Product Instruction

Product Name：ALL IN ONE

Manual Version：V2.3

Please read this manual carefully before using

Warning

1. The Device is not a medical device

2. Temperature accuracy is ±0.5°

3. The temperature threshold to define if an user has fever is set by

SW to 37.5°. Make sure that the threshold is set correctly.

4. After reboot, wait 15min for Ambient temperature calibration of the device

5. The device works only in indoor or semi indoor environment. Avoid direct sunlight or rain

6. Elevated body temperature in the context of use should be confirmed with secondary evaluation methods (e.g., an NCIT or clinical grade contact thermometer)

7. Contact information

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Warning for Stand/Base

1. Please DO NOT stand on base
2. Please DO NOT touch the screen
3. We meet the 10°angle requirement for UL2361.

If potentially forces above 50N will be applied on the device, the base has to be screwed into the floor. This is valid for all directions.

FCC WARNING

Note: 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 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

2.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.

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SAFETY INSTRUCTIONS

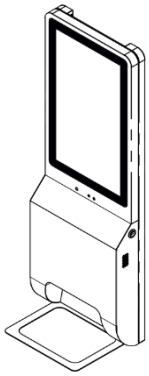
Before using the device, please read and keep the following instructions for future reference.

- Please follow the device’s user manual’s instructions.
- Make sure that the local power supply meets the power requirements of the display.
- Do not block the vent at the back of the monitor, and make sure there is enough space around the monitor to dissipate heat.
- Do not open the cover. Damage caused by improper use is not covered by the warranty.
- Our company's software products are protected by copyright. Unauthorized reproduction is not allowed.

During installation and use, please observe the following points:

- Do not place the product in the sun, strong reflection will interfere with the user's experience when watching content on the display. And it will cause errors in temperature measurement.
- Do not install near any heat source, such as radiator, heater, furnace or any other product (including loudspeaker) that may generate heat.
- Do not install the monitor on an unstable, tilting or shaking platform or cart. It can cause the monitor to fall, harm people around it and damage the monitor itself. We recommend consulting professionals to ensure the safety of the monitor.
- Always observe all warning and instruction labels on the display.
- Do not install the monitor in a closed environment.
- If you want to install the monitor on an embedded wall mounted wall, make sure there is enough space around the monitor to ensure good ventilation and avoid operating at abnormal temperatures.
- Avoid excessive pressure or temperature changes as special materials in the display can cause cracks, scratches or damage.
- When the monitor is powered on, do not cover or block any vents in the monitor. It is recommended to clean the ventilation holes of the monitor regularly to ensure heat dissipation.
- Keep candles or other flammable materials away from the display area to avoid the risk of fire.
- Do not insert fingers or other objects between the monitor and its base or adjacent area, so as not to hurt yourself or damage the monitor.

1 Product overview



（Shown for reference, to correspond to the actual product Num kind）

This product is a high-capacity exists for face recognition application process, high-performance, wide application, can be customized and so demand, the introduction of a hardware intelligent face recognition, face recognition algorithms can be combined, without the user together to achieve in vivo detection, face recognition dynamic, to provide users with a safe environment

The product is based on Rockchip RK3399, dual-core Cortex-A72 (2.0 GHz) and quad-core Cortex-A53 application processor (1.4GHz), 200W RGB + IR binocular camera, supports BT, WIFI + Gigabit networking, and provides abundant peripherals interfaces of security, access management control to meet the needs.

The product is suitable for office areas, hotels, access gates, office buildings, schools, shopping malls, shops, communities, public services and management projects that require face recognition.

2 Features

No.	Feature	Content
1	Performance	Combined with face recognition algorithms, support 10,000 face base library.
2	Algorithm	Supports autonomous porting of algorithms, tested by domestic top AI algorithm manufacturers.
3	Speed	Combines face recognition algorithms to complete face recognition at high speed.
4	Anti-counterfeiting	Binocular face recognition, support infrared live detection.
5	Interaction	Using TOF human body detection, 21.5-inch ultra-clear touch screen + sound

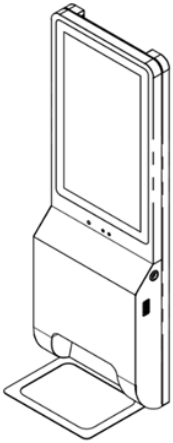
6	Environment	Super strong environmental adaptability, under low light and strong backlight, it has a good performance.
7	Stable	Android or Linux, server-level stability.
8	4G	4G module can be built in(optional)
9	Dispark	Provide SDK to meet the secondary development needs of SI / ISV vendors.
10	RF function	WiFi: Frequency Range:2412Mhz~2462Mhz, 2412Mhz~2472Mhz maximum output power.0.035W Bluetooth: 5.0 Frequency Range: 2402Mhz~2480Mhz maximum output power.0.004W

3 Performance Specifications

Classification	Project	Parameter Description			
Device host	Equipment shell	Metal materials			
	Operating system	Android 7.1			
	Processor	RK3399 Dual Cortex-A72 + Quad Cortex-A53 Core Structure 64-bit CPU,			
	Internal storage	4GB	Storage：	16G	
	Display	21.5 "resolution 1920*1080	Touch screen	21.5"multi-point capacitive touch screen	
	Interface	Ethernet	10/100/1000Mbps		
		WIFI	Support	Bluetooth	V4.0
		Data interface	USB2.0*1		
		Microphone	x1	Sound	Horn3W*1
		Power interface	110~240V power supply	Button	Infrared induction disinfection
		Relay interface	*1	Access control interface	*1
	Working environment	Operating temperature	-0℃ ~ +50℃	Storage temperature	-10℃ ~ +60℃
		Working humidity	20%-90%Non-condensing	Machine power consumption	Max <35w
		Protection class	Front IP55	Timing switch	Support
		ESD	±4kV contact；±8kV air		
	Features	Equipment tampering	Tamper remind	Human detection	Infrared distance detection
		voice	Voice broadcast temperature		
		Video	RGB camera	200 W wide dynamic	
			Infrared camera	200 W	
Optional	IC card	NFC（ISO14443A;ISO14443B Contactless IC card）(optional)			
	Algorithm	Live detection、Face recognition			
	Upright	Gate installation			
	GPS	optional			
	Stand	Installation of stand bracket			

4 Product List

Serial number	Content	Quantity
1	Host	*1
2	AC cable(Euro code & US Code)	*2
3	WIFI antenna	*1
4	Tray	*1
5	Install the screw pack	*4
6	Remote control	*1
7	Keys	*2
8	Operating instruction（Certificate of conformity, product warranty card）	*1



WIFI antenna

EU cable

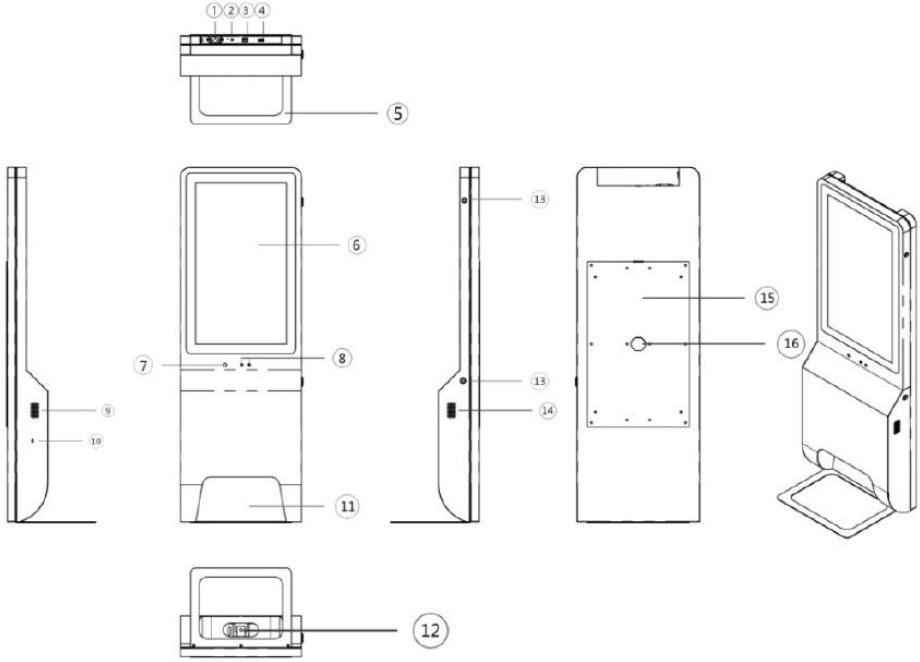
US cable

Wall screws

Keys

Tray

5 Product structure



(Structural Representation)

Component number	Instructions
1	AC110~240V Power input
2	WIFI antenna
3	RJ45
4	USB
5	Tray support
6	Capacitive touch screen
7	Thermal imaging sensor
8	Face recognition camera
9	Loudspeaker holes
10	Remote control receiving head
11	Position of hand
12	Sterilizing liquid outlet
13	Lock

14	Loudspeaker holes
15	Wall mounted panel
16	Reserved cable holes for access control, etc

6 Relay module specifications and operation instructions

Module description:

1. The module adopts genuine high-quality 30A relay, with the maximum load of normally open interface: AC 250V / 30a, DC 30V / 30A;
2. It adopts SMD optocoupler isolation, strong driving ability, stable performance, trigger current 5mA;
3. Module working voltage 12V;
4. Module can set high level or low level trigger through jumper
5. The power on jumper of the control terminal voltage and the trigger terminal voltage of the relay can achieve complete isolation of the front and rear stages, and can meet the requirements of different voltages of the front and rear stages (for example, 12V for the relay and 5V for the trigger);
6. Fault tolerant design, even if the control line is broken, the relay will not act;
7. Power indicator (green), relay status indicator (red)
8. The interface design is humanized, and all interfaces can be directly led out through the wiring terminal, which is very convenient

Technical parameters

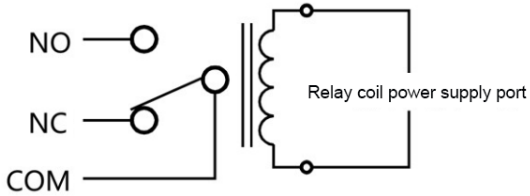
Relay version	static current	maximum current	trigger current	trigger voltage (low)	trigger voltage (high)
12V	5mA	80mA	2-4mA	0-4V	4.5-12V

Module interface description:

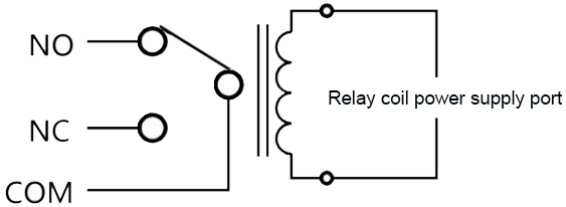
1. DC +: module DC supply positive (trigger terminal voltage positive)
2.DC-: module DC power supply negative pole (trigger terminal voltage negative pole)
3. In: signal trigger terminal (default trigger voltage is the same as power supply)
4. JD +: control terminal voltage positive pole of relay
5. JD -: negative voltage of relay control terminal
6. DC + and JD + are short-circuited with jumper caps, DC - and JD - are short-circuited with jumper caps, and the trigger end has the same voltage as the relay control end
7. Normally closed port(NC): relay normally closed port
8. Common port (COM): relay port
9. Normally open port (NO): relay normally open port

Usage method

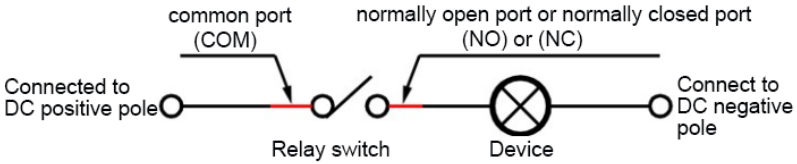
The following details the principle and use of the relay. Please read it carefully before use to avoid wrong circuit connection:



When there is no voltage at both ends of the relay coil or the voltage is insufficient, the common port (COM) of the relay is connected with the normally closed port (NC).



When the voltage at both ends of the relay coil reaches the pull-in voltage, the common port (COM) of the relay is connected with the normally open port (NO).

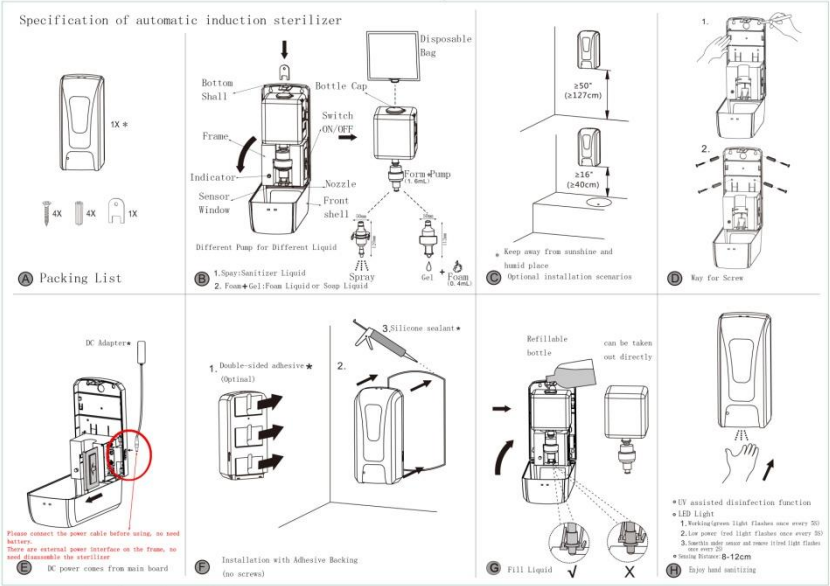


When the relay switch is closed, there is voltage at both ends of the device, which can work normally. When the switch is open, it will not work

Working principle of relay

As long as a certain voltage is applied to both ends of the coil, a certain current will flow through the coil, which will produce electromagnetic effect, and the armature will be attracted to the iron core by the force of the electromagnetic force, so as to drive the dynamic contact and the static contact (normally open contact) of the armature to close. When the coil is powered off, the electromagnetic attraction will disappear, and the armature will return to its original position in the spring reaction force, releasing the moving contact and the static contact (normally closed contact). In this way, the circuit can be switched on and off. For the "normally open" and "normally closed" contacts of relays, they can be distinguished as follows: the static contacts in the off state when the relay coil is not energized are called "normally open contacts"; the static contacts in the on state are called "normally closed contacts". The relay generally has two circuits, which are low-voltage control circuit and high-voltage working circuit.

7 Operating instructions of sterilizer



Remarks: Capacity: 1000ML

Material: ABS

The induction spray sterilizer is an automatic spray sterilizer which adopts digital circuit control and infrared automatic induction. It has the advantages of stable and reliable operation, strong anti-interference ability of light source, sensitive induction, etc. Infrared automatic induction liquid, suitable for all kinds of disinfectant, alcohol, liquid medicine, hand sanitizer. The driving circuit with low energy consumption and long service life is an ideal product in public places.

Product features:

*Fully automatic induction - avoid bacterial infection caused by release

*Fully automatic power saving chip --- more energy saving and environmental protection.

*Humanized design: easy to install, easy to use and long service life

* Automatic continuous spray function. When continuous induction, disinfector will be sprayed once every 3S, and the indicator light will display red for warning.

Use steps:

1. Open the bottle cap, import the disinfectant, alcohol, liquid medicine into the container, and close the bottle cap. The maximum capacity is 1000ml.
2. When the pump is used for the first time, press the pump head several times by hand to discharge the air in the pump body.
3. The indicator light is green, indicating the normal working state.
4. When using, put your hand within 8mm below the nozzle, the device will spray liquid once automatically, about 1ml each time. If your hand does not leave the sensing range, the sterilizer will discharge liquid once every 3 seconds, and the indicator light will display red for warning.

Technical parameter:

Rated voltage	DC6V×1.5A	Capacity	1000ml
Sensing distance	8cm±1cm	Spray volume	1ml/time

Matters needing attention:

1. In order to prevent misoperation, at least 20cm space shall be reserved under the nozzle, and it shall not be installed on the place where the strong sunlight hits and above the strong reflector.
2. Prevent any object from blocking the liquid outlet.
3. Keep the liquid in the container clean and free of other bar and block impurities.
4. Avoid using water to direct the device.
5. If there is liquid in the container during disassembly, it is forbidden to lay the product flat to prevent the liquid from flowing out of the wetted motor and circuit board, causing damage. The liquid needs to be poured out before it can be laid flat.

8 Installation Notes

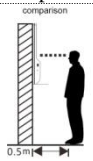
Environmental requirements

In the use of the product, we must strictly abide by the national and regional all-electric procedures. If the device is not working properly, do not disassemble repair yourself, otherwise it will affect the equipment warranty. Installation process to avoid extreme heat (or cold), high humidity, strong backlight, vibration, radiation, chemical corrosion and other harsh or extreme environments.

Lighting environment	It recommends installation in indoor or semi-outdoor environment, ensuring good lighting conditions, avoid direct sunlight or low light affect the recognition speed, to avoid facing the glass door or glass wall.
Web environment	It recommends installation in open network environment, to avoid the bad effects of network recognition speed and accuracy.

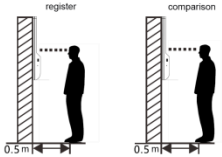
Use position

Recommended personnel standing position



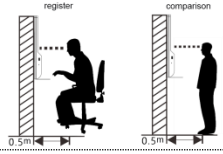
The recommended distance between people and machines to 0.5M (for m tall range -1.85 1.55 m), the device can be adjusted according to the acquired face image effect. When a larger face image can be appropriately moved rearward; small when the face image suitable movable forwardly.

Recommended position

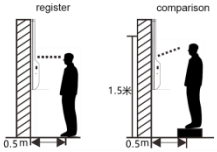


Registration and during use, installation location of the device must remain unchanged. If it proves necessary mobile device location, you must install highly consistent. If not, the device may result in poor recognition performance. Distance proposals face and the machine is registered as 0.5-0.8Meter.

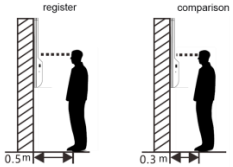
Several methods to identify the effect affect



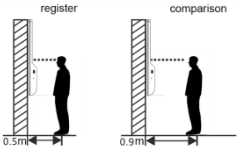
Posture discrepancy



Height discrepancy

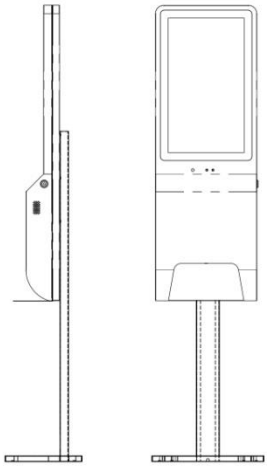


Too close



Too far

8.1 Stand installation



(Installation effect diagram)

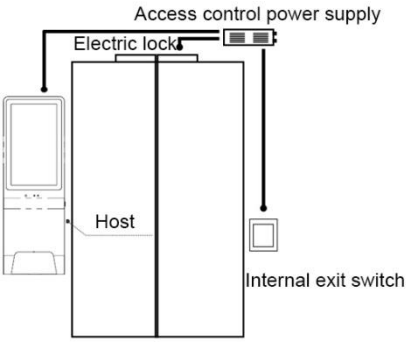
The mechanical structure of the device has been considered in the design of vertical standing, so it is not necessary to make fixed points for standing.

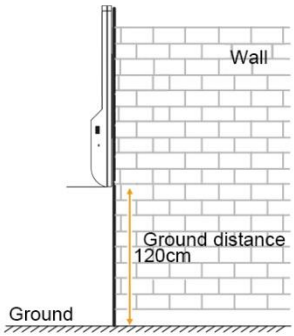
This installation method is used to control the turnstile. The access control cable can pass through the back of the device, open the device, and connect the access control cable to the relay.

8.2 Wall mounting

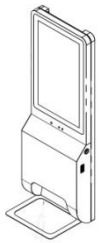
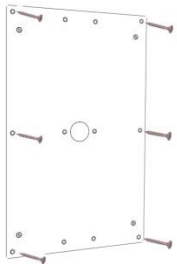
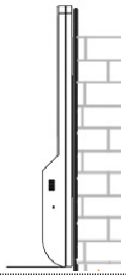
8.2.1 Installation location

The installation position of the host equipment is Wall mounting. The bottom of the device is about 120cm above the ground.

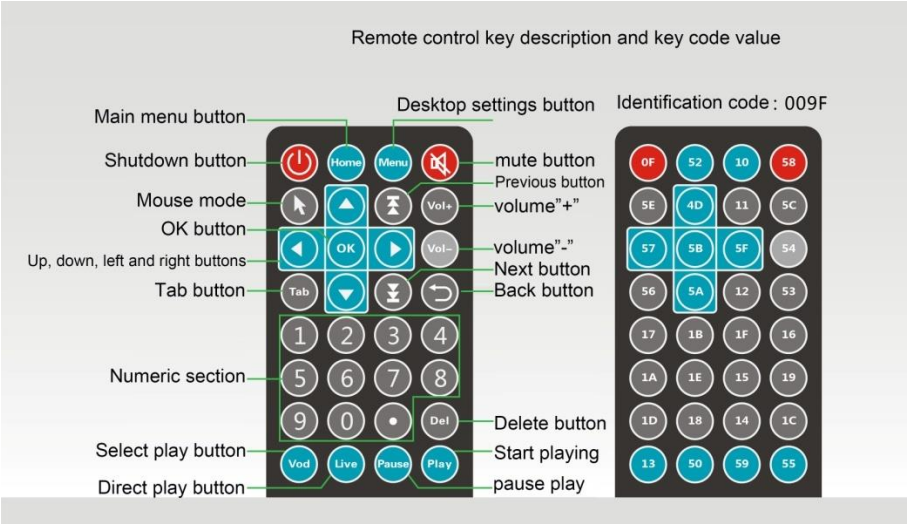




8.2.2 Installation steps

	
Step 1: Fixed tray support	Step two: Fix the wall panel to the wall
	
Step 3: Hang the device on the wall panel	Step 4: Plug in the power cable from the top

9 Remote control



10 Toxic and hazardous substances stated

Part name	Toxic and harmful substances or elements					
	Plu mbu m (Pb)	Mer cury (Hg)	Cad miu m (Cd)	Chromi um VI (Cr(VI))	PBBS (PBB)	PBDE (PBDE)
Shell	○	○	○	○	○	○
Circuit board and its components	○	○	○	○	○	○
Power Adapter	○	○	○	○	○	○

This table is prepared according to SJ / T11364.

○ Indicates that the content of the hazardous substance in all homogeneous materials of the component is below the limit specified in GB/T26572.

X Indicates that the content of the hazardous substance in at least one homogeneous material of the component exceeds the specified limit requirements of GB/T26572.

This term refers to the identification period (ten years), electrical and electronic products harmful substances will not leak or mutation occurs under conditions of normal use, will not cause serious pollution to the user using the electronic information products on the environment or their personal and property Term cause serious damage.

This product complies with RoHS environmental protection requirements: At present, there is no mature technology in the world that can replace or reduce the lead content in electronics, ceramics, optical glass, steel and copper alloys.

11 Warranty card

Thank you for purchasing our company's products. In order to ensure the interests of our customers, if users purchase our products, if the product fails due to quality problems, they can contact the local dealer or special repair station with the invoice and warranty card.

Warranty notice：

1.Within one year from the date of purchase, in case of failure under normal use, the company shall provide free warranty, parts replacement and other services according to the failure;

2.The warranty card and purchase invoice is the company to provide service to customers vouchers, the card must fill out the form below and behind the official seal stamped by the dealer effective;

3.Any of the following circumstances, the practice of free warranty service, needs maintenance fees;

(1)Over the warranty expiration date;

(2)Damage caused by improper use, maintenance or storage as required by the product instruction manual;

(3)Failure or damage caused by disassembly, repair, or modification of the product without our company's permission;

(4)Machine failure or damage caused by force majeure;

(5)Consumables and accessories。

Purchase date:

Commodity information	Product name		Factory number	
	Product model		Date of manufacture	
Customer information	Company name		Contact person	
	Address		Contact number	
Sales information	Seller name		Contact person	
	Address		Contact number	
	Sales date		Invoice number	

Maintenance record	Fault condition	Maintenance results	Customer signature	Maintenance Signature	Date

This card is distributed with the product. One card per machine. To ensure that you can fully enjoy the right of the free warranty service provided by our company, please keep this card properly.

Certificate

Inspector:

Production Date: