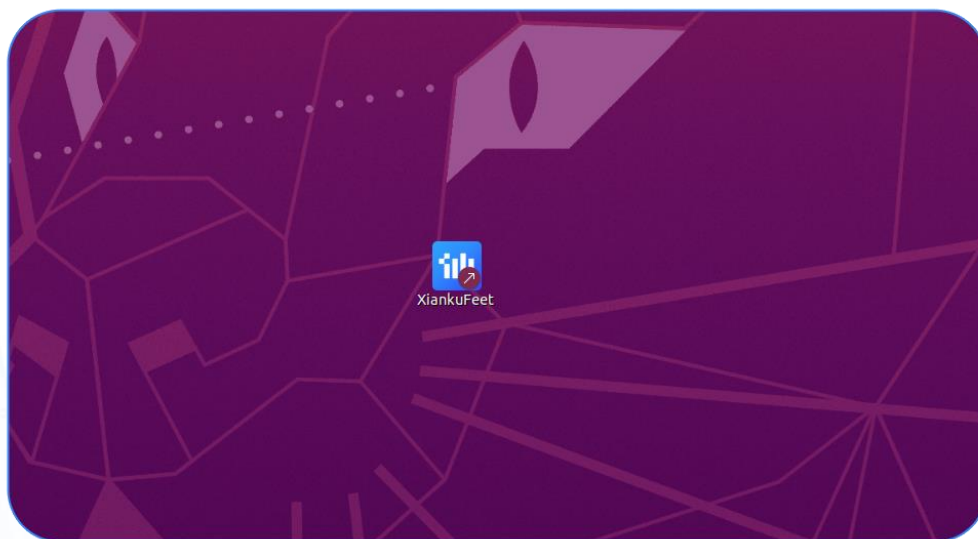
1.3 Click ① to activate the input box and bring up the system virtual keyboard

1.4 Click ② to activate the virtual keyboard

1.5 Enter the correct WiFi password, click ③ or ② to confirm, and wait for WiFi to connect successfully

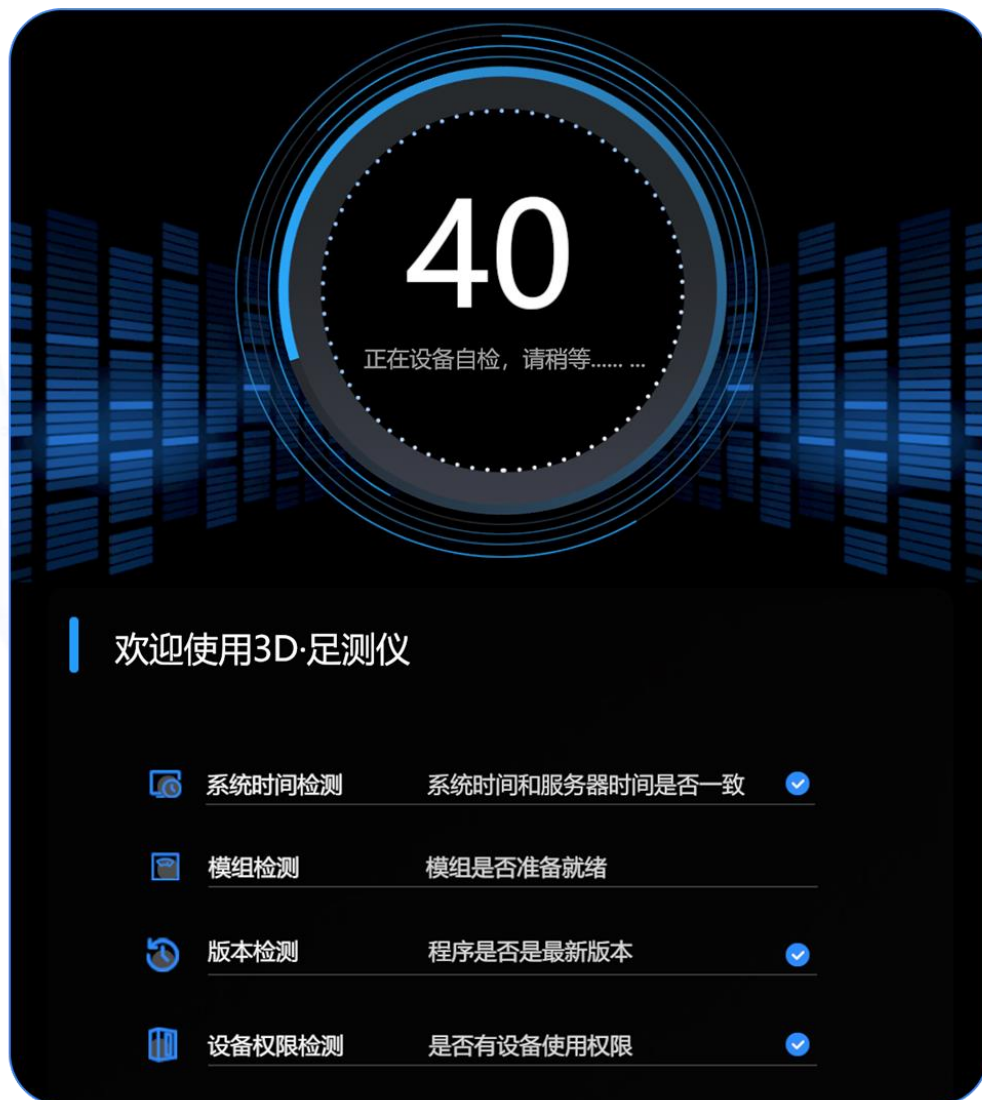


1. Double-click the icon to start the terminal interaction system



2.

1. Equipment self-check

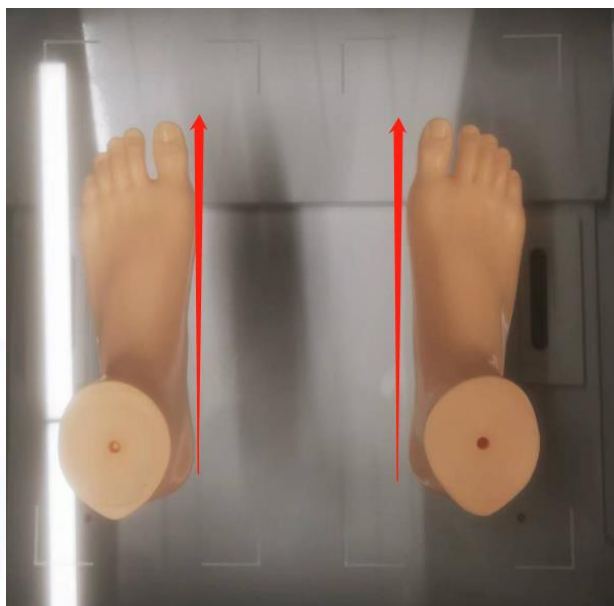


2.

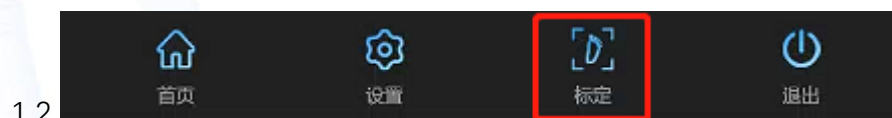
1. Equipment calibration (1. When using the equipment for the first time 2. When moving the equipment 3. When the foot model is of poor quality, calibration is required)

1.1 Place the calibration foot model in the box marked on the foot measurement platform

1.2 With the toes facing the screen, try to ensure that the inner sides of the left and right feet are placed parallel.



1.1 Click the calibration button on the navigation bar to enter the calibration interface



1.1 Click the Start Calibration button



1.2

1.1 It takes about 15 seconds for the calibration to complete and then automatically return to the login interface to start experiencing the device.



1.2

1. Log in by scanning WeChat.



2.

1. Enter the information and click Confirm



信息设置

性别 ☒ 女士 ☐ 男士

年龄 ** 

体重 ** kg 

鞋码 42

1	2	3
4	5	6
7	8	9
0	✕	

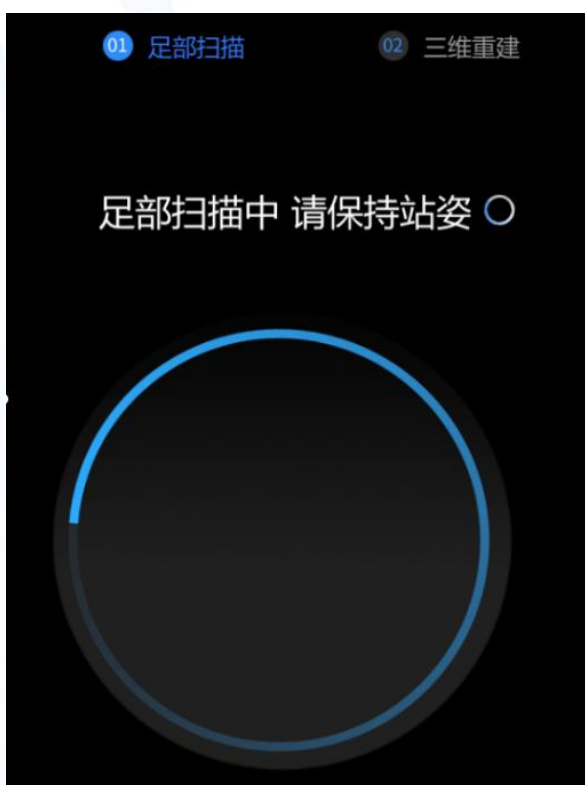
确认

2.
 1. Stand on the foot measurement platform, confirm that your posture is adjusted, and click the foot scan button



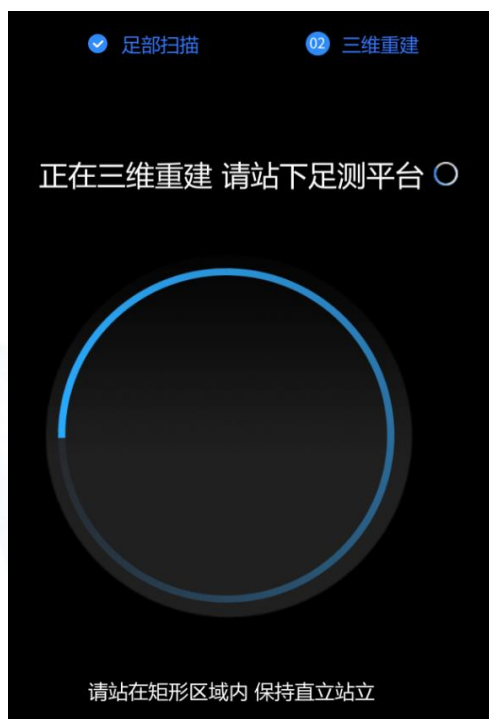
2.

1. The foot scan is completed in about 1 second, and you can stand on the foot measurement platform



2.

1. Perform 3D reconstruction of the foot based on the scan results, which takes about 3-5 seconds



2.

1. Based on the results of foot 3D reconstruction, a detailed foot diagnosis report is calculated.



2.

[返回首页](#)

[重新体验](#)

Product maintenance and care

- ❖ Try to avoid wiping the product surface with solutions containing corrosive chemicals, as these solutions may cause permanent damage to the product appearance.
- ❖ If necessary, use a clean, soft, dry cotton cloth to properly clean and maintain the product surface after turning off the power, but avoid wiping it repeatedly with force.
- ❖ If the product is accidentally soaked in water, do not directly use the hot air of a hair dryer to heat the relevant parts. Turn off the power in time to wipe the water marks and place it in a dry place to dry naturally.
- ❖ It is forbidden to disassemble this product by yourself, which may cause damage to the product and human body, and invalidate the product warranty you enjoy. The adjustment and inspection of the internal part of the product should be carried out by professionals, and non-original accessories should not be used for unauthorized maintenance and replacement.
- ❖ Do not modify this product or use this product for purposes other than the original design.
- ❖ Do not decompile, modify or inappropriately upgrade the software of this product by any means without authorization.
- ❖ Please do not cover or block the heat dissipation holes to avoid

hindering the heat dissipation of the body.

- ❖ Please do not insert sharp objects or metal touch signal connectors into the heat dissipation holes to avoid short circuits, resulting in product damage or electric shock.
- ❖ Please clean the table in time to avoid any solid, sharp objects or other unnecessary injuries that may cause the table to become smooth.



FCC warning statements:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

The device has been evaluated to meet general RF exposure requirement This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 12cm between the radiator & your body.