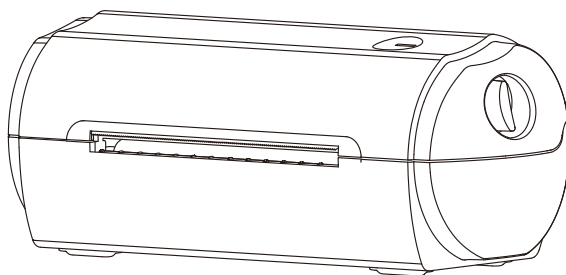


# **RONGTA** User Manual

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## **RP422 LABEL PRINTER**



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# I. Product Introduction

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Thank you for purchasing the label printer produced by our company.

This label printer provides you with safe, reliable and efficient printing quality at a reasonable economic price. At the same time, Printer is widely used in supermarkets, Catering industry, clothing industry, warehousing industry, etc. due to its super functions and easy operation.

## 1.1 Main Features

- High printing quality
- Low noise
- The attractive appearance
- Reasonable structure, simple use and maintenance
- Intelligent detection and positioning
- Auto feed and retreat paper
- Simple operation
- Label off intelligent handling function
- Fast printing, saving time
- Superior heat dissipation, can handle heavy printing workload



## II. Safety Instructions

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**Before operating and using the printer, please carefully read the following items and strictly observe the use rules.**

### 2.1 Safety warning

-  The print head will become very hot during printing, please do not touch the printhead and peripheral parts during printing and printing just finished.
-  Please do not touch the printhead and connectors, in case that static damages the printer head.

### 2.2 Instructions

 **Warnings: Violating following instructions may cause serious injury or death.**

- 1) Do not plug several products in one porous power outlet.
  - This may cause over-heat and a fire
  - If the plug is wet or dirty, dry or wipe it before using.
  - If the plug does not fit perfectly to outlet, do not plug in.
  - Be sure to use only standardized porous power outlet
- 2) You must use the supplied adapter.
  - It is dangerous to use other adapters.
- 3) Do not pull the cable by pulling.
  - This may damage the cable or cause a fire.
- 4) Do not plug in or unplug with your wet hands.
  - You may be electrocuted.
- 5) Do not bend the cable by force or leave it under any heavy object.
  - A damaged cable may cause a fire.

 **Note: Violating following instructions may cause slight damage of the appliance.**

- 1) If you observe a strange smoke, odour or noise from the printer, unplug it before taking following measures.
  - Switch off the printer and unplug the set from the mains.
  - After the disappearance of the smoke, call your dealer to repair it.
- 2) Install the printer on the stable surface.
  - If the printer falls down, it may be broken and you may hurt yourself.
- 3) Use the approved accessories only and do not try to disassemble, repair or remodel it by yourself.
  - Call your dealer when you need these services.
  - Do not touch the blade of auto cutter.

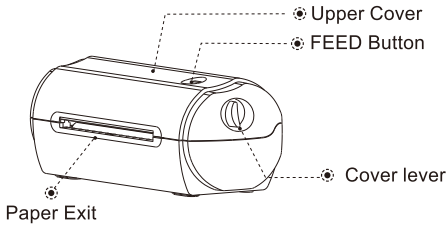
- 4) Do not let water or other foreign objects drop into the printer.
  - If this happened, switch off and unplug the printer before calling your dealer.
- 5) Do not use the printer when it is out of order. This can cause a fire or an electrocution.
  - Switch off and unplug the printer before calling your dealer.
- 6) Other considerations:
  - Place the printer on a solid and even base so that it cannot fall.
  - Leave enough space around printer for operation and maintenance.
  - Keep all liquids away from the printer.
  - Do not expose the printer to high temperatures, direct sunlight or dust.
  - Ensure the printer is connected to a socket with the correct mains voltage.
  - Switch off the printer POWER supply when it's not in use for a long time.
  - To ensure the printing quality and reliability, suggest use the same quality or recommend paper supplier.
  - Pls. switch off the POWER supply when connect/disconnect all the ports or it will cause damage to the printer control circuit.
  - Never carry out maintenance or repair work yourself. Always contact a qualified service Technician.
  - Keep this User Manual in a place which is easily accessible at all times.

## 2.3 Other Precautions

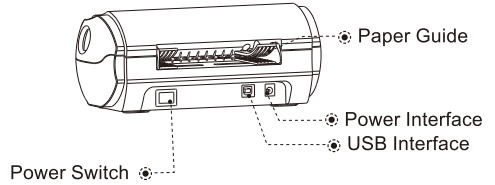
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# III. Appearance and Components

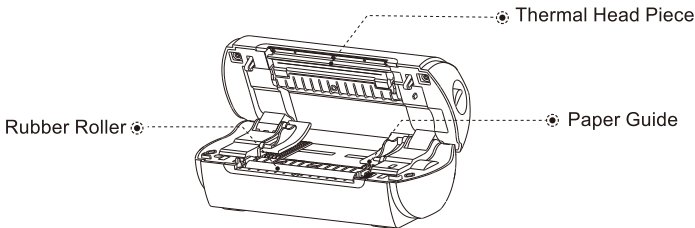
## Front View



## Rear View



## Inside View




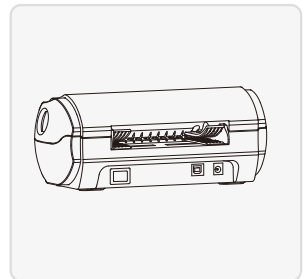
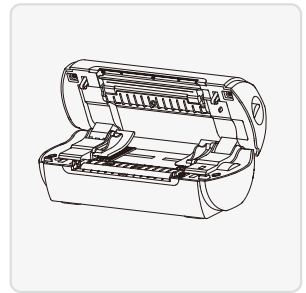
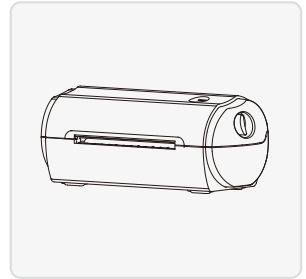
## Application Field


- Cashier system of supermarkets
- Cashier system of Catering industry,
- Cashier system of clothing industry
- Cashier system of warehousing industry


# IV. Technical Parameters

## 4.1 Printing Parameters

Model	RP422
Printing method	Thermal line printer
Paper loading method	Easy paper loading/auto paper feeding
Printing speed	127mm/s
Printing paper width	108mm
Effective resolution	203 dpi /300 dpi
Paper type	Continuous paper, label paper, and black label paper, folded paper
Thickness of printing paper	0.06-0.18mm
Effective printing width	Min 38mm Max 108mm
Character size	ASCII Font A: 12x24 ASCII Font B: 9x17 Chinese character 24x24
Interface type	USB
<b>Print character</b>	
Type of bar code	One-dimensional code: Code 39, 39C, I25, Code 93, ITF25, EAN128, Code 128, Codabar, EAN-8, EAN8+2, EAN8+5, EAN-13, EAN13+2, EAN13+5, UPC-A, UPCA+2, UPCA+5, UPC-E, UPCE+2, UPCE+5 MSIC, ITF14, EAN14, CODE11, POST QR code: PDF417(optional)
Extended character table	CP437, CP850, CP852, CP860, CP863, CP865, CP866 WPC1250, WPC1251, WPC1252, WPC1253, WPC1254
<b>Power supply</b>	
Power adapter	DC 24V  2.5A
<b>Environmental requirements</b>	
Working environment	Operating temperature: 0~ 45°C, Operating humidity: 20~90%
Storage environment	Storage temperature:-10 ~ 60°C, Storage humidity: 10~90%
<b>Environmental conditions</b>	
Drive	WINXP/WIN7/WIN8/WIN10/Mac/Linux
Print command	ESC/TSPL/CPCL(optional)/ZPL(optional)
Character printing	It supports double width and double height printing of AN K characters, custom characters and Chinese characters; adjusts dot patterns of character spacing for printing;



 Remark: The interface is optional or customized, and the specific interface is subject to the actual object.

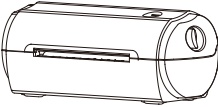
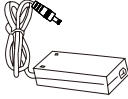



 The pictures are for reference only, please subject to practicality

## V. Installation and Operation of Printer

### 5.1 Printer Unpacking

#### Check the parts:

Before use, make sure the accessories are included in the package(the following picture is an example). If any thing is missing, contact the supplier or manufacturer. The specific accessories may not be included depending on the printer model.

 <p>Printer</p>	 <p>Power adapter</p>	 <p>Power cord</p>
 <p>USB cable</p>	 <p>快速 安装指南</p> <p>Quick Installation Guide</p>	

☺ The pictures are for reference only, please subject to practicality.

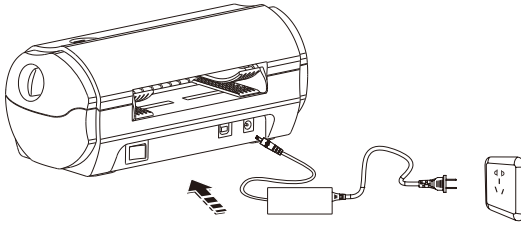


## 5.2 Connecting the Printer

### ❑ Connect the power line

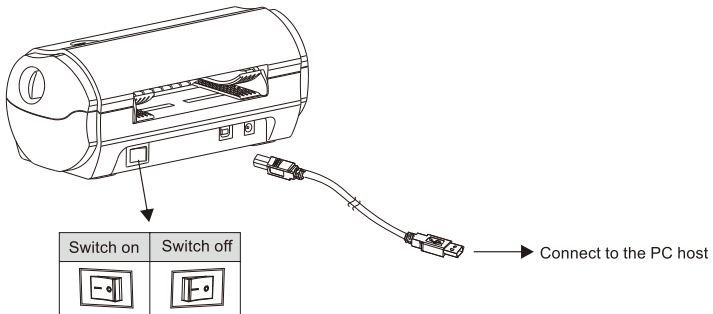
- (1) Confirm that the power switch is in off (0) state.
- (2) Connect the power adapter to the printer.
- (3) Connect the power line to the power adapter.
- (4) Connect the other end of the power line to a nearby socket.

**Use the special power adapter for the printer.  
The connection diagram is as follows:**



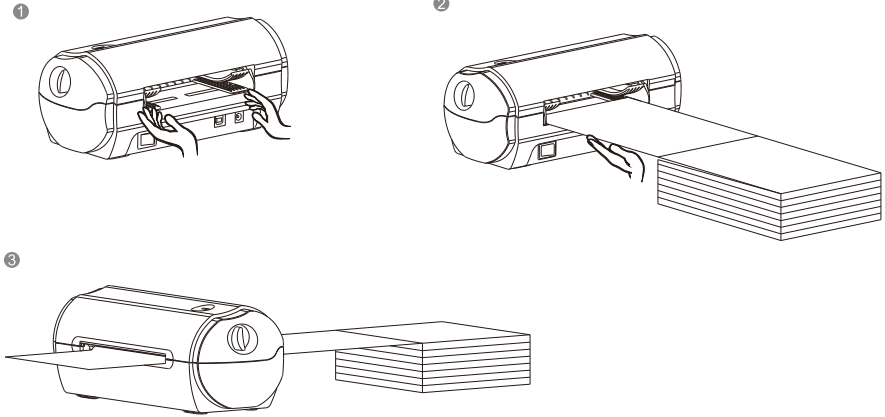
### ❑ Connect the USB cable

- (1) Connect the USB cable to the printer.
- (2) Connect the USB cable to the PC host.
- (3) Turn the power switch to on (1) state.



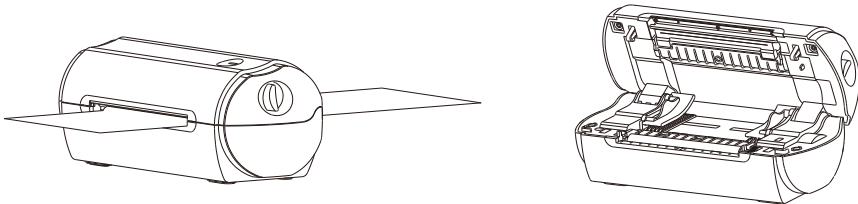
### 5.3 Folded Paper Loading

- (1) Facing the back of the machine, hold the paper guide with both hands, and adjust the distance between the left and right guides according to the folded paper size.
- (2) Insert the folded paper into the paper guide
- (3) Confirm that the printer has detected paper feeding, automatically feeds paper and delivers paper normally



### 5.4 Handling of Paper Jam

- (1) Move the top cover lever forward with both hands and lift the top cover.
- (2) Remove the jammed paper from the feeding channel, and check whether the print head has adhesive or carbon deposition. If yes, clean it with an alcohol cloth, remove the wrinkled paper and replace it with new paper.




## 5.5 Bluetooth Pairing and Printing (only valid for printers with Bluetooth)

Bluetooth printer needs to be paired with the main device driving the printer before working, and the pairing process is initiated by the main device.

**The general pairing method is as follows:**

- (1) Turn on the printer.
- (2) The main device searches for external Bluetooth device.
- (3) If there are multiple external Bluetooth device, select the printer corresponding to BDA address. (see self-test page for details.)
- (4) Enter the initial password "0000" or "1234".
- (5) Complete the pairing.

Please refer to the Bluetooth function description of the main device for the specific pairing method. When pairing, the label printer with Bluetooth interface must be on.

 **Note: During pairing, please do not turn on multiple printers at the same time, otherwise you may not be able to judge which printer was successfully paired.**

After successful pairing, other host computers can still be paired with the printer, and each printer can be paired with up to 8 host computers. If more upper computers are paired with printers, the host computer paired with the printer at the earliest will be automatically removed from the pairing list by the printer. At this time, if this host computer needs to drive the printer for printing, it needs to be paired again. (For multi-connected Bluetooth only.)

## 5.6 Use Bluetooth Interface for Printing (only valid for the printers with Bluetooth)

For host computers with virtual Bluetooth serial ports (such as mobile phones using SMARTPHONE, POCKET PC, PALM, notebook computer, etc.), after successful pairing, printing data can be sent to the printer via the virtual Bluetooth serial port for printing. If the host computer does not have a virtual Bluetooth serial port, when you want to drive the printer for printing, please consult the supplier of the host computer.

## VI. The Switch, Key and Indicator Light of Printer

### 6.1 Precautions for power switch/use

- (1) Turn the printer power switch to on (I) state, and the printer will be turned on.
- (2) Turn the printer power switch to on (O) state, and the printer will be turned off.
- (3) Turn off the printer with power switch. If you pull the power plug directly, it is easy to damage the internal circuit of the printer and cause print data loss.
- (4) After power-off, wait for a while (not more than 5 seconds) before turning on the printer again □ otherwise it is likely to cause a failure.
- (5) Please use the original battery of this machine, otherwise it may lead low print quality or damage to the printer.



#### **Attention:**

**Make sure the power supply is connected before turning on the printer.**

### 6.2 Keys and Indicators

#### **Function description of buttons**

Scenarios	Button operation	Corresponding functions
Power Off	Press and hold + turn on the printer	Print self-test page
Standby	Press and hold 3S	Enter label specification learning mode
Open the cover	Press and hold 10 S	Restore factory settings
Standby	Press	Automatically feed one blank label sheet
Continuous printing process	Press	Pause printing
Pause printing	Press	Continue printing

#### **Indicator description**

Indicator status	Status description	
Indicator always lights up	Normal standby	
Indicator flashes	Buzzer alarm	
Buzzer alarm (common)	2 Sounds	Printer mechanism error
	3 Sounds	Paper shortage error
	5 Sounds	Overheating error
	6 Sounds	Cover opening error
	7 Sounds	Seam label error

## VII. Printer Test

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### 7.1 Print Self-Test Page

When the printer is initially installed or there are any problems with the printer, you can run self-test program to confirm the following status: firmware version, printer parameter setting status, print quality, and related setting information of external devices, etc. After confirming that there is no problem with the printer after the self-test, please check other devices or software. This function runs independently of other devices or software.


#### **The self-test method is as follows:**

- (1) Confirm that the printer is connected to power supply and the paper roll is loaded correctly.
- (2) Confirm that the printer is turned off and the top cover is closed in place.
- (3) Press and hold the FEED button, then press the POWER button to turn on the printer; release the button after the printer is turned on.

### 7.2 Print with the Window Driver

- (1) To install Windows driver, please refer to "Driver Installation Instruction".
- (2) Set the "port" of the Windows driver as the appropriate interface to use.  
Print the test page with the "Print test page" function of Windows driver.


## 7.3 Label Learning

 **Note: In the following cases, the user can perform label positioning learning so that the printer can better position the label:**

- Install and use the printer for the first time.
- First use of printer after sensor cleaning.
- Reuse the printer after it is not used for a long time.
- Replace with a new type of paper roll.
- The printer cannot recognize the mark effectively during printing.

When the printer is ready, press and hold the FEED button for 3s until the standby status indicator flashes twice, release the button, and the printer will start learning and feed paper. If the printer learns under continuous paper mode, the learning is invalid.

Users can also complete the learning through the printer tool software. (refer to "Instruction for Printer Setting Tool".)

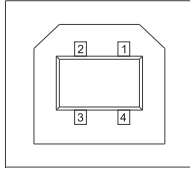
 **Note: After learning, you can re-open the top cover and place the blank label paper just fed during learning back for printing to avoid paper waste.**

# VIII. USB Interface

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The printer's USB interface socket is standard USB type-B



PIN	SIGNAL NAME
1	VBUS
2	D-
3	D+
4	GND

## IX. Cleaning the Printer

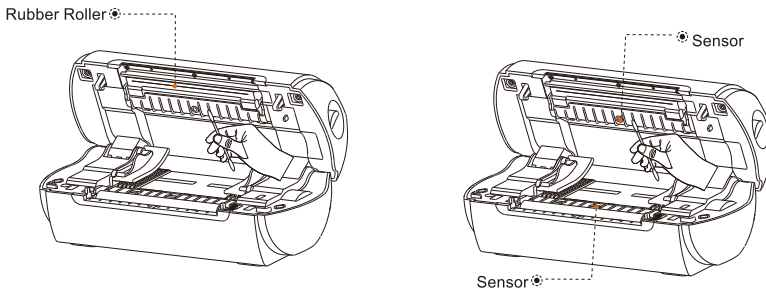
### 9.1 Cleaning the Printer Head

**Clean the print head when one of the following conditions occurs to the printer:**

- (1) Printing is not clear.
- (2) A vertical column of the printed page is not clear.
- (3) The paper feeding noise is high.

**The print head cleaning steps are as follows:**

- (1) Turn off the power supply of the printer, , open the upper cover and remove the paper if exists.
- (2) If printing has just been completed, wait for the print head to cool completely.
- (3) Clean the printer head with a soft cotton moistened with ethyl alcohol.
- (4) After waiting for absolute ethyl alcohol to volatilize completely, close the upper cover and try printing again.



### 9.2 Cleaning the Sensor

**Clean the paper shortage sensor when one of the following conditions occurs to the printer:**

- (1) In the printing process, the printer occasionally stops printing and alarms for paper shortage.
- (2) No alarm for paper shortage.

**The paper shortage sensor cleaning steps are as follows:**

- (1) Turn off the power supply of the printer, open the upper cover, and remove the paper if there is any.
- (2) Wipe off the dust and stain on the sensor surface with soft cotton cloth (which should be dried) dipped in absolute ethyl alcohol.
- (3) After waiting for absolute ethyl alcohol to volatilize completely, close the upper cover and try to start the machine again.



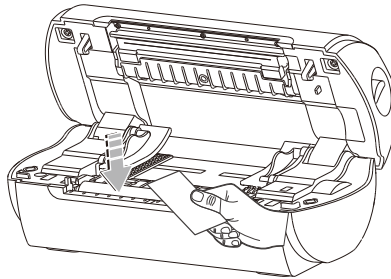
### 9.3 Cleaning the Printing Rubber Roller

**When one of the following conditions occurs to the printer, the printing rubber roller should be cleaned:**

- (1) Printing is not clear.
- (2) A vertical column of the printed page is not clear.
- (3) The paper feeding noise is high.

**The printing Rubber Rollers cleaning steps are as follows:**

- (1) Turn off the power of the printer and open the upper cover.
- (2) Use a soft cotton cloth (which should be dried) dipped in a neutral detergent to wipe off dust and stains on the surface of the printing rubber roller.
- (3) Close the upper cover after the cleaning agent is completely volatilized.



#### **⚠ Attention:**

- (1) The power supply must be turned off during the daily maintenance of the printer.
- (2) Do not touch the surface of the print head with hands and metal objects, and do not scratch the surface of the print head, printing rubber roller and sensor with tweezers and other tools.
- (3) The organic solvents such as gasoline and acetone shall not be used.
- (4) Wait until absolute ethyl alcohol is completely volatilized, then turn on the power supply to continue printing.

## X. Troubleshooting

The table below shows common problems and solutions for operators.

If you have followed the simple troubleshooting methods but the printer is still not functioning properly, please contact the customer service department of your dealer for assistance.

Fault Phenomenon	Cause	Solution
POWER indicator is off	<ul style="list-style-type: none"> <li>a. The AC plug and the power supply plug are not properly connected to the printer socket.</li> <li>b. The printer power switch is not on.</li> </ul>	<ul style="list-style-type: none"> <li>a. Check the power connection and confirm that the AC plug and the power supply plug are properly connected to the printer socket.</li> <li>b. Turn on the printer.</li> </ul>
Unable to print	<ul style="list-style-type: none"> <li>a. The communication cable is not properly connected to the printer and PC host.</li> <li>b. Communication interface setting error.</li> <li>c. Print status error.</li> </ul>	<ul style="list-style-type: none"> <li>a. Reconnect the communication cable.</li> </ul>
Incomplete print content	<ul style="list-style-type: none"> <li>a. The paper is not centered.</li> <li>a. Label size setting is incorrect.</li> </ul>	<ul style="list-style-type: none"> <li>a. Adjust the paper position.</li> <li>b. Set the correct label size.</li> </ul>
Incorrect positioning	<ul style="list-style-type: none"> <li>a. Label learning is not performed.</li> <li>b. Seam label detection photocoupler is offset.</li> <li>c. Wrong mode selected.</li> </ul>	<ul style="list-style-type: none"> <li>a. Label learning is performed.</li> <li>b. Open the cover to confirm whether the seam label detection component is offset. For black label paper, move the seam label detection component according to the black label position so that the detection photocoupler can detect the black label. Label paper/continuous paper: The detection photocoupler must be in the paper range.</li> <li>c. Use the setting tool to open the printer information and confirm whether the paper type is the same as the paper loaded in the printer, which can be changed by using the setting tool.</li> </ul>
Poor print result	<ul style="list-style-type: none"> <li>a. Paper loading error.</li> <li>b. Print density/speed setting error.</li> <li>c. Print head/rubber roller has dust or adhesive accumulation.</li> <li>d. The print head is damaged.</li> </ul>	<ul style="list-style-type: none"> <li>a. Reload the paper.</li> <li>b. Readjust the print density/speed of printer by using the setting tool or the software. Printing density can be coarsely tuned with the setting tool and finely tuned with the driver.</li> <li>c. Clean the print head/rubber roller. (refer to 8.1 "Cleaning Print Head"/8.2 "Cleaning Sensor"/8.3 "Cleaning Printing Rubber Roller" of the Manual.)</li> <li>d. Use the setting tool to detect bad point of head piece. If the print head is damaged, please contact the customer service department of your dealer for repairs.</li> </ul>

## XI . FCC WARNING

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

**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. used for a long time, remove the battery and store it separately.

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.

### **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



**Rongta Technology (Xiamen) Group Co., Ltd.**

**ADD: No.88, Tonghui South Road, Tongan, Xiamen, China.**

**WEB: [www.rongtatech.com](http://www.rongtatech.com)**

**TEL: 0086-592-5666129    FAX: 0086-592-5659169**

