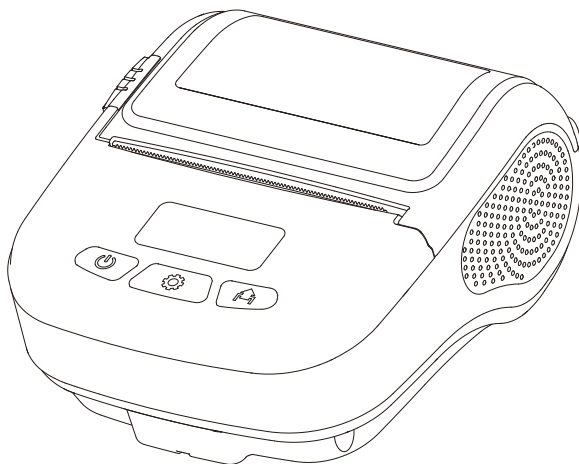


RONGTA

USER MANUAL



RPP31

Mobile Label Printer

Version:1.0

Catalogue



Introduction	3
Safety Instructions	4
APP Download	5
I. Product Introduction	6
1.1 Product Specifications.....	6
1.2 Unpacking List	7
1.3 Appearance and components	8
II. Installation and Usage	9
2.1 Battery Installation	9
2.2 Battery Charging.....	9
2.3 Paper Width Adjustment Usage.....	10
2.4 Paper Roll Installation.....	11
III. Instructions for Basic Functions	12
3.1 Key Function Description	12
3.2 Icons Description	12
3.3 Settings Interface Description	13
3.4 USB Connection to Printer	14
3.5 Bluetooth Connection.....	14
IV. Driver installation instructions	15
4.1 Driver Introduction.....	15
4.2 Driver Download	15
4.3 Driver Installation.....	16
4.4 Driver Usage	18
4.5 Uninstalling the Driver.....	24
V. Mac: Driver Installation -USB.....	26
5.1 Driver download	26
5.2 Driver installation.....	27
5.3 Add Printer on Mac.....	28
5.4 Mac: macOS system Bluetooth printing operation.....	31
VI. Barcode label editing software installation and use.....	32
6.1 Software Download	32
6.2 Software Installation	32
6.3 Tag editing software used	33
VII. Windows: Printer Settings Tool User Guide	37
7.1 Uses of the Label Tool.....	37
7.2 Tool Download.....	37
7.3 Tool Instructions.....	37
7.4 Printer Setup Instructions	37
7.5 Tool setup	40
VIII. Mac: Instructions for Using the Printer Settings Tool	47
8.1 Mac setup printing.....	47
8.2 Paper Size Settings.....	47
IX. Daily cleaning and maintenance	49
9.1 Clean print head	49
9.2 Cleaning sensor	49
9.3 Clean the printer roller	50
X. Troubleshooting	51
XI. FCC WARNING	52

Introduction

Thank you for purchasing our portable label printer. This printer is compatible with various smart terminals and PDAs, offering exceptional durability and the ability to withstand drops from a height of 1.5 meters. It supports a variety of consumables, including black label paper, stitch label paper, and continuous paper, and provides long-lasting battery life—a single charge can meet the demands of extended work sessions. The device is equipped with a 0.91-inch OLED display that clearly and intuitively shows the working status. Its paper compartment accommodates paper rolls up to $\Phi 50\text{mm}$ in diameter, and it features built-in large-capacity storage to ensure an efficient and stable continuous printing experience. The printer is widely used in logistics and transportation, retail stores, industrial manufacturing, warehouse management, and other scenarios, providing industry users with reliable label and receipt printing solutions.


This manual provides a comprehensive introduction to the installation and operation of the printer, details the device settings and daily maintenance procedures, and offers clear solutions for common troubleshooting issues.

Symbolic convention

Symbol	Instructions
	Note Provides additional information to emphasize or supplement important points in the main text.
	Indicates a warm reminder

Version record

Version number	Release date	Instructions
V1.0	2026.01	Update layout

 The illustrations and descriptions used in this manual may differ from the actual ones.

Safety Instructions

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

1. Do not use or store the printer in environments with high temperature, high humidity, or severe pollution.
2. Using a battery pack of an incorrect model may pose a risk of explosion.
3. Do not throw the battery into fire or heating furnaces, and do not dispose of the battery by mechanical crushing or cutting.
4. Do not place the battery in extremely high-temperature environments that may cause the battery to explode or leak flammable liquid or gas.
5. Do not place the battery in extremely low-pressure environments that may cause the battery to explode or leak flammable liquid or gas.
6. Protect the printer from liquid intrusion or moisture. Do not use the printer in extremely humid environments (such as rain or water splashing), as this may cause damage to the printer or lead to fire. In the event of liquid intrusion, immediately turn off the printer, unplug the USB cable, and remove the battery. Place the printer in a dry environment to air dry naturally. Do not power on the device again until it is completely dry inside, as this may cause damage or fire.
7. The typical lifespan of the battery is 500 cycles. After reaching its lifespan, if continued use is necessary, monitor the battery's condition regularly. Replace the battery promptly if swelling or reduced performance occurs.
8. During battery use, stop charging or disconnect the charger once the battery is fully charged. Avoid prolonged continuous charging or maintaining the battery at high voltage for extended periods, as this may lead to overcharging, floating charging, reduced battery lifespan, poor performance, and shorter standby time.
9. For long-term storage, charge the battery to 70% capacity and perform a charge-discharge cycle every three months. Avoid storing the battery without charging for extended periods.
10. If the device will not be used for a long time, remove the battery before storage to avoid standby power consumption while installed.
11. During storage or use, ensure the battery or device is kept in a cool, dry, and well-ventilated environment, away from fire sources, high temperatures, water exposure, or immersion.
12. Over-discharged batteries should not be used further.

Safety warning



Note: The tearing blade has a sharp edge, please be careful not to touch to prevent cuts.



Warning: The print head is a hot part, during the printing process or just after printing, Do not touch the print head and surrounding parts, children must use it under adult supervision.



Warning: Do not touch thermal print head surfaces and connectors. Avoid electrostatic damage to the print head.

APP Download

Smartphone

Download the "ELabel" App

Method 1: For iOS systems, search and download "ELabel" from the App Store.



Method 2: Scan the QR code below to download the app.



After installing the APP on your phone, connect to the printer:

Bluetooth Name: RPP31-XXXX (last four digits of the Bluetooth address)

Bluetooth Password: Default 0000

For Android phones:

1. Tap Device Info in the upper-left corner of the App.
2. Select Bluetooth Connection.
3. The system will automatically search and display a list of available devices.
4. Locate and tap your Printer Name in the list to complete pairing and connection.

For iOS phones (iPhone):

1. Tap Port Type at the bottom of the App page.
2. Select Bluetooth Connection to enter the device search page.
3. The system will automatically search and display available devices.
4. Locate and tap your Printer Name in the list to complete pairing and connection.

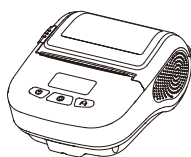
I. Product Introduction

1.1 Product Specifications

Item		Product specification
Print	Printing mode	Thermal printer
	Resolution	203dpi
	Maximum print width	3"(72mm)
	Maximum print speed	4ips(100mm/s)
	Print length	17.72ips(450mm)
Sensor		Stitch Label Detection, Black Mark Detection, Paper-out Detection, Cover Open Detection, Print Head Temperature Detection
Medium	Type	Label paper, black label paper (lower black label), continuous paper
	Width	0.87"-3.15"(22-80mm)
	Thickness	0.0023"0.0071" (0.06 mm to 0.18 mm)
	Paper Roll Diameter	Φ2"(Φ50mm(MAX))
Tearing mode		Manual Paper Tearing
Processor		Double 32bit RISC MCU
Store	RAM/FLASH	8MB/16MB
Feature	Key	Power key, Feed key, Settings key, Paper compartment cover opening button
	Buzzer	Buzzer alert tone
	Display Screen	0.91" OLED screen
Communication interface		U/BU (Type-C)
Programming language		CPCL+ESC
Built-in font		ASCII Font: 8x16, 12x24, 12x32, 16x16, 16x48, 24x24, 24x32, 24x48
Code page	Extended character list	CP437, CP850, CP852, CP860, CP863, CP865, CP866, WPC1250, WPC1251, WPC1252, WPC1253, WPC1254
Bar code	1D	Code39, Code39C, I25, Code93, ITF25, EAN128, Code128, Codabar, EAN-8, EAN8+2, EAN8+5, EAN-13, EAN13+2, EAN13+5, UPC-A, UPCA+2, UPCA+5, UPC-E, UPCE+2, UPCE+5MSIC, ITF14, EAN14, Code11
	2D	QRCODE, PDF417
Software	Actuate	XP, Win7, Win8, Win10, Win11, Mac
	SDK	Android, ios, Windows
	Label design	ELabel APP
Power adapter		Input: AC 100-240V, 50/60Hz
		Output: DC 5V/2A
Environmental parameter	Professional	Temperature: 5-113°F (-15~45°C) ; Humidity: 20-90%(no condensation)
	Store	Temperature: -4-140°F(-20-60°C); Humidity: 20-90%(no condensation)
Physical parameter	Dimensions	130.5mm*108mm*59.5mm
	Weight	460g (excluding paper roll)

1.2 Unpacking List

After receiving the printer, please first check whether the packaging box, the printer's appearance, and accessories have been damaged during transportation. If any damage or missing accessories are found, please immediately file a written claim with the carrier and simultaneously contact after-sales service for assistance.



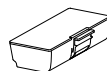
Printer



USB cable



Power adapter



Battery



Quick installation Guide



Belt buckle

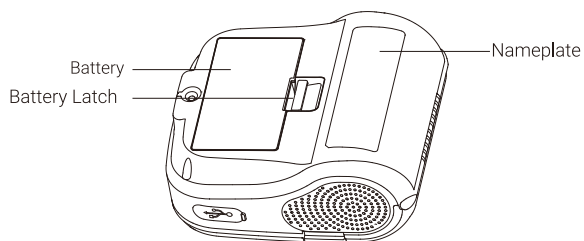
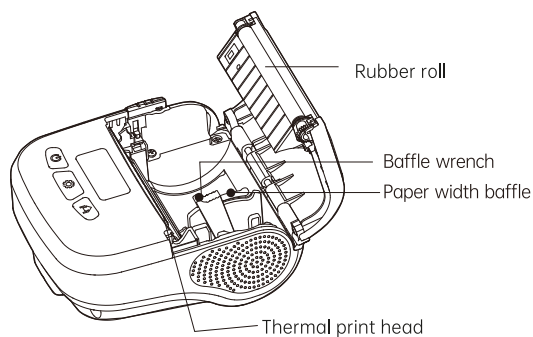
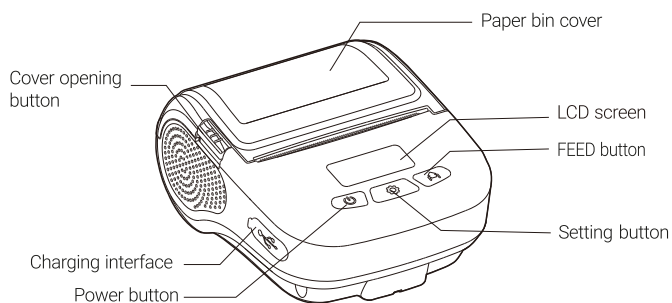



Roll



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

1.3 Appearance and components



 **Note:** Interfaces are optional or customized, and the specific interfaces are subject to the actual product.

II. Installation and Usage



Friendly reminder: It is recommended to remove the protective film from the LCD screen before use!

2.1 Battery Installation

- (1) When installing or removing the battery, ensure that the printer's power is turned off.
- (2) As shown in Figure 1 below, insert the battery into the battery slot on the back of the printer in the direction of the arrow. Press the battery downward until the latch clicks into place.
- (3) As shown in Figure 2 below, when removing the battery, release the battery latch and follow the reverse steps of battery installation.

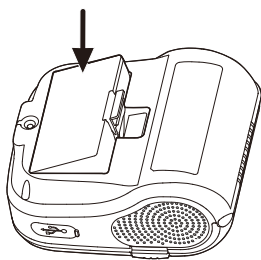


Figure 1

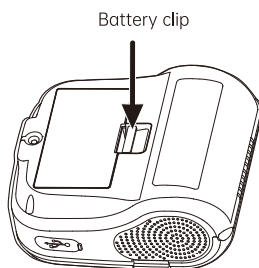


Figure 2

2.2 Battery Charging

Charging in Standby Mode

Connect the power adapter plug to a power outlet and insert the USB interface into the printer's charging port.

AC Input: 100V–240V (50/60Hz).

During Charging: The battery indicator light will flash, and the power level bar will scroll.

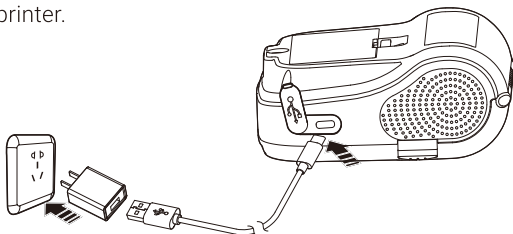
Charging Complete: The battery icon will show a full charge, and the buzzer will emit a "beep" sound.



Note: Do not remove the battery during charging.



Warning: Using a power adapter not provided or approved by our company may damage the printer.



2.3 Paper Width Adjustment Usage

Guide Plate Lever Up: Lock paper width adjustment.

Guide Plate Lever Down: Unlock paper width adjustment.

The paper width can only be adjusted when the adjustment is unlocked. Follow the steps below:

- (1) Adjust the paper width according to the paper size. Pinch the top of the paper guide plate and slide it to the left (as shown in Figure 1).
- (2) Place your hand inside the paper roll compartment and slide the bottom component of the width adjustment block to the left (as shown in Figure 2).

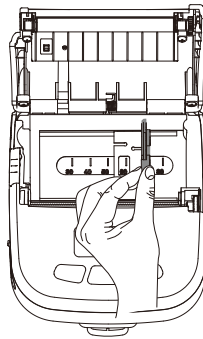


Figure 1

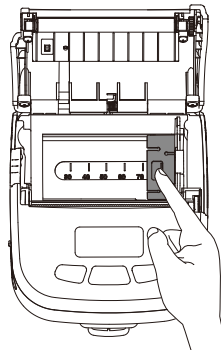
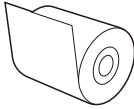


Figure 2

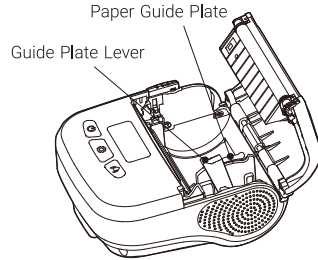
2.4 Paper Roll Installation

- (1) Remove the seal from the thermal paper roll.
- (2) Press the cover release button to open the paper compartment, move the guide plate lever to unlock, and initially adjust the paper guides to match the paper width.
- (3) Place the paper roll into the compartment, fine-tune the paper guides to rest lightly against the roll, then secure by flipping the guide plate lever to the locked position.
- (4) Pull a short length of paper through the output slot, then close the compartment cover.

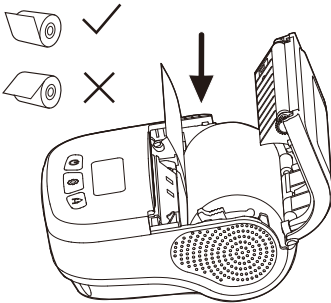
1



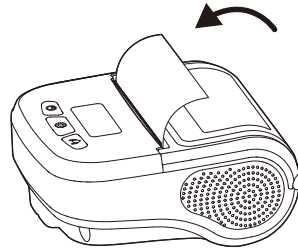
2



3



4



Note

1. Paper Specifications for the Printer

Paper Width: 22-80 mm (adjustable on one side) **Roll Diameter:** 50 mm

2. Pay Attention to the Paper Orientation

If the paper roll is installed incorrectly, it may result in blank printing or paper feed without printing.

III. Instructions for Basic Functions

3.1 Key Function Description

Power On: When the printer is off, press and hold the power button for 3 seconds to turn on the printer.

Power Off: When the printer is on, press and hold the power button for 3 seconds to turn off the printer.

Paper Feed: Press the “Paper Feed” button briefly to feed paper; press and hold the “Paper Feed” button for 3 seconds for paper calibration.







Auto Sleep: If no button is pressed or data is transmitted within 10 seconds while the printer is on, it will automatically enter sleep mode. Sleep indicator: zZ.

Auto Shutdown: If no button is pressed or data is transmitted within 2 hours while the printer is on, it will automatically power off.

Wake Up: When the printer is in sleep mode, press the power button, settings button, paper feed button, or send data to the printer to wake it up.

Restore Factory Settings: While the printer is off, press and hold both the “Power” button and the “Paper Feed” button for 5 seconds. The buzzer will beep continuously 5 times, followed by one additional beep. The printer will then power on automatically, indicating that the factory reset is complete.

3.2 Icons Description

Paper shortage state	 Insert Paper	When paper shortage occurs or the paper roll is not properly loaded
Cover opening state	Close Cover	When the r paper bin cover is not closed or not properly closed
Battery indication		When charging, the icon will scroll to indicate the charging status
Bluetooth indicator	 ( indicates successful Bluetooth connection)	Printer with Bluetooth function, this icon shows.
WiFi indicator(Optional)	 ( indicates successful WiFi connection)	Printer with wireless function, this icon shows.

3.3 Settings Interface Description











Press and hold the **"Settings"** button for 3 seconds when the printer is not in sleep mode to enter the settings interface.

Press the Settings button briefly to switch between menu items.

After selecting a menu item:

Press the **"Paper Feed"** button to switch parameters.

Press the **"Power"** button to confirm or exit the menu settings.

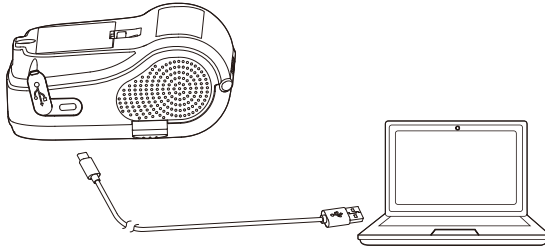
 ●●●●●●●●●●▶ Print Info	Print self-test page	Press the [FEED button] to start printing the self-test page and exit the menu
 ●●●●●●●●●●▶ Paper Type: Gap	Mark/None/Gap	Set paper type
 ●●●●●●●●●●▶ Paper Learn	Label learning	For current paper learning
 ●●●●●●●●●●▶ Darkness: 2	0-4	Set a small range of clarity
 ●●●●●●●●●●▶ Print Quality: 2	0-4	Set a wide range of clarity
 ●●●●●●●●●●▶ Speed: 4	0-5	Set print speed
 ●●●●●●●●●●▶ Buzzer Set: Open	Open/Close	Set whether to enable the buzzer
 ●●●●●●●●●●▶ Power Feed: Close	Open/Close	Set whether to turn on the boot paper
 ●●●●●●●●●●▶ Cover Feed: Close	Open/Close	Set whether to open and close the cover paper
 ●●●●●●●●●●▶ ScreenSaver:10	Screensaver time 10s/30s/60s/99s	Set the screensaver time
 ●●●●●●●●●●▶ AutoShutdown:-	Automatic shutdown - /1-5 hours	Set automatic shutdown
 ●●●●●●●●●●▶ Language:English	English\中文	Set language
 ●●●●●●●●●●▶ Cmd Mode:CPCL	TSPL/CPCL/ESC	Instruction mode setting
 ●●●●●▶ Paper Size: 80	58/80	Set paper size (for ESC instruction only)
 ●●●●●▶ Exit menu	Return to main screen	



Note: The interface is for reference only. If there is any discrepancy in the interface, the actual operational interface shall prevail (commands can be customized).

3.4 USB Connection to Printer

The printer is equipped with a USB port. As shown in the illustration, connect it to a PC to charge the printer, configure settings, transfer data, and perform other operations.



3.5 Bluetooth Connection

Bluetooth Name: RPP31-XXXX (Last four digits of Bluetooth address)

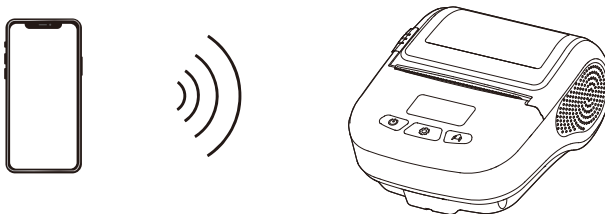
Bluetooth PIN: Default 0000

For Android smartphones:

1. Tap **【Device Info】** in the upper left corner of the App.
2. Select **【Bluetooth Connection】** from the menu.
3. The system will automatically search and display a list of available devices.
4. Locate and tap your **【Printer Name】** in the list to complete pairing and connection.

iOS Devices (iPhone):

1. Tap **【Connection Type】** at the bottom of the App interface.
2. Select **【Bluetooth Connection】** to enter the device search interface.
3. The system will automatically search and display available devices.
4. Locate and tap your **【Printer Name】** in the list to complete pairing and connection.



IV. Driver installation instructions

4.1 Driver Introduction

This driver is applicable to the following operating systems:

Microsoft Windows 11 (64 bit)

Microsoft Windows 10 (32 bit/64 bit)

Microsoft Windows 8 (32 bit/64 bit)

Microsoft Windows 7 SP1 (32 bit/64 bit)

Microsoft Windows Server 2012(64 bit)

4.2 Driver Download


(1) Visit the official website of Rongta University, www.rongtatech.com

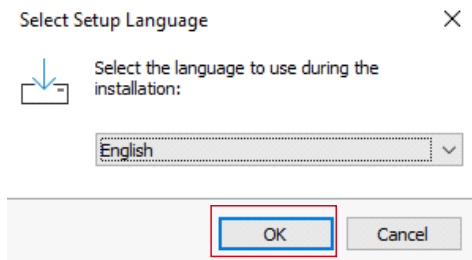
(2) Click **“SUPPORT”**--->**“Driver Download”** find the appropriate driver click **“DOWNLOAD”**

4.3 Driver Installation

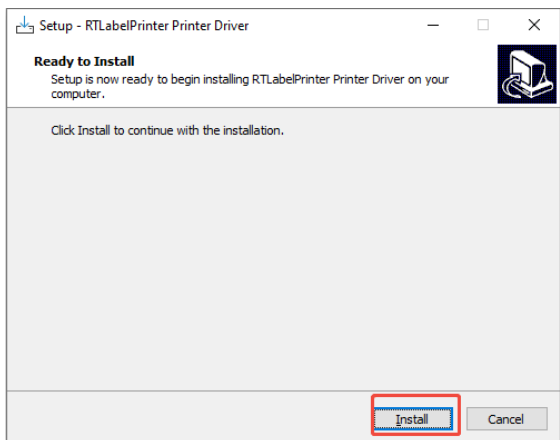


Note: Before installing the driver, ensure the printer is powered on and connected to the computer via USB. The illustrations below may vary depending on your computer's operating system. The following example is based on Windows 10. It is recommended to temporarily disable any security or antivirus software before installation to avoid interference with driver setup. The driver is an integrated package and will automatically install the appropriate version matching the printer command language.

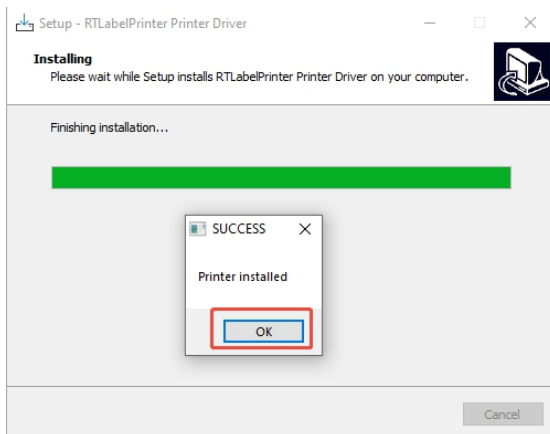
- (1)  **RTLabelPrinterDriverInstall** Double-click the driver file. A dialog box as shown in the image below will appear. Select the installation language and click "OK", as illustrated in the following figure.



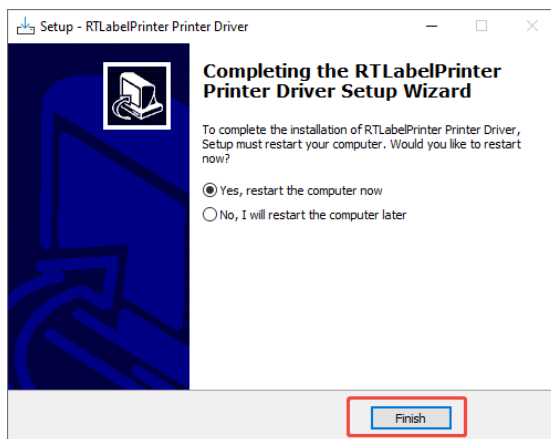
- (2) Pop up the dialog box as shown below, select "Install";



(3) Click "OK";



(4) Click "Finish" to complete the driver installation;



(5) You can find the installed printer icon in Control Panel — Devices and Printers.



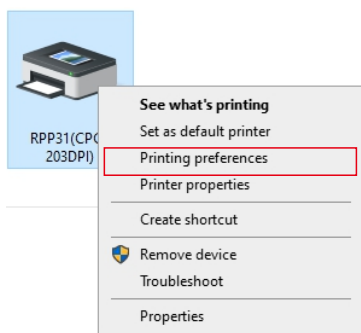
RPP31(CPCL
203DPI)

4.4 Driver Usage

Under normal circumstances, the driver can be used after installation, the default printing paper size of the driver: 72mm*130mm, if the user's printing paper size is inconsistent with the default paper size, it needs to be reset, if not reset, the print may be missing or cannot be printed normally, the specific setting method is as follows:

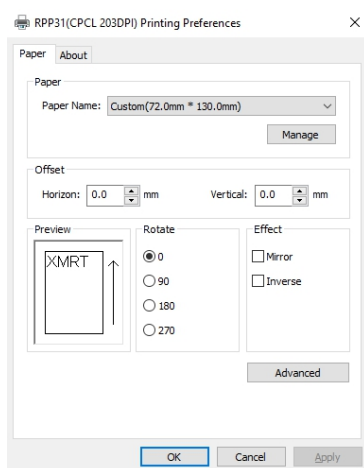
(1) Printing preferences

- (1) Click **"Control Panel" – "Devices and Printers"**, right click the printer icon, select **"Print Preferences"**

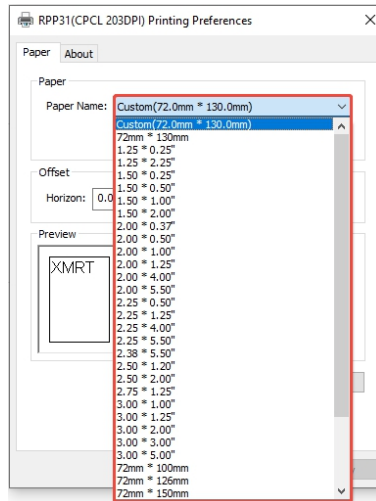


Paper

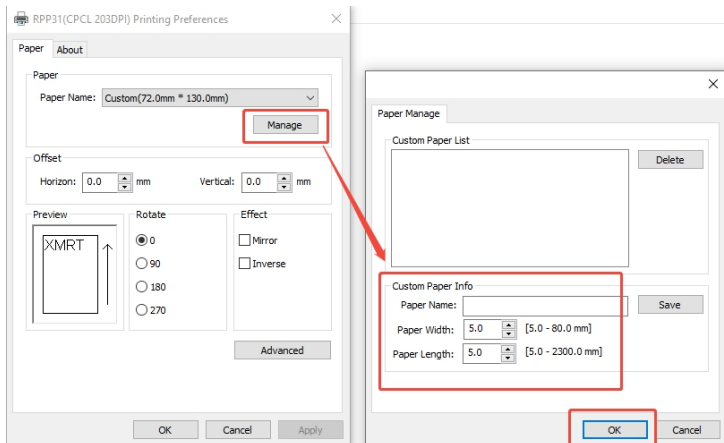
In the **"Paper"** option, you can set the **paper, offset, effect, etc.**



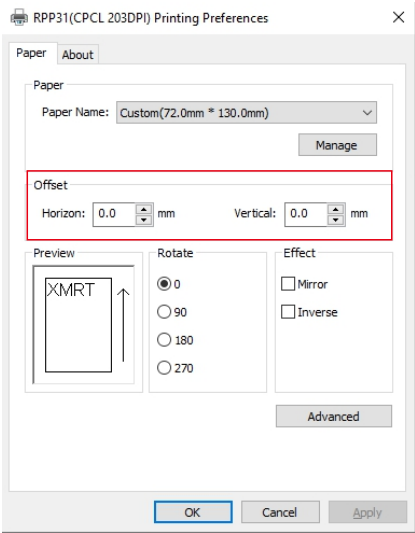
- Drop down "Paper Name" and select the paper size according to the actual paper size. Default size (72mm*130mm)



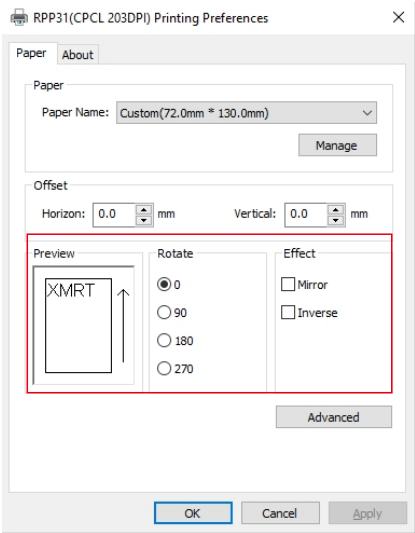
- Click "Manage" to customize the paper size Settings.



- Click **"Horizon"** or **"Vertical"** to set the horizontal and vertical printing margins.

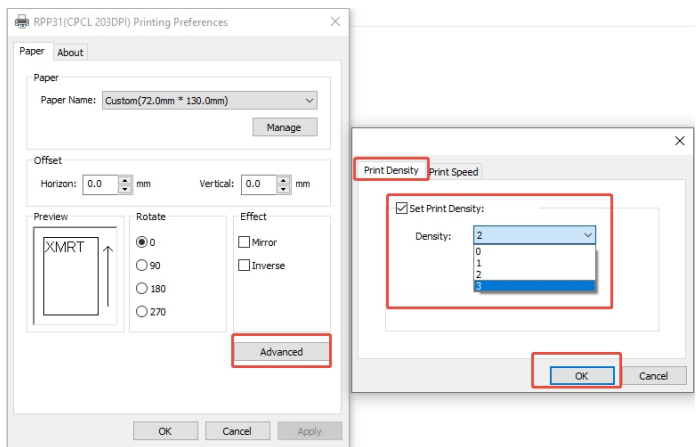


- Click **"Rotate"** or **"Effect"**. The left preview shows the print position
Rotate: Printing in different directions can be set.
Effect: The image can be mirrored or reversed printed.

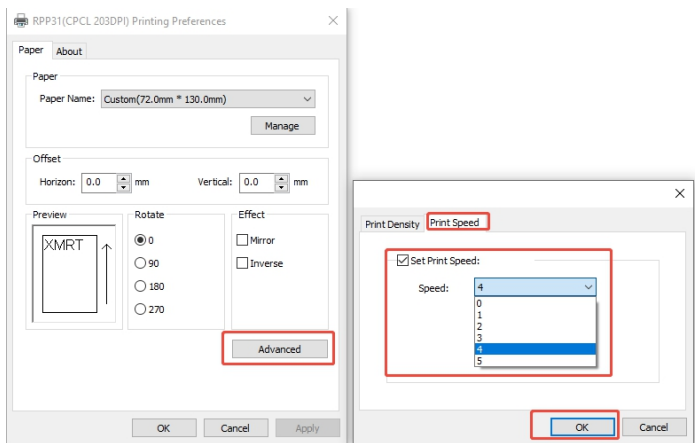


● **Select Advanced Settings.**

Set Print Density: due to the inconsistency of the color degree of the paper, the printing concentration parameter is increased if the printing effect is light, and the printing concentration parameter is reduced if the printing is strong.

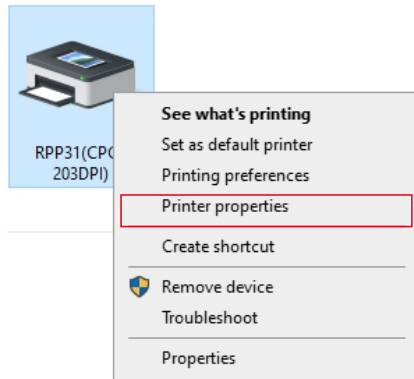


Set Print Speed: the general default speed "5", according to the printing needs to adjust the printing speed.

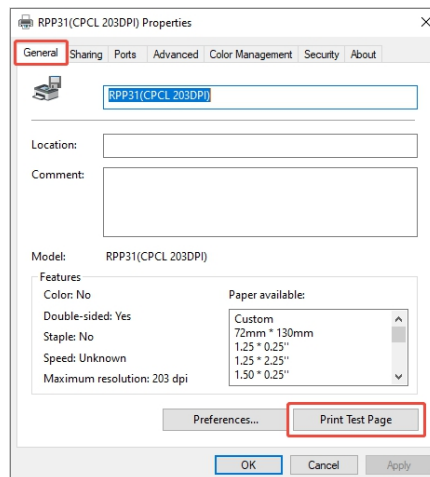


(2) Printer properties

- 1) Click "Control Panel" ----> "Device and Printer", right-click the printer icon, and choose "Printer properties"



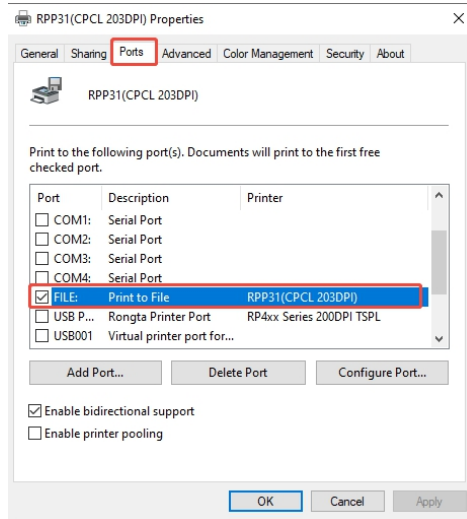
- 2) Select "General" and click "Print Test Page". The printer starts to print the current configuration.



Select "Print Test page ", if the test page can be printed normally, it indicates that the printer is correctly connected to the PC and configured, and the printer can be used normally.

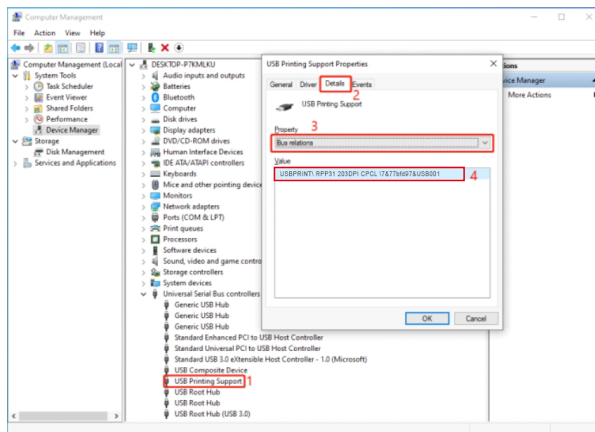
3) Click **"Ports"**, select the corresponding port, click " ✓ ", and then click to confirm the setting.

 **Note:** A printable test page is available to confirm that the setup is successful.



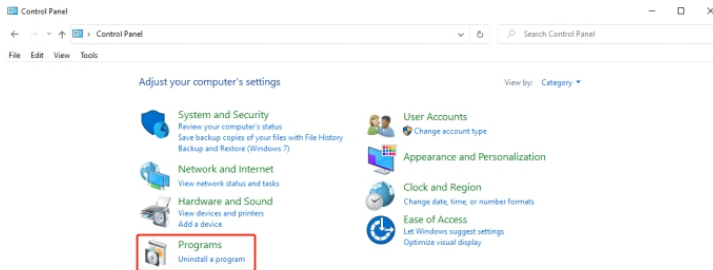
Steps to find the port type:

Desktop: **"the computer"**, right click on the **"management"**, open the **"device manager"** USB print support
"**---->**" right click **"properties"** option to port.

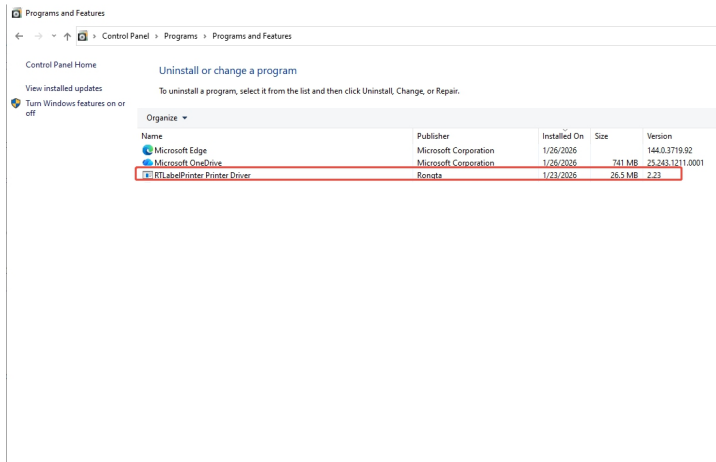


4.5 Uninstalling the Driver

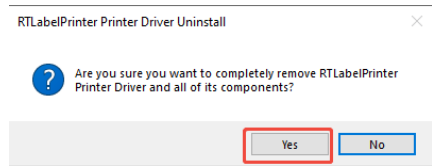
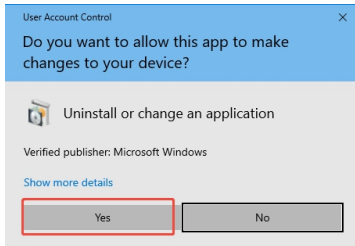
(1) Open "Control Panel" ----> "Programs";



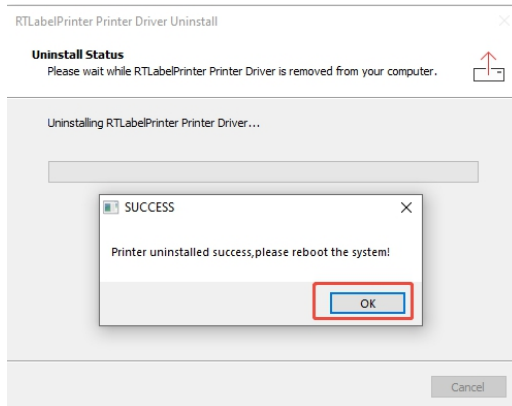
(2) Select "RTLabelPrinter Printer Driver" and right-click Uninstall.



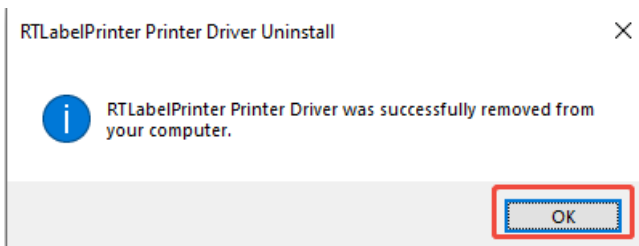
(3) Click "Yes",



(4) Click "OK",



(5) Click "OK". The driver is uninstalled successfully.

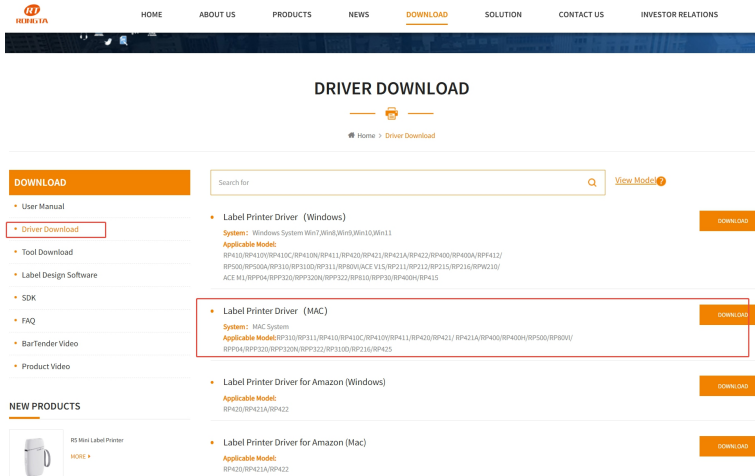


V. Mac: Driver Installation -USB

5.1 Driver download

Before using the printer with your computer, you will need to install our driver software on your computer.

- 1) Ensure the printer is **"ON"**, and the label paper was loaded properly.
- 2) Connect the USB cable from your computer to the printer.
- 3) Please visit URL: www.rongtatech.com ----> find **"Label Printer Drivers(MAC)"** and download it to your Mac.



Ensure the printer is **"ON"** and the USB cable is connected with your computer the printer.

Double-click the downloaded driver **"RTLabelPrinterMacDriver.pkg"** and follow the prompts to complete the installation.

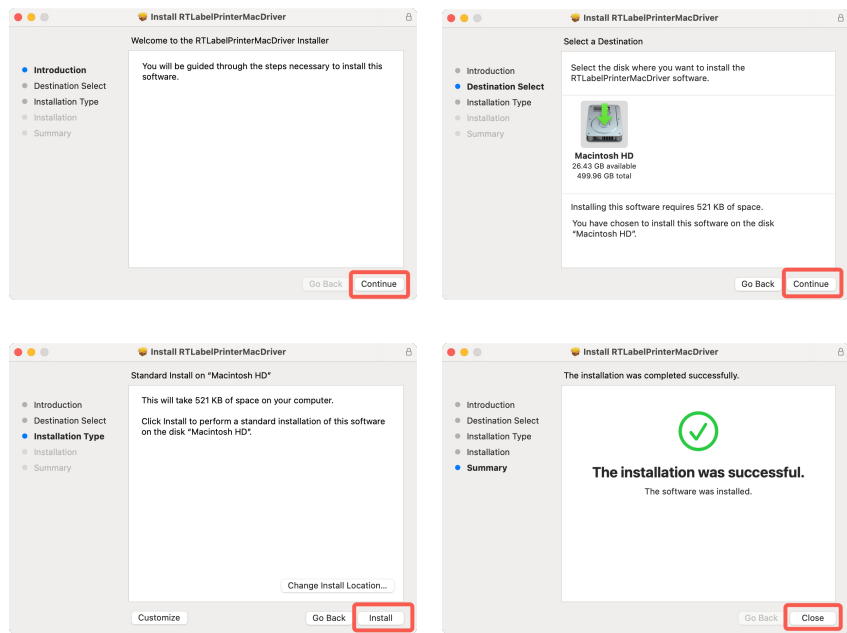


Note:

If you are unable to download the driver software from our website, please contact our service team:
service_support@rongtatech.com

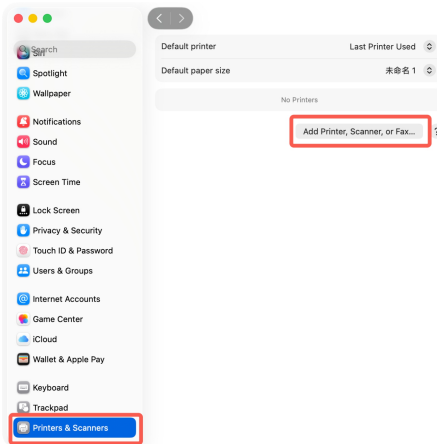
5.2 Driver installation

Double-click the driver software and follow the prompts to complete the installation. Click **“Continue”** -> click **“Install”** and follow the prompt to complete the installation.



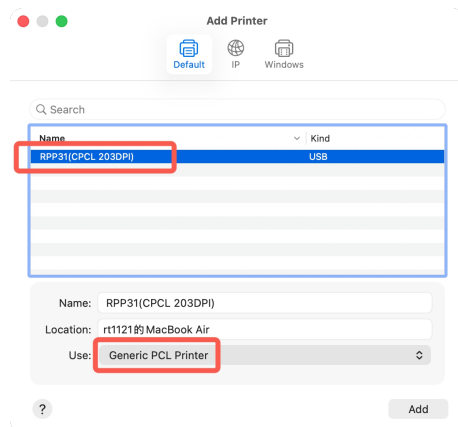
5.3 Add Printer on Mac

(1) Please select **"Printers & Scanners"** ----> select **"Add Printer, Scanner, or Fax"** open it.

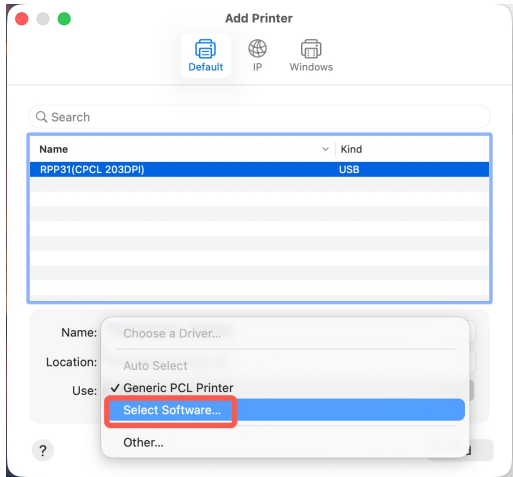


(2) Please select **"RPP31(CPCL 203DPI)"** ----> Please **"Generic PCL Printer"**;

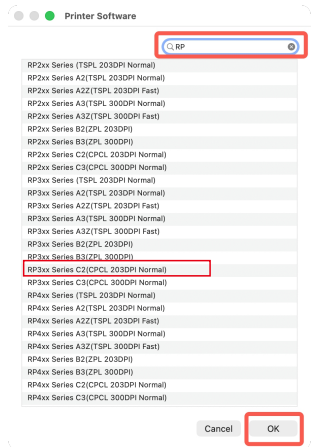
(If you cannot find the printer after installing the **"RTLabelPrinterMacDriver"** on your Mac, try reconnecting the USB cable. The device will then appear normally. This method can resolve the issue.)



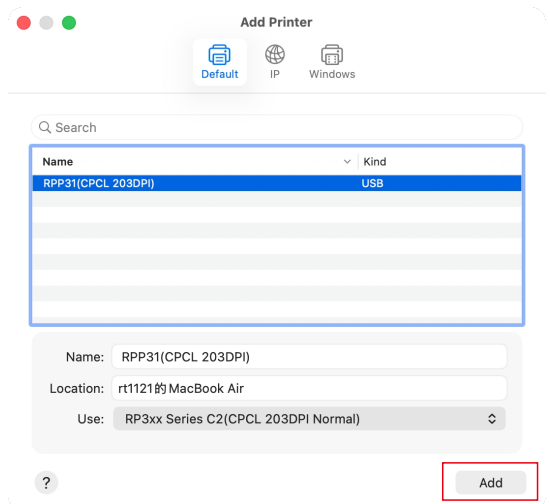
(3) Use "Select Software...";



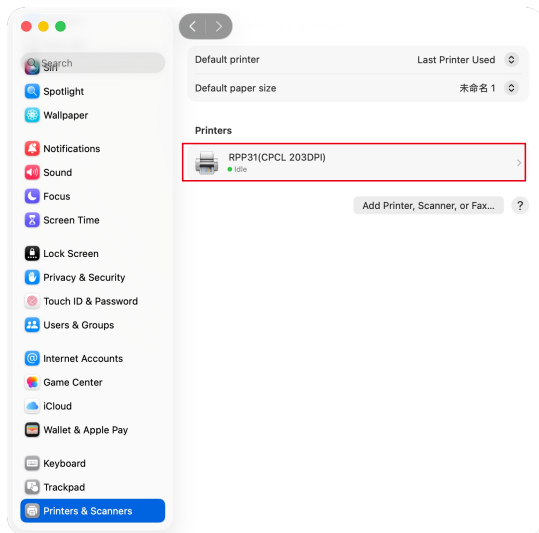
(4) Enter "RP" to locate "RP3xx Series C2 (CPCL 203DPI Normal)" and click "OK";



(5) Select "Add";



(6) Open "System Settings" —> Select "Printers & Scanners" to locate the added printer, "RPP31 (CPCL 203DPI)".



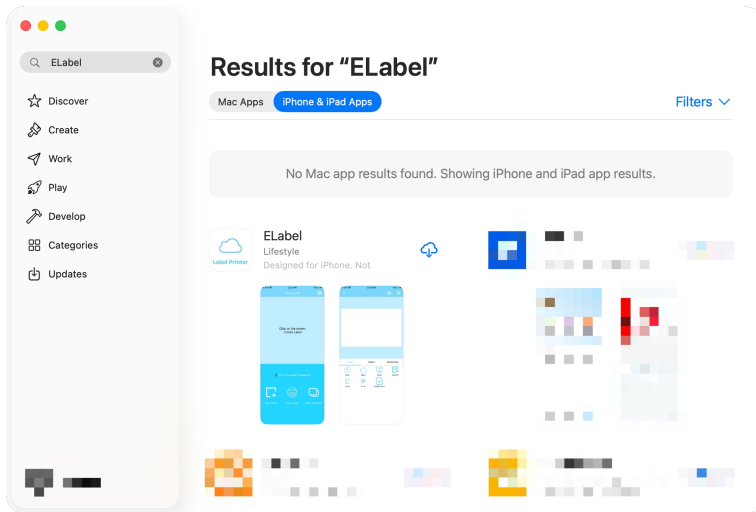
Note

1. After installation, the printer model (command, resolution) will be automatically recognized.
2. After the USB driver is successfully installed, select the corresponding printer in the application software's printing menu to achieve printing.

5.4 Mac: macOS system Bluetooth printing operation

(1) Download App

Click "App Store" --> Enter "ELabel", and follow the step-by-step prompts to complete the download.



(2) Connect the printer

For more clear of install, connect & using App on macOS, please kindly visit our related demo video URL: "www.rongtatech.com"

- 1) Make sure the App installed, the bluetooth of smartphone activated.
- 2) Keep the printer power on.
- 3) Select the top left icon, and select the printer to connect.
- 4) Pairing code if need: "0000 or 000000".

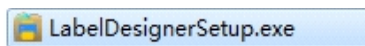
VI. Barcode label editing software installation and use

6.1 Software Download

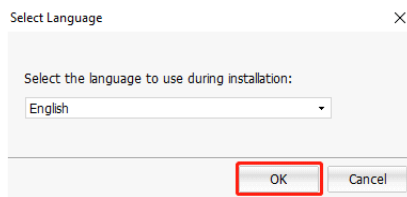
- (1) Visit the official website of Rongta University at www.rongtatech.com;
- (2) Click "DOWNLOAD", find the "Driver Download" "LabelDesigner(Windows)" and click "DOWNLOAD".

6.2 Software Installation

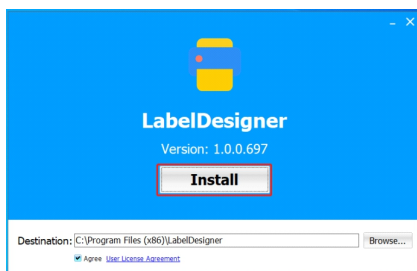
- (1) Double-click the label editing software



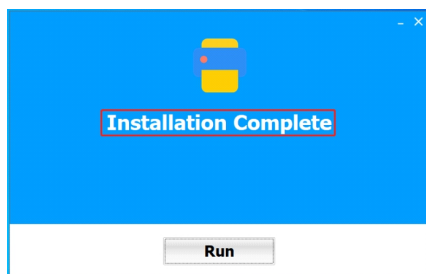
- (2) Select the language you want to use and click "OK"



- (3) Click "Install "

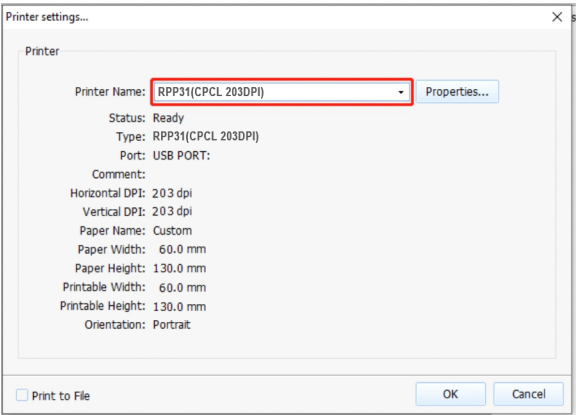


- (4) Click Experience Now to complete the installation.

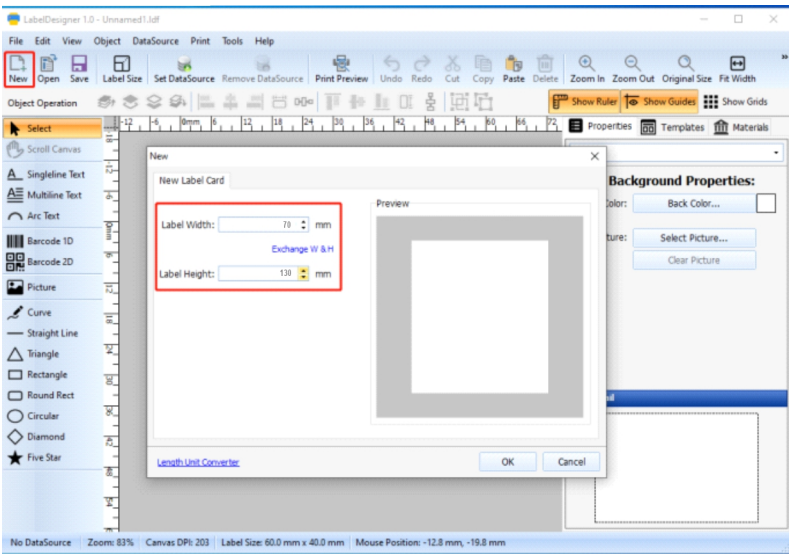


6.3 Tag editing software used

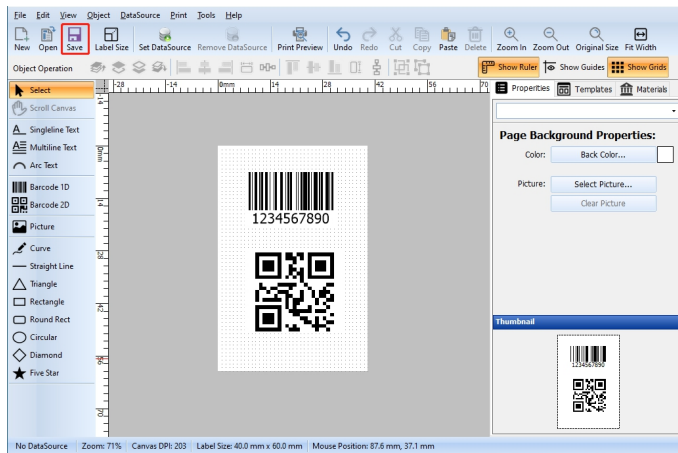
- (1) Double-click Barcode Label Printing System.
The following dialog box is displayed. Select the installed printer driver and click OK.



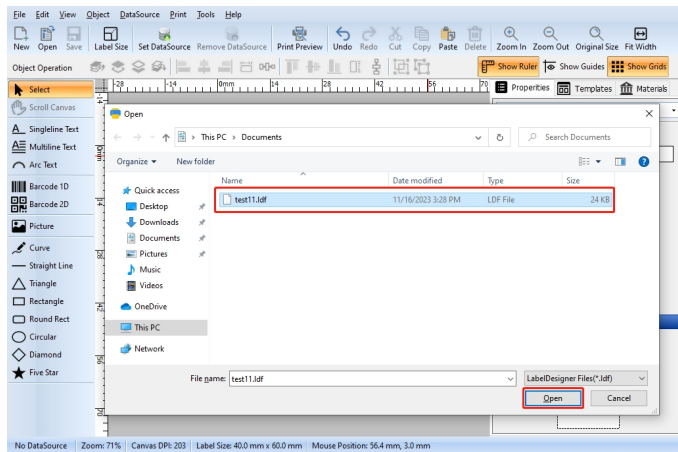
- (2) Select "New" in the upper left corner of the title bar, enter the actual label size, and click "OK".



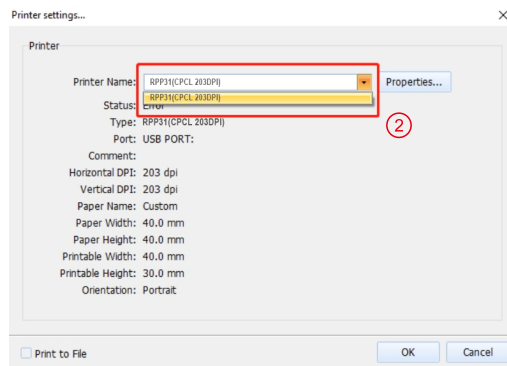
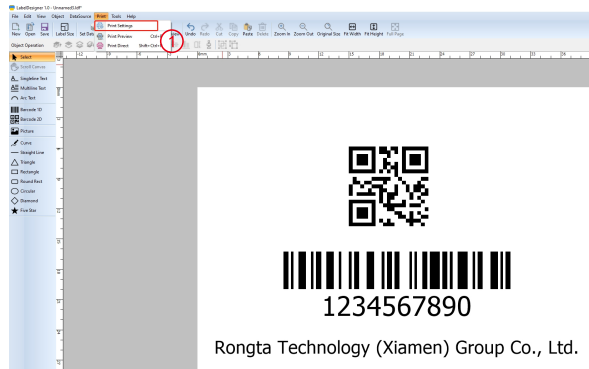
(6) To save the current edit tag template, select **"Save"** in the title bar to save it to your computer



(7) To open the previously saved file, open the Barcode Label Printing System software first. Then select **"Open"** in the title bar. As shown in the following figure, find the previously saved LDF file and select **"Open"** to open the previously saved label template.



(8) To replace the printer, select **"Print" -----> "Print Settings" -----> "Printer Name"** and select the printer model in the title bar.



VII. Windows: Printer Settings Tool User Guide

7.1 Uses of the Label Tool

- (1) Query or configure basic printer information.
- (2) Set Ethernet, WiFi, serial port, Bluetooth, and character set parameters.
- (3) Update the printer firmware and font library.
- (4) Provide relevant shortcuts (for example, print a self-test page).
- (5) You can use the tool to send data.

7.2 Tool Download

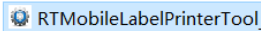
- (1) Visit the official website of Rongta University at www.rongtatech.com
- (2) Click on "SUPPORT", find "TOOL DOWNLOAD", find "Label Printer Tool" and click "DOWNLOAD".

7.3 Tool Instructions

Printer ready to use tool:

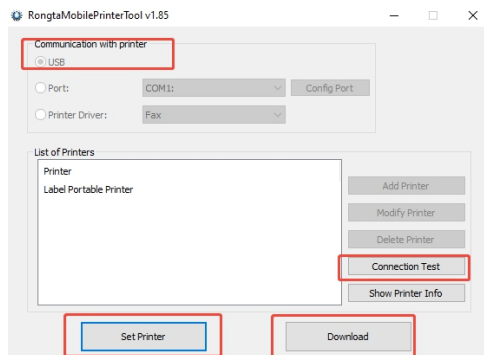
- (1) Make sure that the printer is connected to the power supply and is in the shutdown state;
- (2) The communication cable used is inserted into the communication connection plug of the corresponding printer;
- (3) Confirm that the printer has installed the paper roll;
- (4) Turn on [power switch].

7.4 Printer Setup Instructions



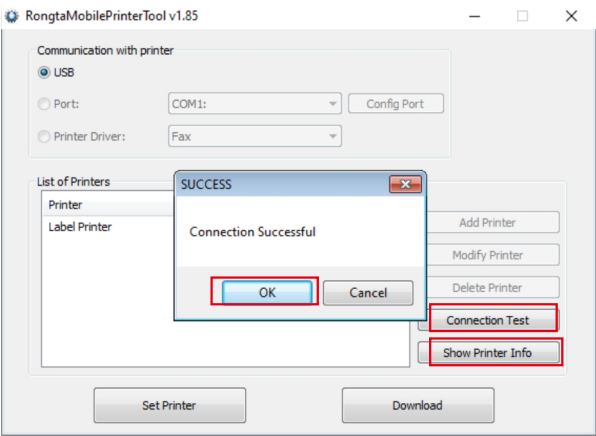
Double-click the tool to appear the following interface, as shown in the following picture

If the printer is connected to USB, directly default the USB option, and then "set the printer" or "download" the program (if the printer is connected to USB, then USB can be selected, if not, then the USB option is gray, can not be selected, as shown in the following picture).

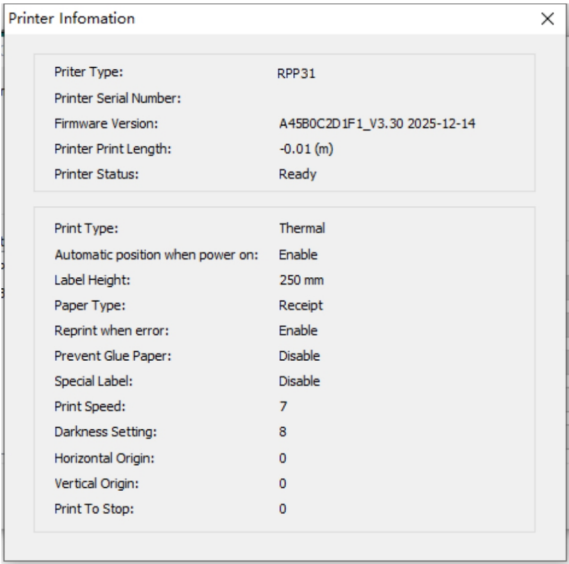



Note: The tool version number is subject to the actual version, and screenshots in this manual are for reference only.

Select USB and click **"Connection Test"**. If the following figure shows success, it means that the printer has been connected (if the connection is unsuccessful, please reinstall the communication cable and test the communication Settings).

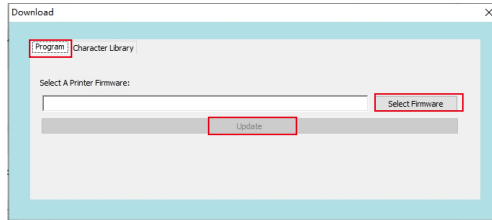


Click **"Show Printer Info"** to view the basic information of the current printer, as shown in the figure below.

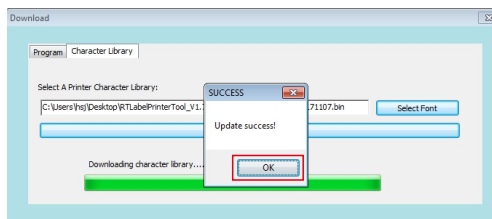
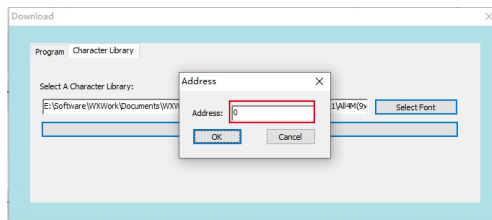
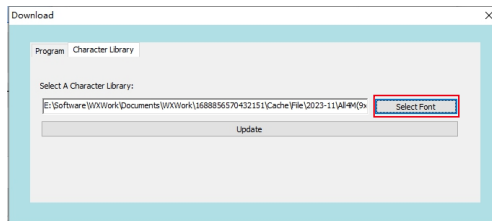


 **Note:** The information of each printer is different. Please refer to the actual Settings.

When the firmware version of the printer is low or non-ideal, you can click **"Download"**. The following dialog box is displayed, click **"Program"** to open the file, and then click **"Update"**. After the interface shows that the update is successful (do not manually power off), the printer will enter the update mode (the light is off). About 5-10s later, the printer will automatically restart (the light is on). At this time, you can click "Show printer information" or "Print self-test page" to confirm whether the update is successful.



If the user wants to change the font by himself, he can select **"Character Library"**, click **"Select Font"** to select the font, and then click **"Update"**. When the interface address pops up: the default address is **"0"**, after clicking OK, the update progress will be displayed until the update is successful, and the printer will be restarted after the font library is updated.



7.5 Tool setup

(1) Print setup

Click "**Set printer**" to pop up the following window, you can change the basic parameters in the print setting interface.

The screenshot shows a window titled "Set Printer" with a close button (X) in the top right corner. The window contains a tabbed interface with the following tabs: "Printer Parameter Setting" (highlighted with a red box), "Location", "Test", "Ethernet", "Wifi", "Bluetooth setting", "CodePage", and "U". The "Printer Parameter Setting" tab is active and displays the following settings:

- Automatic position when power on: Disable (dropdown menu)
- Paper Type: Label (dropdown menu)
- Print Speed: 4 (dropdown menu)
- Print Quality: 2 (dropdown menu)
- Darkness Setting: 2 (dropdown menu)

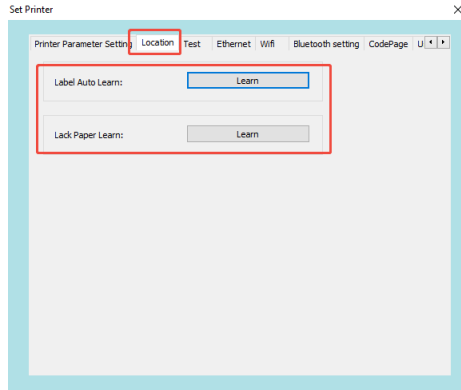
Below these settings is a "Set" button. Further down, there are two sections for label positioning:

- Black Label:**
 - +: 50 (input field), (0~99)mm, Set button
 - : 5 (input field), (0~5)mm, Set button
- Point(x,y):**
 - x: 50 (input field), (0~99)mm, Set button
 - y: 50 (input field), (0~99)mm, Set button

(2) Label calibration

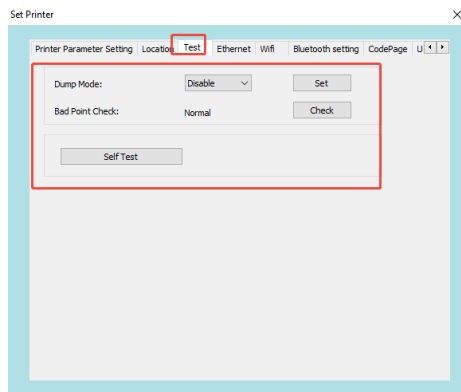
When the printer is ready, switch to the label calibration interface (as shown in the figure below) :

- **Label Auto Learn:** by learning to identify the size of the loaded paper;
- **Lack Paper learn:** It can solve the problem that when there is no paper or the learning label cannot find the seam mark, click the lack of paper learning in the case of no paper and close the cover. Finally, reload the paper for automatic label learning.



(3) Print test

Print the test interface as shown in the figure below.



- **Print self-test page:** When the printer is initially installed or there is any problem with the printer, you can click "Print Self-test page" to confirm the firmware version, printer parameter setting status, print quality and related Settings of external devices.

(4) Ethernet Settings

On the Ethernet interface, you can set Ethernet parameters.

- Set the IP address of the printer to 192.168.1.87, and set the communication port.
- Set the subnet mask of the printer to 255.255.255.0.
- Set the gateway of the printer to 192.168.1.1.
- Set the DHCP function of the printer. The DHCP function of the printer is disabled by default, and can be enabled if necessary. Let the printer automatically get the IP address.
- Set the MAC address and the network transmission rate.

⚠ Note: Before setting the URL, if the printer is connected in the following two ways: "One" uses "Network port", "two" print the IP address in the driver mode, after changing the IP address, the printer's IP address has been changed. In this case, the printer is disconnected from the tool. You need to reset the IP address of the tool to connect to the printer. Other connection methods have no effect.

The screenshot shows the 'Set Printer' dialog box with the 'Ethernet' tab selected. The 'IP' radio button is chosen, and the IP address is set to 192.168.1.87. The Sub Mask is 255.255.255.0 and the GateWay is 192.168.1.1. The Port is set to 9100. The DHCP function is set to 'Disable'. A red rectangle highlights the IP, Sub Mask, and GateWay fields.

Field	Value
IP:	192 . 168 . 1 . 87
Sub Mask:	255 . 255 . 255 . 0
GateWay:	192 . 168 . 1 . 1
Port:	9100
DHCP:	Disable

(5) WiFi Setup (For Bluetooth Printers Only)

Printer WiFi parameter Settings

- Open the downloaded "RTMobileLabelPrinterTool";
- According to this setup tool manual, first make sure to connect the printer;
- Open the setup tool and select "WiFi";
- Enter the SSID (the name of the wireless) to which the printer is to connect, and the corresponding mode;
- Enter the wireless encryption type, and enter the WiFi password, for example: add wireless "rdhz", password encryption type is WPA-PSK, and enter the wireless password, click "Set";
- After clicking "Set", the printer will print out the set wireless parameters. Please print the self-test page to check the printed wireless parameters. Compare with the router, if correct, please wait patiently, the printer will connect to the wireless network within 1 minute, if the printed none. The line parameters are different from those on the router. Please reset them and repeat the preceding steps.



Note: The default IP address of the printer is 192.168.1.87. If the IP address of the printer and the IP address of the wireless router are not in the same network segment, you need to set the IP address of the printer so that the IP address of the printer and the router are in the same network segment.

Set Printer

Printer Parameter Setting Location Test Ethernet **Wifi** Bluetooth setting CodePage U

SSID: Mode: STA

☐ OPEN(No Keys)

☐ WPA-PSK/WPA2-PSK

Type: WPA-PSK Encryption: TKIP

PSK Key:

☐ WEP

Type: OPEN Key:

Set

(6) Bluetooth Settings

If the printer has Bluetooth function, you can set the parameters of Bluetooth.

- First press and hold the printer's [FEED button], then turn on the machine, and print out the printer's self-test page. From the self-test page, find the printer's Bluetooth pairing name and password;
- If necessary, you can modify the Bluetooth pairing name and password, this time to use the "label printer tool" in the "Bluetooth Settings" function, as shown in the following figure;
Enter the "device name" and "Pin" of the printer Bluetooth to be modified, and click "Settings". After the printer is restarted, the Settings are changed successfully.(The device type needs to select Android or IOS system, if it is IOS system Pin needs to be set to 6 characters, if it is Android system Pin set to 4 characters);Open the main device and search for external Bluetooth devices;
- Find the Bluetooth printer you just modified, enter the corresponding password, and complete the pairing. The printer must be turned on when pairing.

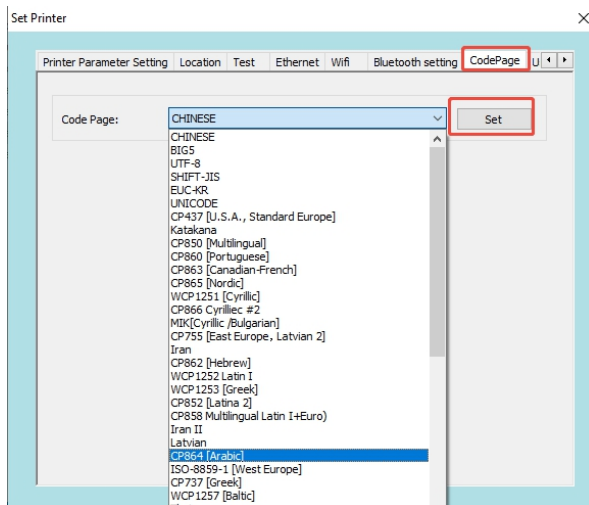
⚠ Note: When pairing, do not turn on multiple printers at the same time, otherwise you may not be able to determine which printer is successfully paired.

The screenshot shows a software window titled "Set Printer" with a close button (X) in the top right corner. The window contains several tabs: "Printer Parameter Setting", "Location", "Test", "Ethernet", "Wifi", "Bluetooth setting", "CodePage", and "U". The "Bluetooth setting" tab is selected and highlighted with a red rectangular border. Within this tab, there is a sub-form with the following fields:

- "Device Type": A dropdown menu currently showing "ios".
- "Device Num": A dropdown menu currently showing "No. 1".
- "Device Name": An empty text input field.
- "Pin": An empty text input field.
- "Set": A button located at the bottom of the sub-form.

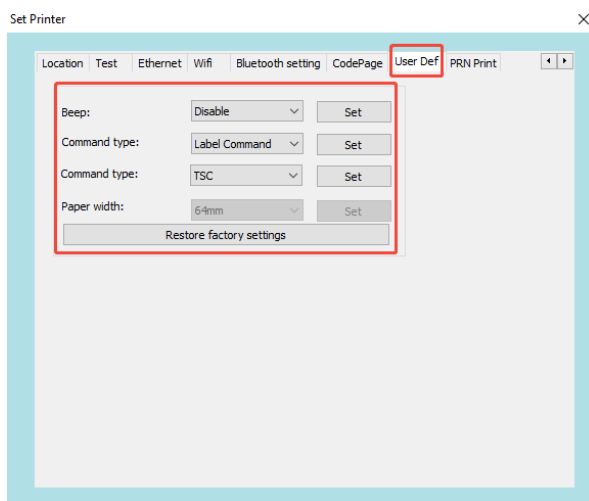
(7) CodePage setting

On the " **Code page** " setting screen, click the drop-down key to select the desired character set and click "Set".



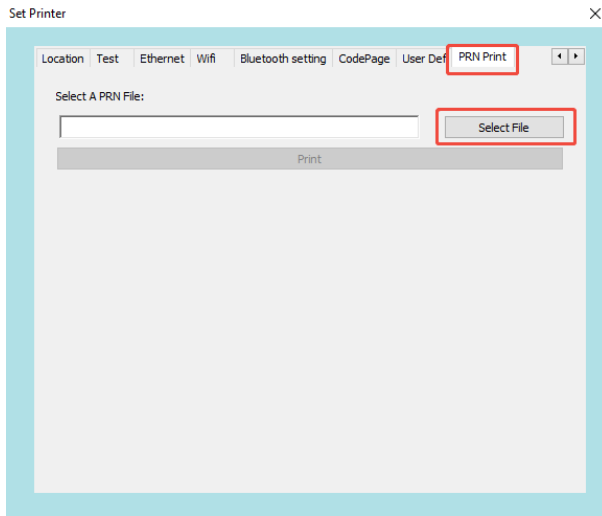
(8) User Def

Switch to the " **User Def** " interface, as shown in the following figure, you can set " **Beep** " on and off, " **Command type** ", " **Restore factory Settings** ".



(9) PRN print

Click "**Select File**", select a PRN file and click "**Print**" to print the PRN file.



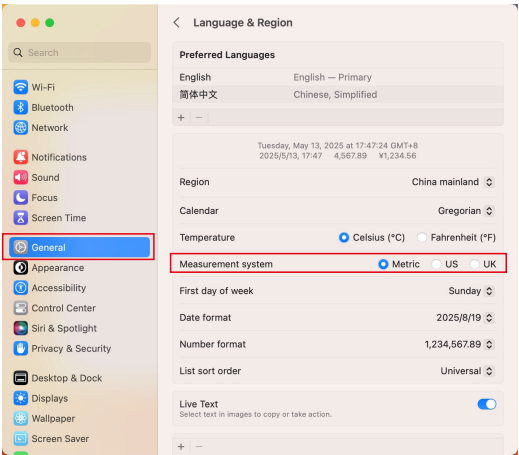
Note:

For the interface settings in the printer setup tool, please refer to the interfaces supported by the printer. The manual only provides an introduction to the full functionality of the setup tool.

VIII. Mac: Instructions for Using the Printer Settings Tool

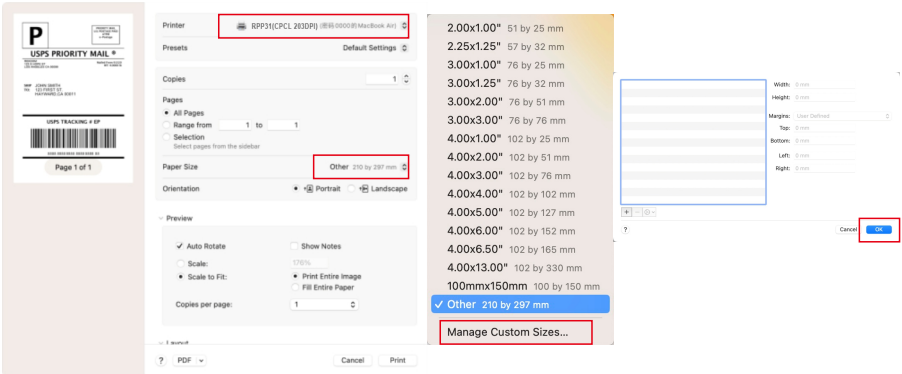
8.1 Mac setup printing

Unit Switching --> "General" --> "Measurement system".

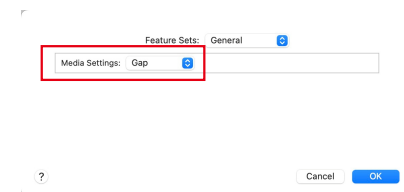
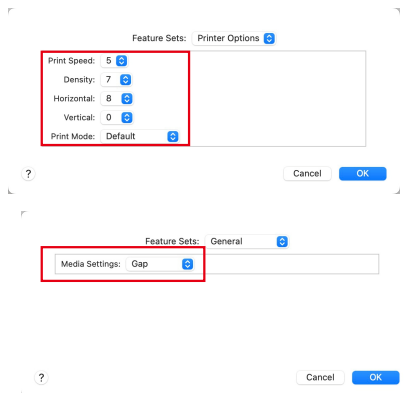
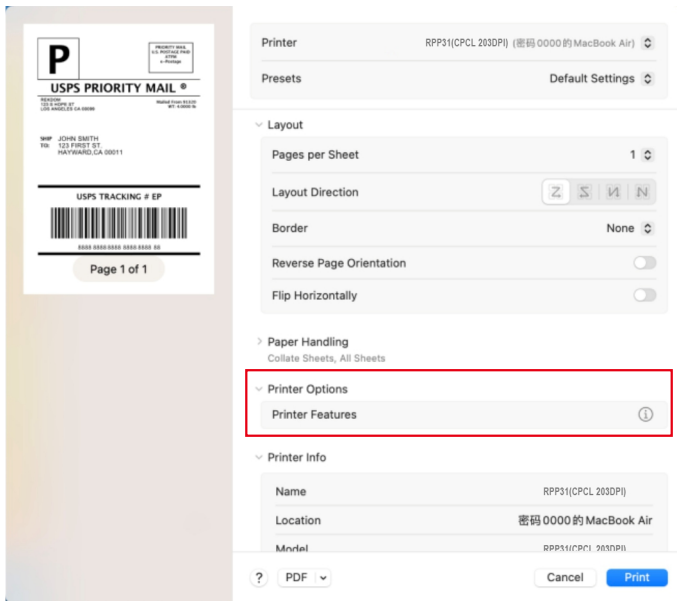


8.2 Paper Size Settings

Open the sample label to print, select **"RPP31(CPCL 203DPI)"**, and choose the paper size you want to print. For other sizes not listed, click paper size --> select **"Manage Custom Sizes..."** --> click "+" to add a new size. If you want to add a 70x130mm size, enter 70 for the width and 130 for the height. Double-click **"Untitled"** to rename it to 70x130mm > click **"OK"**.



Select **"Printer Options"** --> click the drop-down icon --> click **"Printer Features"** --> here you can adjust the print speed, density and media settings.



IX. Daily cleaning and maintenance

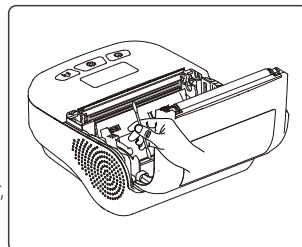
9.1 Clean print head

The print head should be cleaned when one of the following occurs in the printer:

- (1) The printing is fuzzy and unclear
- (2) A vertical column of the printed page is not clear
- (3) Large paper noise
- (4) Print hair black, carbon accumulation serious

Print head cleaning steps are as follows:

- (1) Turn off the power of the printer, open the cover, if there is paper, remove the paper;
- (2) If you have just finished printing, wait for the print head to cool completely;
- (3) Wipe the dust and stains on the surface of the print head with a soft cotton cloth dipped in alcohol;
- (4) Wait until the alcohol is completely volatilized, close the upper cover, and re-test the printing machine.



Clean print head schematic

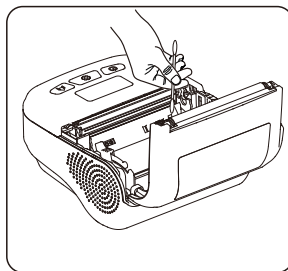
9.2 Cleaning sensor

When the printer has one of the following conditions, the paper sensor should be cleaned:

- (1) Paper identification error
- (2) Paper positioning is not allowed
- (3) Lack of paper does not alarm
- (4) Lack of paper
- (5) skip white paper, walk more paper
- (6) can not learn paper correctly
- (7) The paper is offset

Clean the sensor as follows:

- (1) Turn off the power of the printer, open the cover, if there is paper, remove the paper;
- (2) Wipe the dust and stains on the sensor surface with a soft cotton cloth dipped in neutral alcohol, as shown in the picture on the right;
- (3) Wait until the alcohol is completely volatilized, close the upper cover, and re-test the machine.



Clean sensor diagram

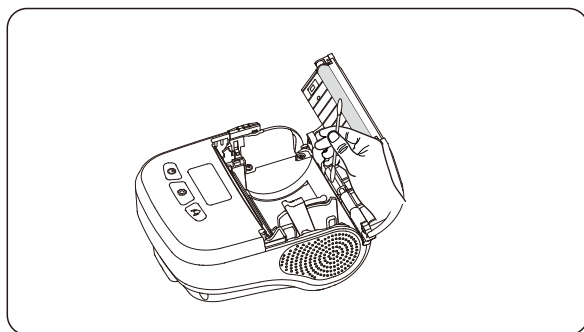
9.3 Clean the printer roller

When the printer appears one of the following conditions, the printer roller should be cleaned:

- (1) The printing is fuzzy and unclear
- (2) A vertical column of the printed page is not clear
- (3) Large paper noise
- (4) Print hair black, carbon accumulation serious

Printer roller cleaning steps are as follows:

- (1) Turn off the power of the printer and open the top cover;
- (2) Wipe the dust and stains on the surface of the printer roller with a soft cotton cloth dipped in neutral alcohol;
- (3) After the alcohol is completely volatilized, close the top cover.



Cleaning printer roller diagram

Note:

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

X. Troubleshooting

Fault phenomenon	Fault cause	Solution
Print only paper, no printed data	Printing paper roll inverted	Install the printing paper in another direction
1. The print is fuzzy and unclear 2. The printed page has a vertical column that is not clear 3. Big paper noise	Print hair black, serious carbon accumulation printer long-term cleaning leads to print head, rubber roller is polluted by dirt	Need to clean the print head and roller (Please refer to Repair and maintenance for cleaning procedures)
Continuous white paper	The seam mark is not identified	1. Press and hold the paper Walk key to learn labels 2. Go to the Settings page to learn labels



Note: If the fault cannot be removed, please contact the after-sales service hotline: 400 800 0596.

XI. 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. The device can be used in portable exposure condition without restriction.



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