



# INDUSTRIAL PRINTER

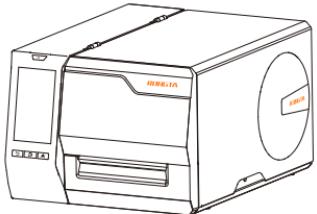
## RI460 USER MANUAL



Please read this manual carefully before using the product,  
including warranty card, product certificate, please keep it properly



## Unpacking list



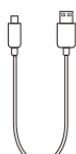
Printer x1



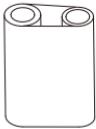
Power cord x1



Serial cable x1



USB cable x1

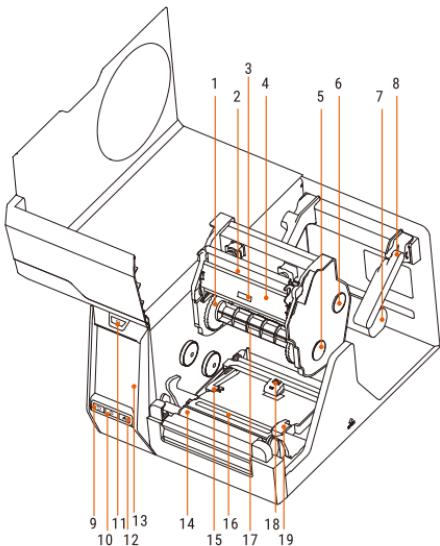


Carbon tape +  
carbon tape empty core x1



User manual

## Appearance and structure

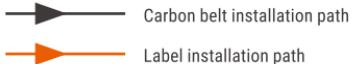


- 1 Carbon tape limit plate
- 2 Print head
- 3 Carbon strip optocoupler
- 4 Print head module
- 5 Carbon tape expansion release button
- 6 Carbon belt recovery release button
- 7 Paper reel
- 8 Paper roll limit block
- 9 Return button
- 10 Pause/Continue button
- 11 Power button
- 12 Move the paper button
- 13 LCD touch screen
- 14 Print the roller
- 15 Paper adjusting block
- 16 Reflective paper probe optocoupler
- 17 Carbon belt adapter tube
- 18 Penetrating paper detection optocoupler
- 19 Open the cover clip

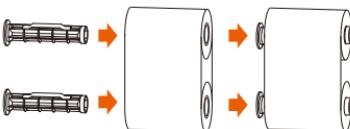
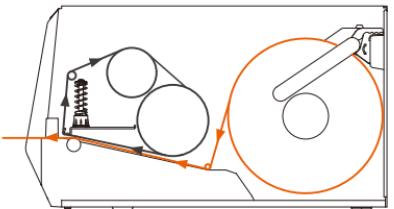
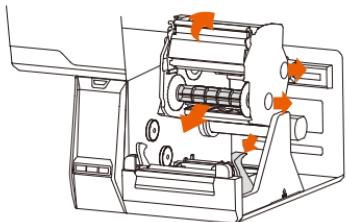
## Printer installation and use procedure

Carbon belt ---> Installation paper roll ---> Connect the power cord and USB line ---> Power on ---> Paper calibrate ---> Print test page ---> Install the driver ---> Print barcode label print or use the client software to print system

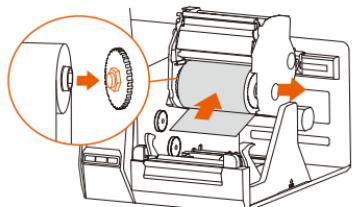
### Consumable installation path



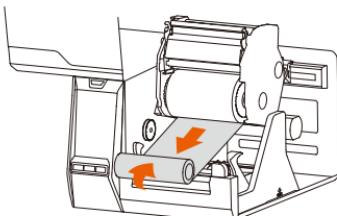
### Mounting carbon tape



**01/** First open the flip cover on the printer, then pull out the carbon tape recovery release button to remove the carbon tape adapter tube, then press the cover opening clamp, loosen and lift the printing module, pull out the carbon tape to expand the release button to remove the carbon tape adapter tube.

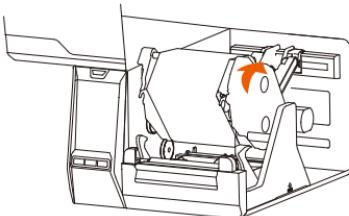
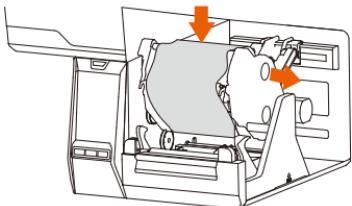


**02/** Disassemble the carbon strip and insert the two carbon strip adapter tubes into the carbon strip and the carbon strip hollow tube respectively, making sure that the carbon strip coil is in the middle position on the carbon strip adapter tube.



**03/** Pull up the release button of the carbon belt expansion end outwards, and clamp the carbon belt equipped with the carbon belt adapter tube into the carbon belt expansion end.

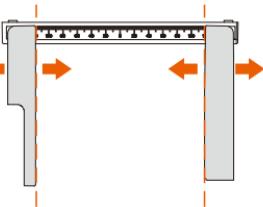
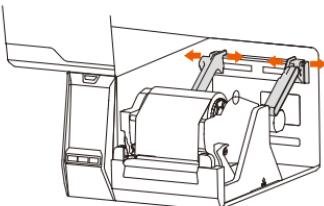
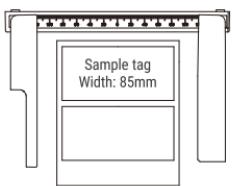
**04/** Pull the carbon lead out and wrap it around the carbon tape adapter tube with the empty core in the direction indicated by the arrow in the figure (the side with the ink always faces down). Repeat this step several times until the carbon tape is fixed.



**05/** Put down the printing module, pull up the carbon strip release button at the carbon strip recovery end outwards, pass the empty coil core of the rolled carbon strip around the printing module, and clamp into the carbon strip recovery end. Ensure that the hexagonal shapes of the left and right ends of the carbon strip adapter tube are stuck into the limit plates at both ends, and stick in place to ensure stable rotation.

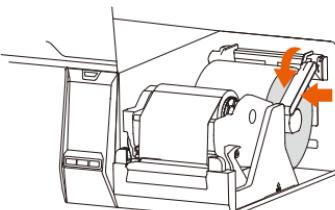
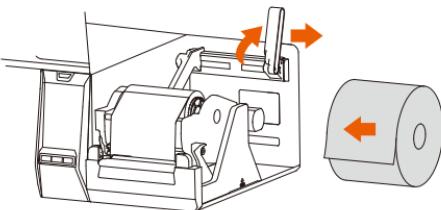
**06/** Turn the carbon belt recovery stop plate in the clockwise direction until the carbon belt is taut and wrinkle-free and the carbon belt installation is complete.

## Mounting roll



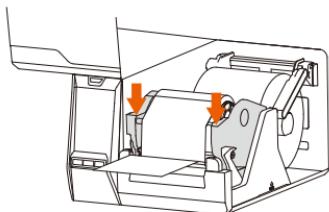
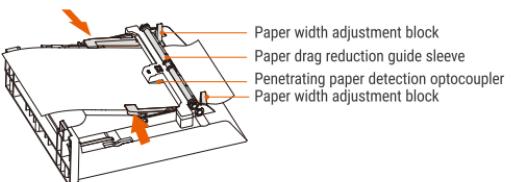
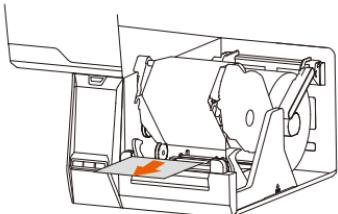
**01/** Place the printer paper on the paper reel and center the scale in the back cover.

**02/** Move the left and right paper roll stoppers inward or outward at the same time to the corresponding size scale line.



**03/** Move the right roll stop block to the far right, then lift the right roll stop block up, place the roll over the roll, and properly lean against the left roll stop block.

**04/** Rotate the right stop block down, move the paper roll to center, move the left and right stop block against the outside of the paper roll.

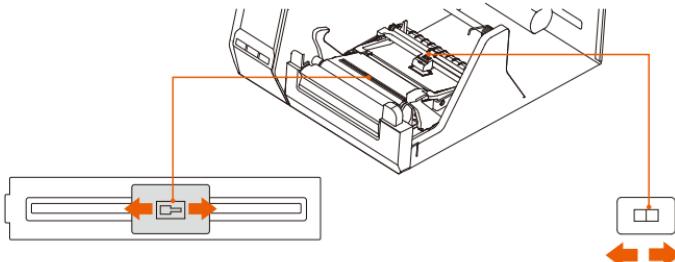


**05** Insert the labels under the paper resistance reducing guide sleeve and the penetrating paper detection optocoupler according to the label installation path, and pull out the labels. Move the two paper width adjustment blocks so that they lean against the label, but do not deform the label.

**06** Press the printing module with both hands at the same time, so that the cover clamp locks the printing module, at this time you can hear the sound of "click", the paper roll installation is complete. Close the printer flap.

## Adjust the paper probe optocoupler

The printer is equipped with two sets of paper detection optocouplings (i.e. reflective paper detection optocouplings and penetrating paper detection optocouplings), and the adjustment method is as follows:



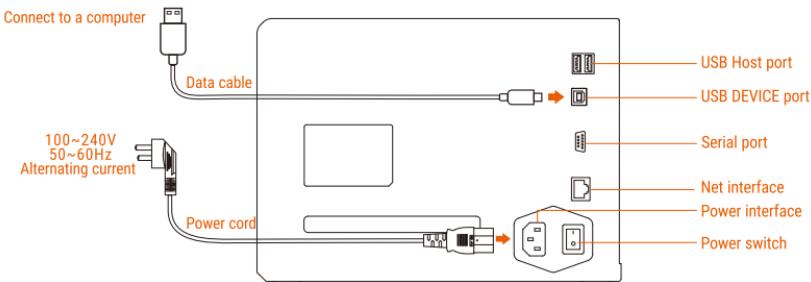
Reflective paper probe optocoupler

After opening the paper detection optocoupler cover, adjust the paper detection optocoupler to the appropriate position by moving the paper detection optocoupler slider.

Penetrating paper detection optocoupler

Select center or right detection by flipping the switch above the paper detection optocoupler.

## Connect the power cable and USB cable



Note: The figure above shows the USB interface connection, please select the correct interface according to the data cable of the product to connect the computer.

## Power on

The power switch is used to control the printer power supply. The power switch of the printer is a boat switch located on the back of the printer.

- When the "-" of the switch is pressed, the printer is in the power state; When the "o" of the switch is pressed, power off the printer.
- When powered on, the printer is turned on.
- In the power-on state, hold down the [ power button ] on the upper part of the LCD touch screen for 5s, then the printer will turn off, the screen will turn off, and the printer will stop running.
- When the printer is powered on, press the [ power button ] at the top of the LCD touch screen for 1s to turn on the printer and the screen.

## Paper calibrate

Paper calibration with power on, printer turned on and roll installed correctly:

1. Click the screen --> [ LABEL ] --> [ Paper calibration ] to perform paper calibration.
2. Long press the [ Paper button ] for about 4s, release it after a "beep" sound, and perform paper calibration.



*Note: In the following cases, the user can perform paper calibration so that the printer can better position the paper.*

- Install and use the printer for the first time;
- The first time to use the printer after cleaning the sensor;
- Re-use the printer after not being used for a long time;
- Replace the paper roll with a new type;
- During the printing process, the printer cannot effectively identify the mark.

## Print test page

When the power is on and the printer has been turned on and the paper roll has been installed, click the screen ---> [ LABEL ] ---> [ Print test page ] to print the self-test page.

## For driver and software download, please refer to the following guidelines to obtain or access

1. Go to "www.rongtatech.com" click the title bar "DOWNLOAD" and select Driver Download\ Tool Download\User Manual\Product Video\FAQ
2. Scan the QR code, select "DOWNLOAD" in the upper left corner, and select Driver Download\ Tool Download\User Manual\ Product Video\ and FAQ



## Indicator description

*The indicator light is located around the power button:*

1. Power status: white steady on;
2. Standby state: blinking white;
3. Alarm warning: red flashing at the same time display text prompt. (Head too warm, lack of paper, lack of carbon tape, movement open cover, etc.)

## Description of the buzzer sound

There is a buzzer for button operation or touch screen selection.

Turn off the buzzer: Click the screen to go to [ CONFIG ] ---> [ ADVANCED ] ---> [ Preference ] ---> [ Beep ]

# buttons and touch screen operation instructions

## ① Power switch

Press [ Power button ] for 5s, then the printer turns off, the screen turns off, and the printer stops running.

Press [ Power button ] for 1s to turn on the printer and the screen.

## ② Backspace button

When the printer is powered on and powered on, press [ Backspace button ] once every time, the screen returns to the upper interface of the current interface until it returns to the home page of the screen. Long press [ Backspace button ] to return to the home page.

## ③ Pause/Continue button

1. During the printing process, press [ Pause button/Continue button ] or click [ Pause ] on the screen in Figure 1 below to pause the current printing task. Select Cancel to cancel the current print task.
2. During the pause process, select [ Cancel ] to cancel the current printing task. Select [ Continue ] or press [ Pause/Continue ] to continue printing until the printing is complete.



Figure 1



Figure 2

## Feed Button

When the printer is powered on and the printing paper has been installed, press the [ Paper button ], and the printer will automatically move one label (if the label is too small and several labels are moved, several labels will be automatically returned when printing). Long press the [ Paper button ] for about 4s, release it after a "beep" sound, and perform paper calibration.

## CONFIG

### BASIC CONFIG

Operation steps: Click [ CONFIG ] --> [ BASIC ] on the LCD touch screen (As shown in Figure 3 below)

From this menu, you can set the printing mode, label type, print concentration, print speed, maximum paper height, paper calibration, paper shortage learning, and instruction set. (As illustrated in Figure 4 below)



Figure 3

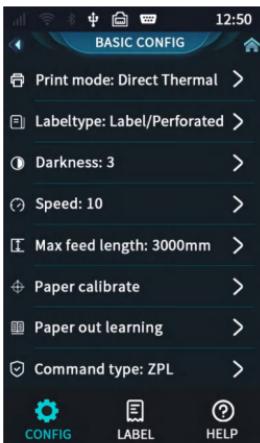


Figure 4

### ⚠ Attention:

1. After setting, please click [Confirm] to confirm the current selection.
2. The recommended printing concentration for thermal transfer mode is set to "12", and the recommended printing concentration for thermal mode is set to "8", which can be set according to different paper materials and effects.

## ADVANCED CONFIG

Operation steps: Click on the LCD touch screen [ CONFIG ] --> [ ADVANCED ]

You can use this menu to adjust the switch Settings of printing offset, switch buzzer, error reset and other functions (As shown in FIG. 5 and 6 below).

## INTERFACE CONFIG

Operation steps: Click on the LCD touch screen [ CONFIG ] --> [ INTERFACE ] You can set serial port, network port, Bluetooth, and WiFi from this menu. (As illustrated in Figure 7 below)

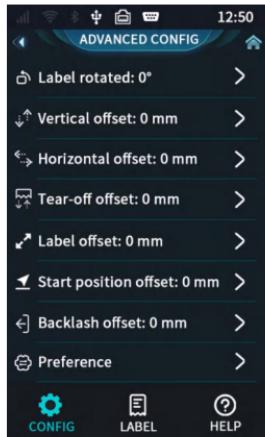


Figure 5

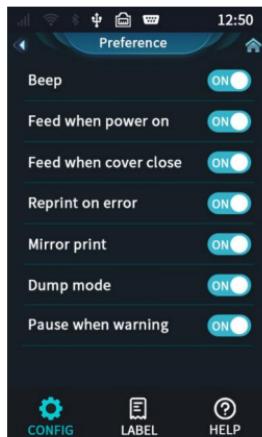


Figure 6

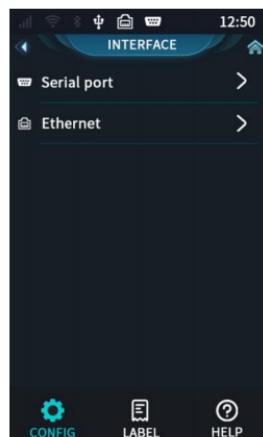


Figure 7

## Label management

Operation steps: Click on the LCD touch screen [ CONFIG ] --> [ LABEL ] You can use this menu to manage label specification parameter files. You can save several label specification parameter files, and you can preview, add, select, and delete these files. (As illustrated in Figure 8 below)

 Note: It is recommended that label file names be named in English with numbers.

## System management

Operation steps: Click on the LCD touch screen [ CONFIG ] --> [ SYSTEM ]

Through this menu, you can set the printer display language, date and time, display brightness Settings, and update the detection software. If necessary, you can restore factory Settings through this setting. (As illustrated in Figure 9 below)



图8

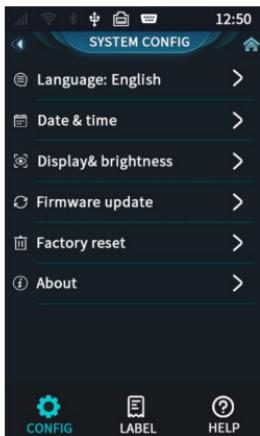


图9

## Daily cleaning and maintenance

### **Warning:**

- *Before maintaining the printer, power off the printer.*
- *The printhead temperature is very high, which may cause serious burns. Please allow the printhead to cool fully before maintaining it.*
- *Please use a special wiping stick to clean.*

### **Clean print head**

In order to ensure print quality and reduce print head wear, it is recommended to clean the print head after each roll of carbon tape is used.

The cleaning steps are as follows:

1. Power off the printer;
2. Open the flap on the printer;
3. Press the lid clamp, release and lift the printing module;
4. Remove the carbon strip;
5. Use a cotton swab or soft cotton cloth dipped in alcohol to wipe the surface of the print head, and wipe repeatedly until no stains appear, indicating that the print head is clean.

### **Clean the printing roller**

In order to ensure print quality and reduce print head wear, please clean the printing roller in time.

The cleaning steps are as follows:

1. Power off the printer;
2. Open the flap on the printer;
3. Press the lid clamp, release and lift the printing module;
4. Back the label paper to expose the printing roller;
5. Wipe the printing roller with a cotton swab or soft cotton cloth dipped in alcohol, and turn the printing roller by hand to ensure complete cleaning.

### **Clean probe optocoupler**

To ensure the detection sensitivity of the detection optocoupler, it is recommended to clean the detection optocoupler at intervals. Use an air blast device (e.g., a suction ball) to probe the surface and center seam of the photocoupler. If it is not clean, please use a special wiping stick to clean it.

### **Cleaning machine bin**

Keeping the printer bin clean can not only effectively ensure the best printing results, but also protect the print head and extend the service life of the print head. Please use a blast device (such as suction ball) to blow off large particles in the bin, and then use a special wiping rod to wipe the surface of each part of the bin.

## Common troubleshooting

### 1. LCD touch screen prompts "Paper type error"

- The set paper type is inconsistent with the actual paper type, please use the set paper type;
- Label type change: Go to [ CONFIG ] --> [ BASIC ] --> [ Label type ] Select the paper type in use;
- Screen click --> [ LABEL ] --> [ Paper calibrate ]

### 2. LCD touch screen prompts "Carbon belt run out"

- No carbon belt is detected. Reinstall the carbon belt.
- Replace the carbon belt when it is used up.

### 3. Poor print quality

- The printing concentration is too low or the speed is too high: go to [ CONFIG ] --> [ BASIC ] to set the appropriate printing concentration and printing speed;
- The label and the carbon belt do not match, please replace the matching consumables;
- Clean the optocoupler and rubber roller; (Use a soft cotton cloth dipped in alcohol to wipe the dust stains on the surface of the optocoupler and roller.)
- Clean the head piece. (Wipe the head with a soft cotton cloth damped with alcohol.)

### 4. Print skip paper

- No paper calibration, paper calibration: Screen click --> [ LABEL ] --> [ Paper calibrate ] ;
- The label size set in the label editing software is inconsistent with the actual label size: change the label size setting in the label editing software;
- Label type change: Go to [ CONFIG ] --> [ BASIC ] --> [ Label type ] Select the label type in use;
- Clean the optocoupler. (Use a soft cotton cloth damped with alcohol to remove dust stains from the optocoupler. )

### 5. Print content compression

- The label is not smooth, please reset the printing speed and printing concentration: go to [ CONFIG ] --> [ BASIC ] --> [ Darkness ] and [ Speed ]

### 6. Carbon tape printing is missing

- Reduce the probability of carbon band creasing by reducing the speed and concentration: Go to [ CONFIG ] --> [ BASIC ] --> [ Darkness ] and [ Speed ]
- Check whether the label matches the carbon belt.

### 7. Print offset

- Click [ CONFIG ] --> [ ADVANCED ] --> [ Label offset ] on the LCD touch screen to adjust parameters, and then print. Until the print is free of bias, the parameter can be tried several times until the appropriate value is found.

 Note: If the fault cannot be removed, please contact us in time. (Email: [service\\_support@rongtatech.com](mailto:service_support@rongtatech.com))

## FCC Warning

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. 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.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement.

To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20 cm between the radiator and your body, and fully supported by the operating and installation



*Note: The products and accessories in this installation manual are schematics. Due to different product versions, the physical product and schematics may be different when updating or upgrading the product. Please refer to the physical product.*

Website: [www.rongtatech.cn](http://www.rongtatech.cn)  
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