

# MANUAL CONTENTS

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# Walk Through Metal Detector Instruction Manual



## **WARNING**

### **SAFETY INFORMATION, INSTALLATIONS AND GENERAL GUIDE**

- It is important to refer to the instructions in this manual during the installation, operation, and maintenance of the equipment. Not responsible for any damage to the equipment due to improper use or not following the instructions in this manual.
- Please read this manual carefully before installing, operating, and performing maintenance on the equipment.
- When not using this manual, keep it intact. Follow the manual technical instructions for all operations regarding the equipment, including installation, use and maintenance.
- All personnel performing operations on the equipment must be adequately prepared and should understand the procedures described in the manual.
- All operators and installers shall comply with existing regulations regarding electrical and personal safety when installing and commissioning equipment. This manual must be kept with the equipment until it is damaged

### **USER WARNING**

- Perform regular maintenance. Do not use water, liquid cleaners and chemicals to clean the equipment. Use a slightly damp, soft cloth to clean the equipment.
- Always disconnect all power sources before servicing, cleaning and moving equipment. Any faulty part must be replaced using the relevant specification parts designed for this equipment.
- Avoid, as far as possible, maintenance or repair of equipment while it is energized or in operation; if repairs must be made in such cases, they must be done by skilled technicians who understand the hazards.

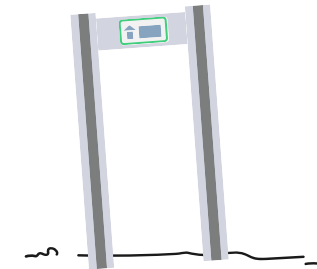
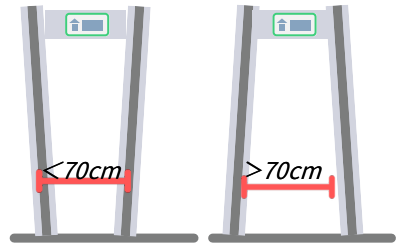
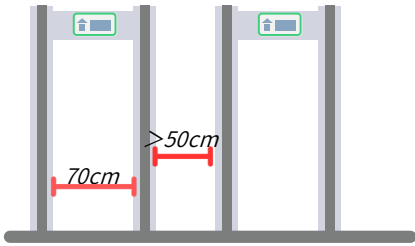
## **INSTALLATION PRECAUTIONS**

Welcome to use our series of metal detection doors, the following safety precautions are intended to tell you how to safely and correctly operate this product. Please read them in detail and make sure you understand them before you start reading the rest of this booklet.

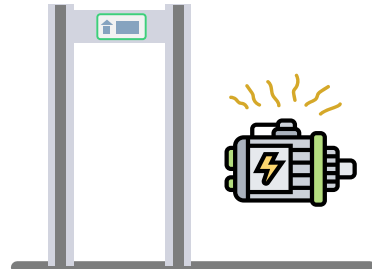
- All operators and installers shall comply with existing regulations on electrical and personal safety when installing and commissioning equipment.
- The installation site should be carefully selected to avoid direct exposure of the equipment to sunlight or near heat sources, and to avoid shaking the equipment, dust, humidity, rain, and high or low temperatures.
- The product is only suitable for indoor use, such as really need to install in outdoor, should be attached to the rain and sun protection facilities such as canopy.Except for waterproof models
- Installation must be carried out by qualified personnel. Depending on the size of the equipment, the installation site is required to be kept clean to facilitate installation and setup and to avoid any third party damage.
- After installation, the equipment must be stable and not shake or move occasionally. All connections must be properly secured against vibration and sudden failure in order to get the best out of the equipment.
- Do not apply external forces to the equipment during installation, use and maintenance.
- The installation site is as far away as possible from the power lines and communication cable lines.
- Non-professional personnel shall not disassemble the components on the electrical control box without authorization.
- There should be no large pieces of metal and strong magnetic fields within 2 meters around the detection door to avoid interference. If the installation site near the channel has a metal door frame, metal detection door and the distance between the metal door must be more than 500mm (depending on the size of this door); should exclude, for example, generators, televisions and other electronic products working at similar frequencies, should be avoided, such as revolving doors, to and from vehicles and other large moving metal objects; use two or more products, should avoid products working at the same frequency.The installation site is as far away as possible from the power lines and communication cable lines.
- After the security door is turned on, it must be self-checked for 1 minute to achieve the best detection effect.

## GENERAL GUIDE

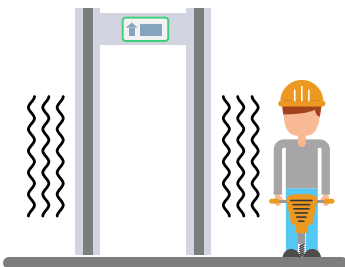
The distance between door panels should be kept at 70cm, and the distance between two doors should be kept at least 50cm when placed side by side.



Tilt installation



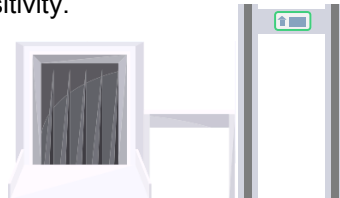
Motor interference



Vibration interference

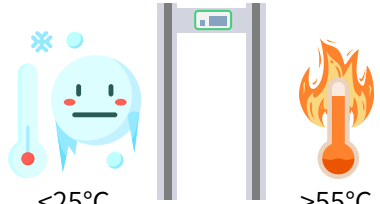


Keep a distance when using it with xray baggage scanner. This distance depends on the sensitivity.





Windy environment



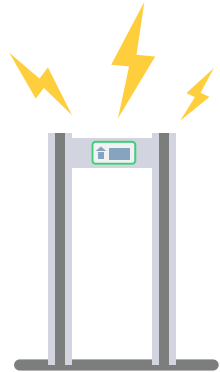
<25°C  
High and low temperature°C  
environment



Vibration interference



Lightning environment



## **PROPER USE OF EQUIPMENT**

The metal detector door is a device that responds to a person carrying a large amount of metal through the door body. As part of the normal inspection procedure, the subject is required to walk through the detector door. A complete analysis requires a person to pass through the door completely.

## **MEDICAL SAFETY INFORMATION**

- Comply with the standards for human exposure to electromagnetic fields
- Metal detection doors meet the regulatory requirements for human exposure to electromagnetic fields.

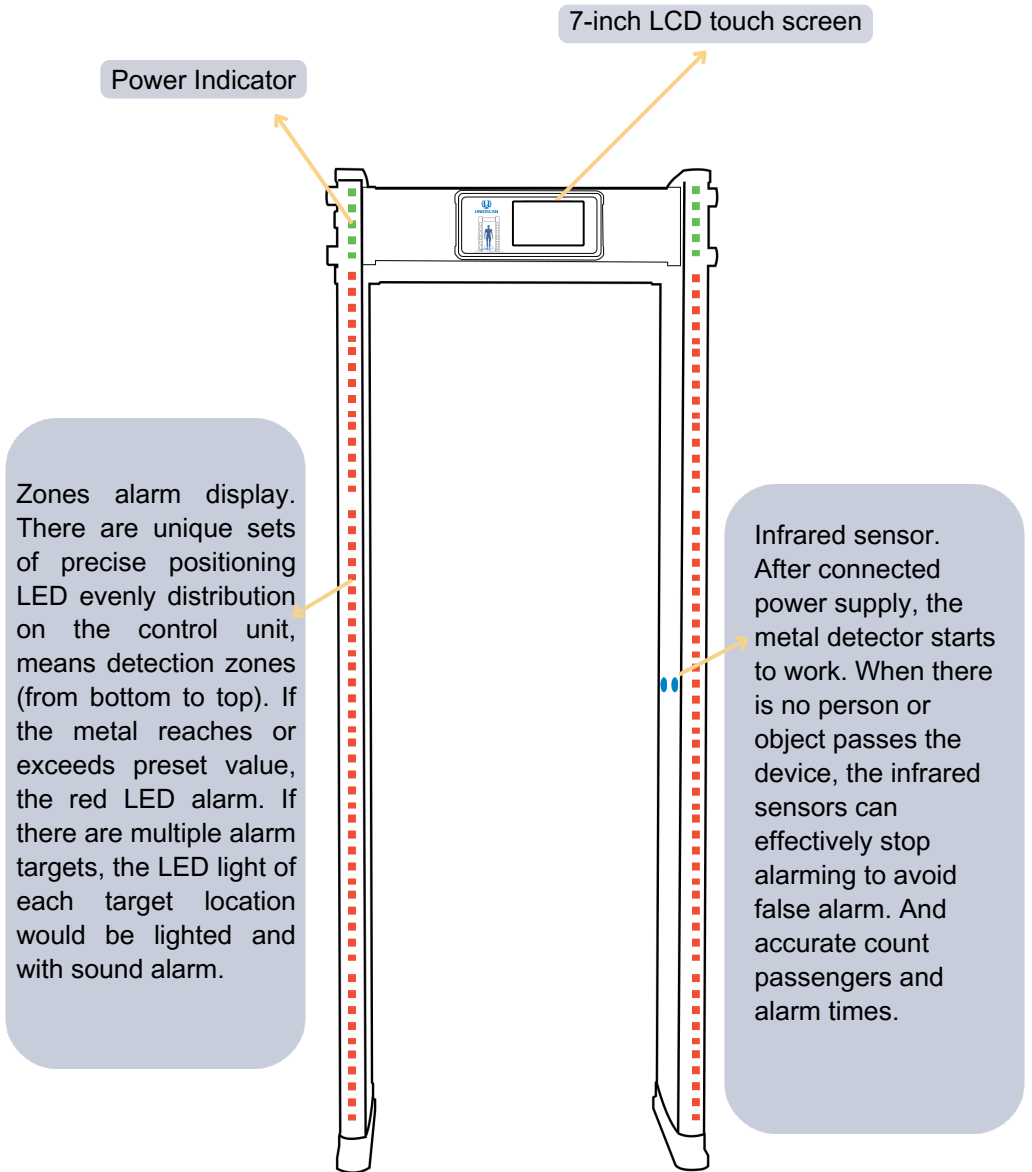
## **NON-HARMFUL TO MAGNETIC MEDIA**

The device is non-hazardous to items carried by people, including all common magnetic media, such as magnetic cards, floppy disks and magnetic tapes

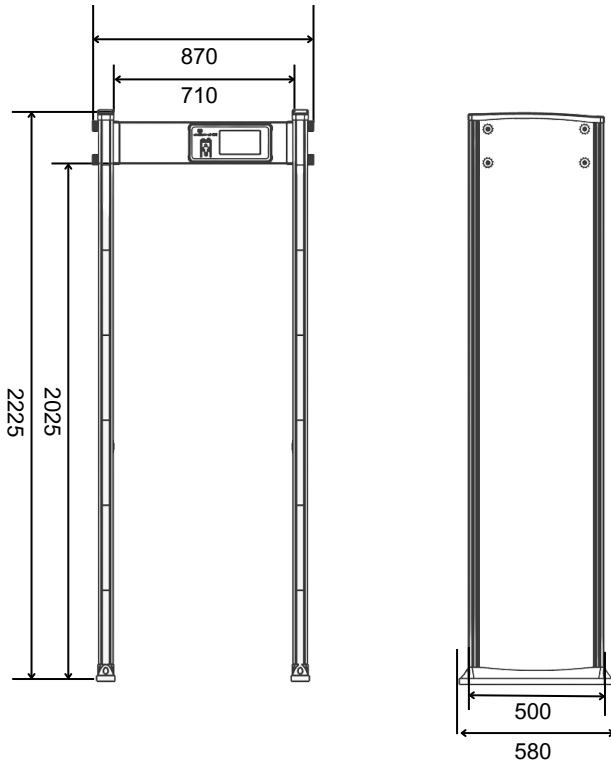
## **USAGE INFORMATION**

The electromagnetic field emitted by the device is extremely weak and not comparable to the Earth. However, it is not possible to Excluding this possibility, there may be special restrictions on the use of certain medical devices. Therefore any recommendations or requirements made by medical personnel or medical device manufacturers regarding the use of Emfs must be implemented. If, for any reason, a person passes through the detection door and expresses fear or refuses to be examined, it is recommended that other methods of examination be used. Due to the incorrect use of metal detection doors causing direct or indirect damage to people or things, our company is not responsible.

# FUNCTIONS



# **TECHNICAL PARAMETERS**



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Input voltage	100-240V, 50/60Hz
Power	<30W
Gross weight	60Kg
Net weight	52Kg
Working temperature	-25°C ~ 55°C
Sensitivity	1000 level adjustable
Alarm	Visible and audible alarm
Inner Dimensions	2025mm(H)X700mm(W)X505mm(D)
External Dimensions	2225mm(H)X820mm(W)X580mm(D)

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**ABOVE ALL THE DIMENSION ARE JUST FOR REFERENCE**

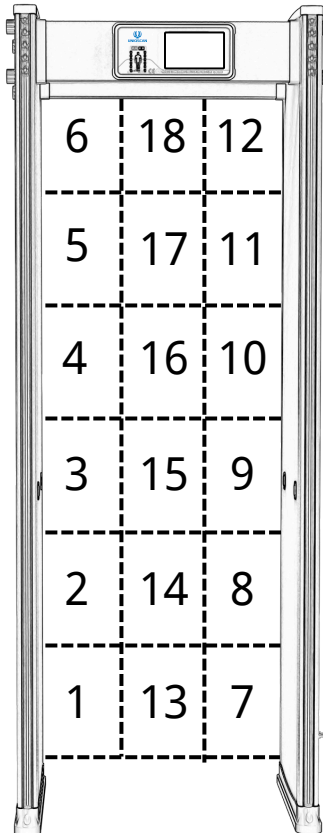
## **PACKING LIST**

Package should contain the following items:

- |                        |                       |
|------------------------|-----------------------|
| (1) L side panel 1set  | (2) R side panel 1set |
| (3) Control panel 1set | (4) User manual 1pcs  |
| (5) Power adapter 1pcs | (6) Screws 8pcs       |
| (7) Hex wrench 1pcs    |                       |

## **ZONE DISTRIBUTION MAP**

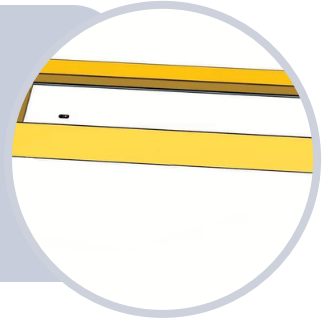
18 zones



# **INSTALLATION DIAGRAM**

## **Step 1**

Open the package and take out the product



## **Step 2**

Insert the DB interface into the corresponding hole and lock it. The power interface determines which side to connect to according to the door panel where the power supply cable is inserted.



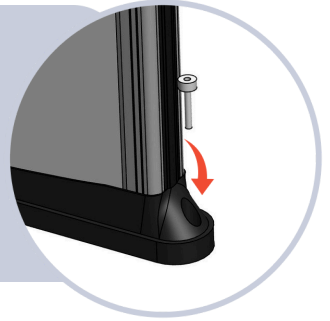
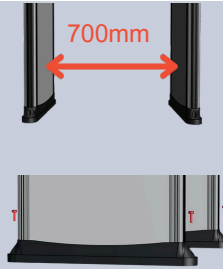
## **Step 3**

Align the eight holes in the door panel with the transom units, then lock and tighten clockwise with thumb screws



### Step 4

After placing the security door in the appropriate position and adjusting the distance between the door panels on both sides to 700mm, you can fix the foot covers on the ground.



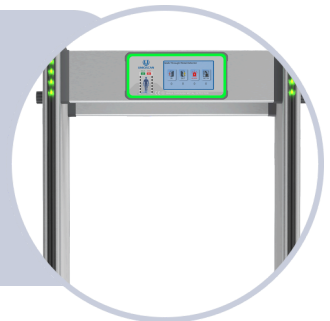
### Step 5

Insert the power cord plug into the power port on the door panel and connect it to the mains, then press the switch to turn it on



### Step 6

The installation is now complete



# OPERATION PANEL



## OPERATION

### Main interface

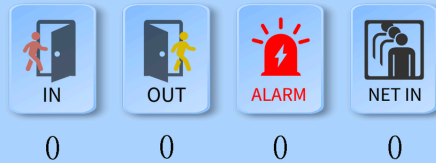
IN / OUT icon for count of the people passing through from different direction

ALARM icon for the count of alarms

NET IN icon for the rest count after IN minus OUT

Tapping the screen will take you to the following image

### Walk Through Metal Detector



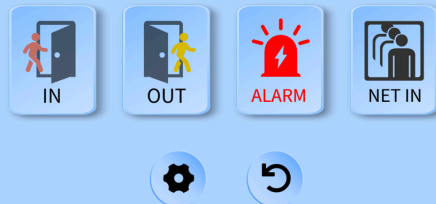
### Main interface



Click here and enter your password (the default password is 1234) to access the main menu screen

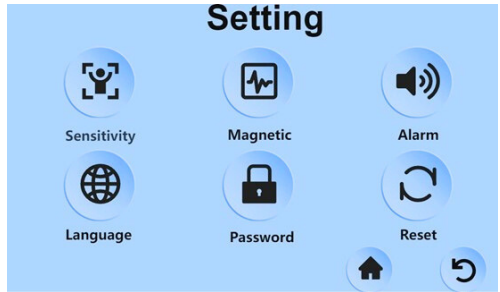


Click on this icon to return to the previous screen



## Menu screen

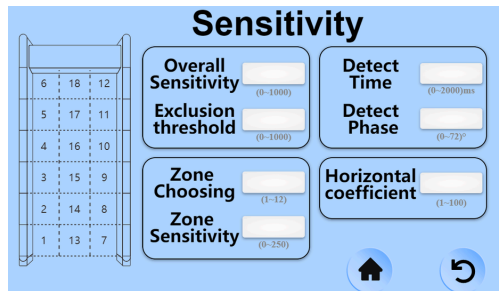
You can find the corresponding setting items in the menu interface to change them.



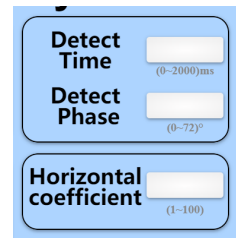
## Sensitivity 18 zones

Exclusion threshold is set to exclude metals smaller than this value, so that it does not alarm when it passes. The default value of 0 is used.

Zone Choosing is to select the zone, the following Zone Sensitivity is to adjust the corresponding sensitivity value of this zone, the larger the value corresponds to the higher sensitivity. Use the default value: 210 for 1 and 6, 7 and 12; 230 for all other zones



This part is the factory debugging parameters, customers do not need to adjust, use the default parameters can be. horizontal coefficient 40; detection time using the default value of 800, detection phase using the default value of 0 °





## Magnetic

The first line is for adjusting the frequency. When multiple devices need to be used together, you can select different frequencies here to ensure that multiple devices do not interfere with each other. The second line is the factory debugging parameters, which are not recommended to be changed.

### Magnetic

Working Frequency Choosing   
(1-5)

Emission magnetic strength   
(45-65)

## Alarm

This shows the sound and light parameters of the alarm after detecting metal, the parameter of LED Brightness is the brightness of the column light after the alarm, Alarm Time is the duration of the sound from the horn after the alarm, which can be changed from 0 to 2 seconds.



### Alarm

LED Brightness:   
(0-100)

Alarm Time:   
(0-2000)ms

Alarm Volume:   
(0-100)

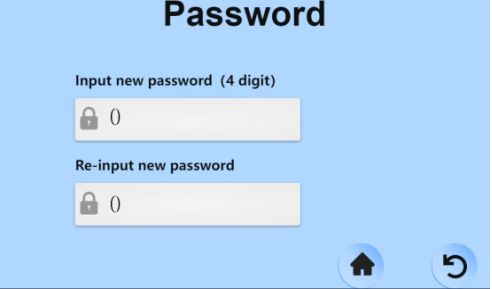
Alarm Tune:   
(0-100)

the parameter of Alarm Volume is the volume size of the horn after the alarm is prohibited to change, and this function will be added later. the parameter of Alarm Tune is the tone of the sound after the alarm is prohibited to change, and this function will be added later. The parameter of Alarm Volume is the volume level of the horn after the alarm, which can be changed from 0 to 2 seconds.

## Password

This is to change the password, only support 4-digit numeric password. First change the new password to enter this interface, enter the new password in the first line above, and then repeat the password in the second line.



The screenshot shows a blue interface titled "Password". It contains two input fields, each with a lock icon and the number "0". The first field is labeled "Input new password (4 digit)" and the second is labeled "Re-input new password". At the bottom right, there are two circular icons: a home icon and a refresh icon.

## Reset

This shows the restoration of the default factory settings.



The screenshot shows a blue interface titled "Reset". It contains the text "Reset to Factory settings?" centered above two buttons: "Confirm" and "Cancel". At the bottom right, there are two circular icons: a home icon and a refresh icon.

## **DETECTION ADJUSTMENT**

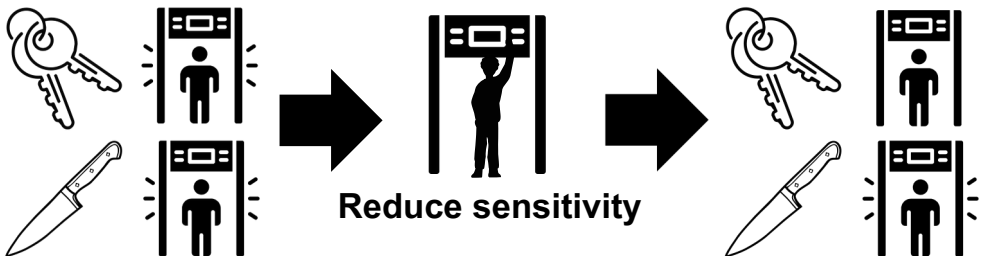
1. The device must be in a stable status to achieve the best detection effect (refer to the "Installation Environment"), to check whether the device in a stable status, the steps as follows:

- a. The device is not shaking after power ON for 1 minute.
- b. The device would not alarm when the tester did not carry any metal items walk through the detector.



2. Excluding small portable metal objects such as rings, key, belt buckle, shoes and so on, according to the following steps to adjust:

- Choose a small metal as the sample, such as keys.
- Increasing the sensitivity, so that when the tester carry the sample and pass through the device, the detector would alarms.
- Decreasing the sensitivity a little, carry the sample pass through the device again, if it still alarms, once again to reduce the sensitivity, until the device not alarm when the sample passed through.



Note: If you want to decrease the sensitivity in a certain zone, only have to adjust the sensitivity of relative zone. After finished the above adjustment, the metal which smaller than the sample will not alarm, but the metal objects bigger than the sample can be detected accurately.

### 3. Traffic regulations:

- Draw a waiting line for 50cm away from the device, so that the passengers can line up and pass one by one.
- Before the passengers walk through the device, they should remove all the carried metal objects (such as keys, mobile phone, watch, coins, etc.), place on the side of security chute or a table, and pick it up after security checking.
- Passengers should line up one by one to pass the device, do not crowd, walk through with normal speed, can not intentionally rush or postponed, and do not crash the door panel.
- If the devices alarms when someone pass through, that means there are some metal objects were hidden in his body. The security guard can use a hand-held metal detector accurately detect the hidden position according to the alarm zones.



# **BRIEF MAINTENANCE**

## 1. Infrared sensor can not count:

- Check the probe cables whether well connected with the door panels.
- Check whether there is some infrared interference beside the device, such as: infrared surveillance system, infrared remote control (when press button), outdoor sunlight, etc.
- If not above problems, please replace the Infrared sensor directly.



## 2. False alarm

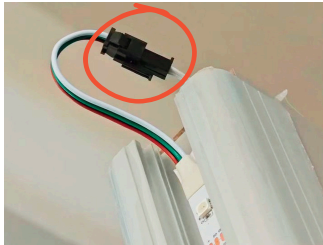
After installation, if the device gives false alarms frequently.

- Firstly, check the installation environment. Make sure there is no movable or stationary large metal objects around in 1.5 meters. Otherwise, try to make the device away from the large metal objects. In addition, make sure the installation location with no wind cause shaking.
- Secondly, if the false alarm is not caused by the environment, please reduce the sensitivity of all zones.
- Change the frequency
- Change the installation location

If above 4 steps are useless, please change a new mainboard to see whether it is working. If works well, then maybe PCB board problem. If still same, it will be the interference problem. We recommend moving the detectors to another place or changing the installation directions.

### 3. The alarm light does not light up

- Remove the top cover of the device and check whether the light bar connection socket on the top of the device is disconnected. Check whether the
- cable inside the device and the motherboard is stably connected to the socket on the door panel, and whether the pins are broken or bent.



### 4. The device does not work when connected to power

- Check whether the power adapter indicator light is on. If not, use a voltmeter to check the input voltage and output voltage of the power adapter. If there is input but no output, then the power adapter is damaged.



# WARRANTY CARD

1. Please keep this card with reasonableness, and show it when maintaining it.
2. This card will be invalid if without the signature or stamp of the designated dealer.

Model Number	
ID	
Date Acquisition	
User Name	
Address	
User's Phone Number	
User's Fax Number	

Date of Maintenance Record of Maintenance Maintainer
