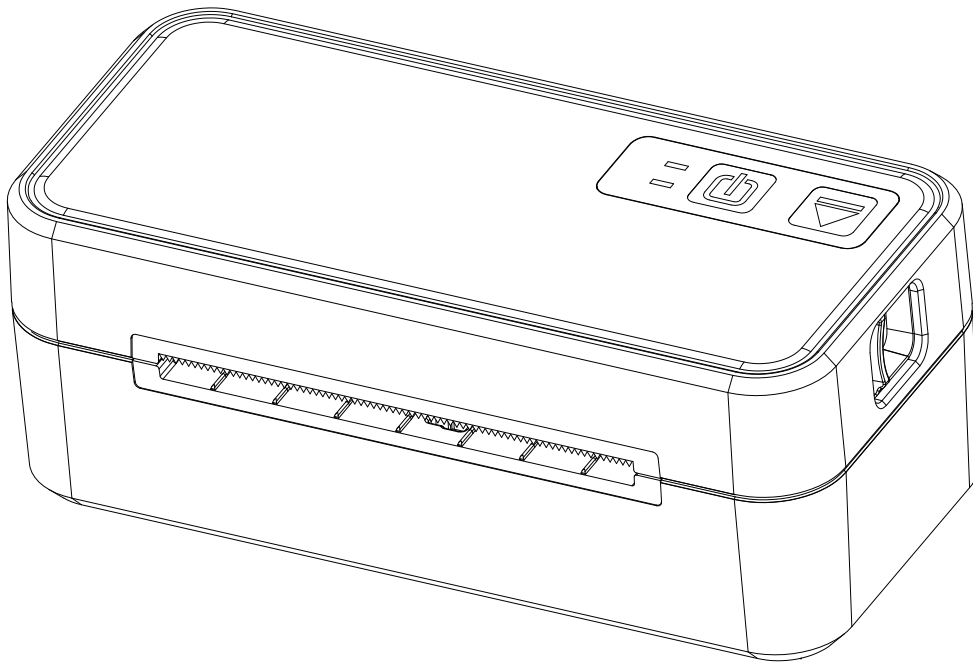


**THERMAL LABEL PRINTER**

# User Manual

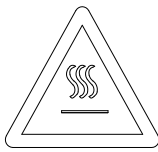


## Safety Warning!



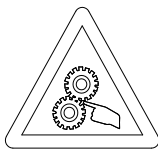
### (1) Caution! Sharp parts!

The paper-cutting blade has sharp edges. Please be careful not to touch it to avoid cuts.



### (2) Attention! Hot Parts!

After printing is completed, do not directly touch the print head to avoid being burned by overheating. After turning off the power, wait for half an hour before touching the print head. This product is not suitable for children.



### (3) Attention! Moving Parts!

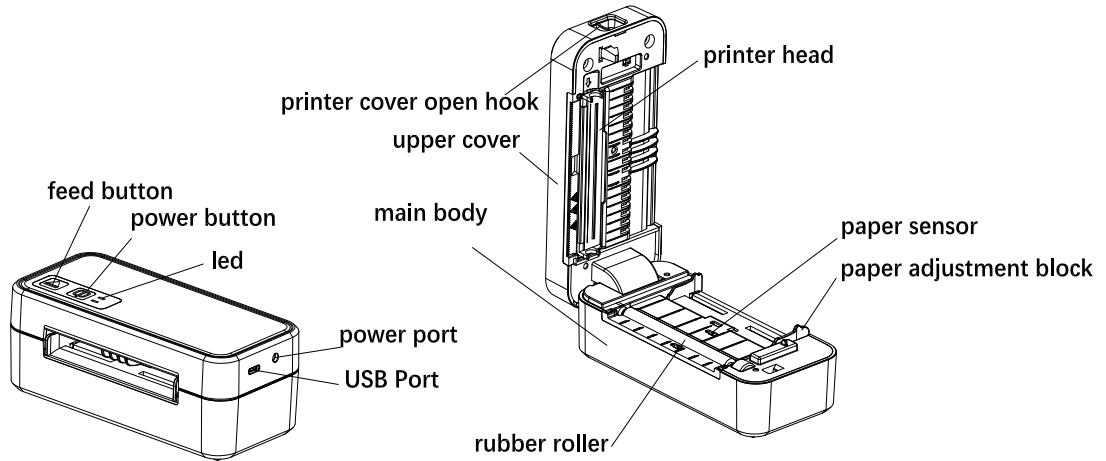
Keep your body away from the moving parts and be careful.

## Attentions!

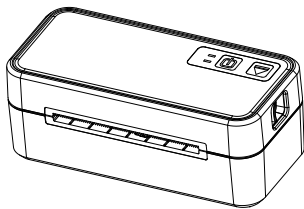
- (1) The printer should be installed in a stable place to avoid vibration and impact.
- (2) Do not use and store printer in places with high temperature, high humidity or heavy pollution.
- (3) Connect the printer's power supply to an appropriate ground socket. Avoid using the same socket as large motors or other devices that can cause voltage fluctuations in the power supply.
- (4) Avoid water or conductive material (such as metal) entering the printer and turn off the power immediately if this happens.
- (5) Keep the printer printing from without paper or else it will damage to the printer head and the rubber roller.
- (6) Please cut off the power supply if you will not use this printer for long time.
- (7) The user shall not dismantle the printer for maintenance or modification without authorization.
- (8) The power cord shall only be supplied with a randomly assigned power cord.
- (9) In order to ensure the quality of printing and product life, it is recommended to use high-quality printing paper.
- (10) When unplugging and connecting the power cord, make sure the printer power is off.
- (11) The power cord plug acts as a power disconnect device and its socket is located near the device and is easily accessible.
- (12) This product is only suitable for use in tropical climate at an altitude of 5000 meters and below.

# Chapter 1 Product Introduction

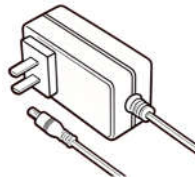
## 1.1 Printer Appearance



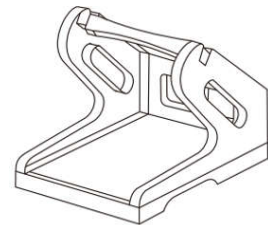
## 1.2 Printer accessories (packing list)



Printer \* 1pcs



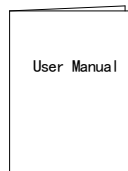
Adapter \* 1pcs



Paper holder\*1pcs (Optional)



USB Cable \* 1pcs



User Manual \* 1pcs



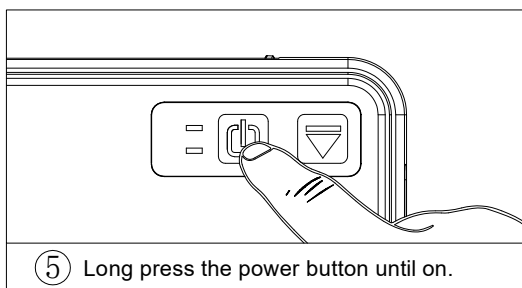
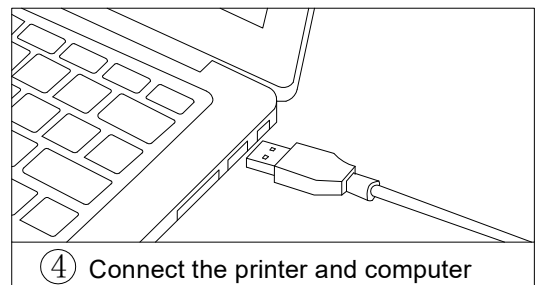
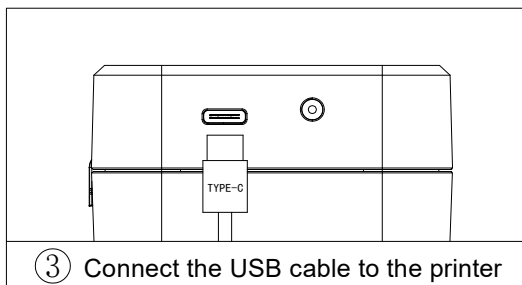
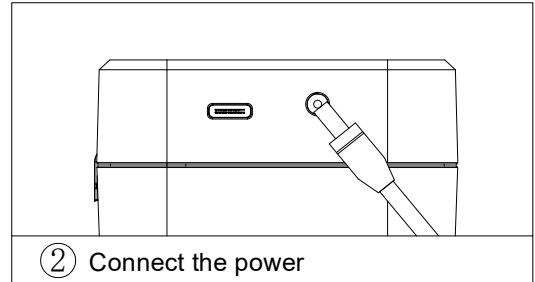
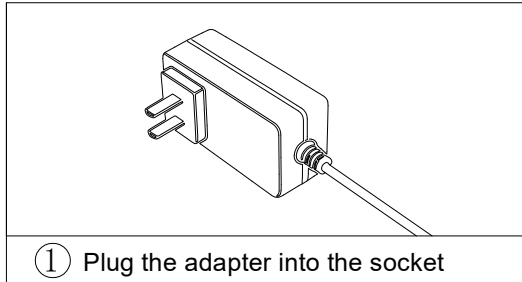
Testing paper \*10sheets

## Chapter 2 Performance Characteristics

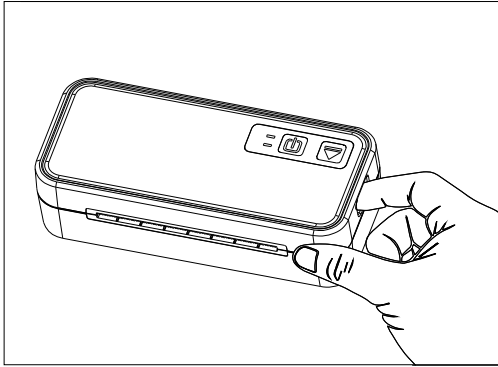
Printing Method	Thermal Printing
Printing Dot Matrix	640 dots/line
Resolution	203dpi (8 dots/mm)
Printing Speed (Max)	150mm/s
Paper Width	20~80mm
Printing Width	20~80mm
Supported Printing Types	English, Chinese characters, numbers, various symbols, graphics, curves, pre-stored icons, etc.
Barcodes	One - dimensional codes: UPC - A, UPC - E, EAN - 13, EAN - 8, ITF25, Code39, Code93, Code128, CODEBAR; Two - dimensional code (QR Code)
Communication Interface	USB + Bluetooth/ [Optional] + 4G [Optional]++Wifi [Optional]
Adapter	DC 24V/1.25A AC100 - 240V
Abnormality Detection	Front paper output detection/paper shortage detection/ high temperature detection/cover open detection
Paper Loading Method	Easy Paper Loading
Instruction Set	TSPL, CPCL
Paper Cutting Method	Manual Tearing
Appearance Dimensions	72.26*155.13*57.1mm
Weight	341g
Working Environment	Temperature 5°C - 45°C, humidity 20% - 90%
Storage Environment	Temperature - 25°C - 55°C, humidity 20% - 93%

## Chapter 3 Usage Method

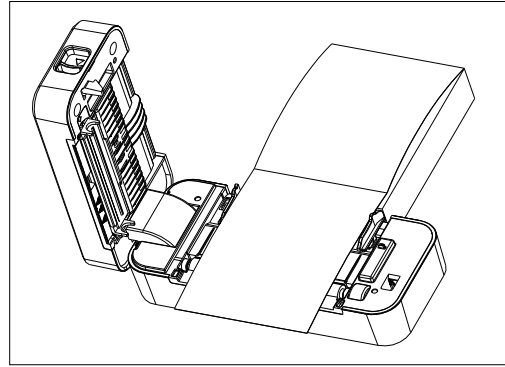
### 3.1 Printer Connection



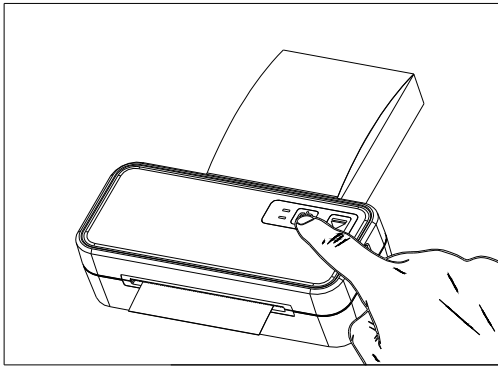
### 3.2 How to feed paper



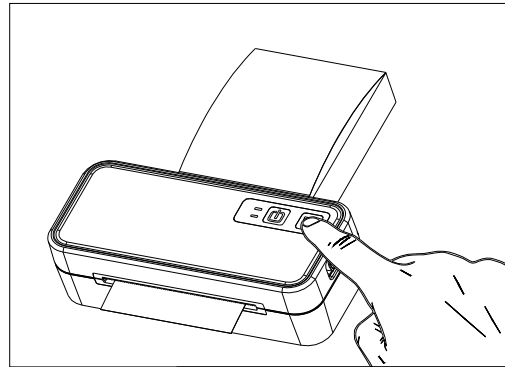
① Open the upper cover by pull the button



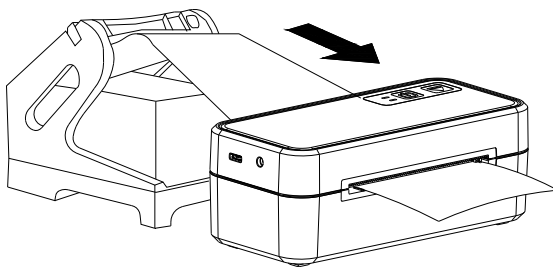
② Insert the fan-fold label or roll label from outside, adjust the paper guide to fit the width of paper.



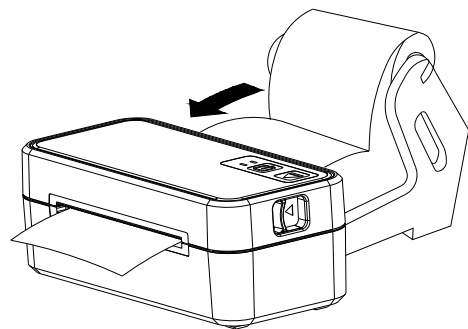
③ Close the cover, then long press the power button until on.



④ Long press the feed button until you hear tripe beeps, release your hand, the label calibrates automatically and then it will be positioned at the tear-off point, then ready to print.



Fan-fold Type Label Loading



Roll Type Label Loading

### 3.3 Printer connecting to cellphone APP via Bluetooth

(1) Scan the QR code on the card packed with the printer to download the app.

(2) Android terminal device: activate Bluetooth in cellphone setting to search for the corresponding printer, enter password "0000" to connect, once connected successful then open the APP to be ready for printing (you can edit content or use the available templates).

(3) iOS terminal devices: activate Bluetooth in cellphone setting, open the APP to directly search for the corresponding printer, select it and connected, once connected successful then the printer is ready for printing.

(4) Do remember that, the connecting method to the printer from android phone and from iOS phone is little different, please pay attention to it.

➡ For more details, please refer to the APP user's guide. This model printer support iOS phone and Android phone connecting via Bluetooth.

### 3.4 Printer connecting to computer via USB cable and Bluetooth, scan the following QR code to get the drivers

Win Driver


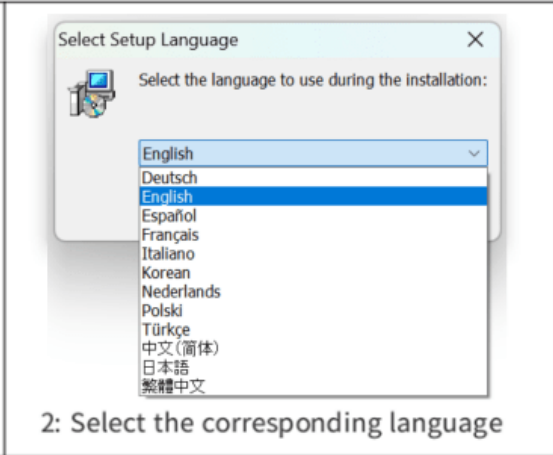
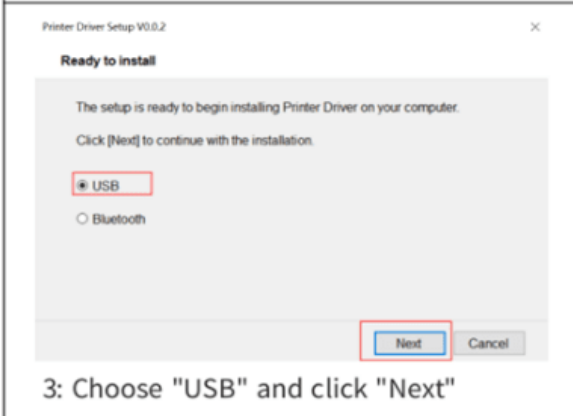
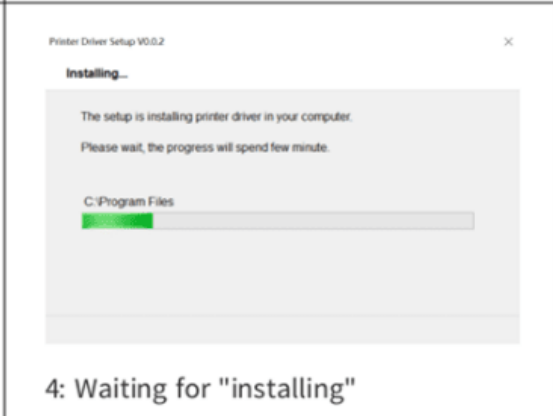
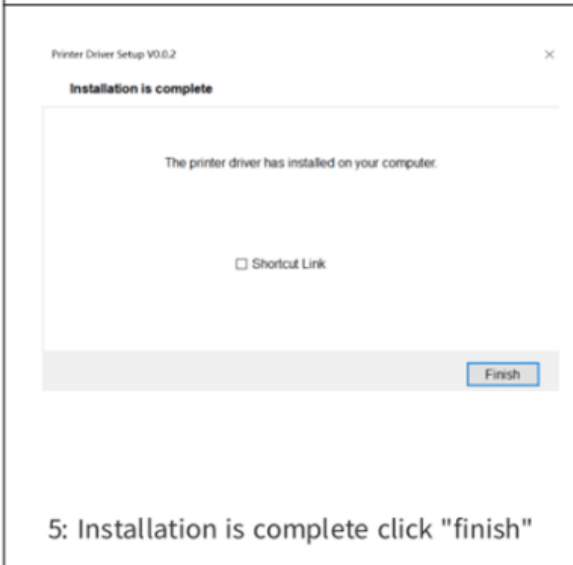



Mac Driver






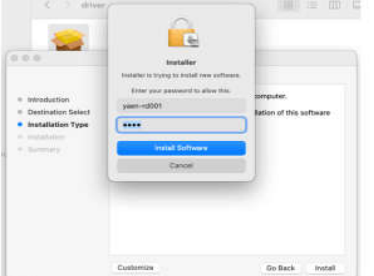
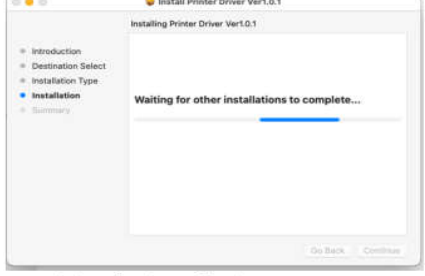
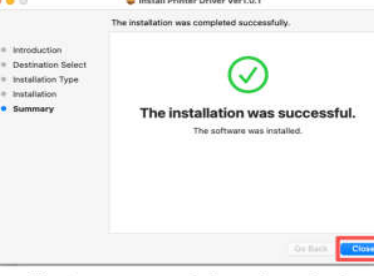
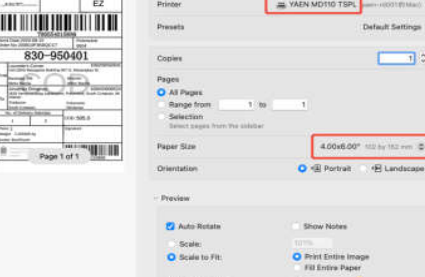
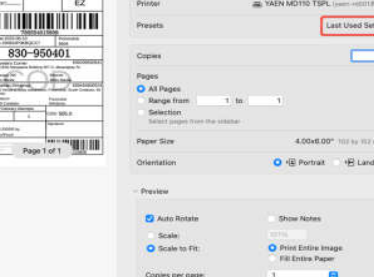
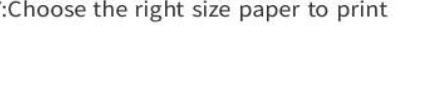
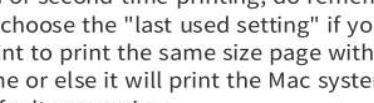
**(1) Printer connecting to computer via USB cable (windows system), MD110 as sample.**

- ① Scan the QR code above to download the corresponding driver.
- ② Refer to “3.1 Printer Connection” and make sure the printer connecting well accordingly.
- ③ Follow the steps below:

 <p>名称 .. (上级目录) Printer-Driver-Latest-V0.0.2.exe</p> <p>1: double click the exe file</p>	 <p>Select Setup Language</p> <p>Select the language to use during the installation:</p> <p>English Deutsch English Español Français Italiano Korean Nederlands Polski Türkçe 中文(简体) 日本語 繁體中文</p> <p>2: Select the corresponding language</p>
 <p>Printer Driver Setup V0.0.2</p> <p>Ready to install</p> <p>The setup is ready to begin installing Printer Driver on your computer. Click [Next] to continue with the installation.</p> <p><input checked="" type="radio"/> USB <input type="radio"/> Bluetooth</p> <p>Next Cancel</p> <p>3: Choose "USB" and click "Next"</p>	 <p>Printer Driver Setup V0.0.2</p> <p>Installing...</p> <p>The setup is installing printer driver in your computer. Please wait, the progress will spend few minute.</p> <p>C:\Program Files</p> <p>4: Waiting for "installing"</p>
 <p>Printer Driver Setup V0.0.2</p> <p>Installation is complete</p> <p>The printer driver has installed on your computer.</p> <p><input type="checkbox"/> Shortcut Link</p> <p>Finish</p> <p>5: Installation is complete click "finish"</p>	 <p>名称(N): Foxit Reader PDF Printer      名称(N): Fax      名称(N): Foxit Reader PDF Printer      名称(N): HP LaserJet Tank MFP 1005 wifi  <b>名称(N): MD110</b>      名称(N): MD110 (Bluetooth)      名称(N): Microsoft Print to PDF      名称(N): Microsoft XPS Document Writer      名称(N): OneNote for Windows 10      名称(N): POS55L Printer</p> <p>6: Ready your sticker and choose "MD110"</p>


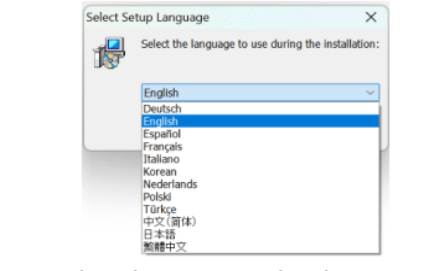
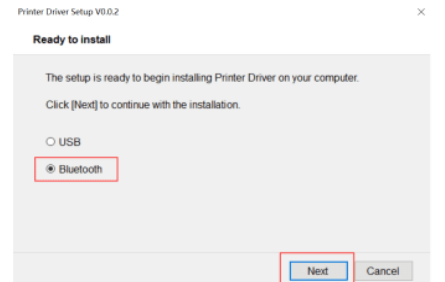
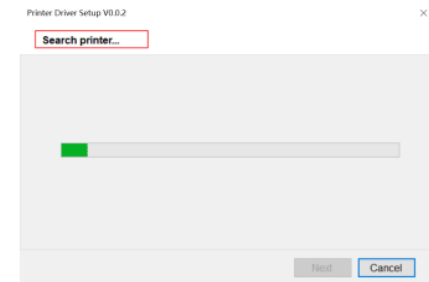
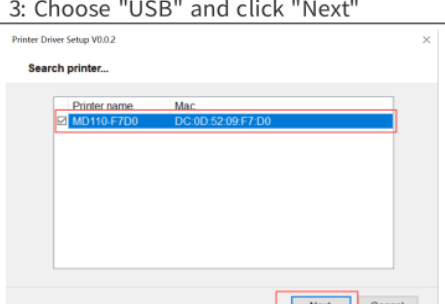
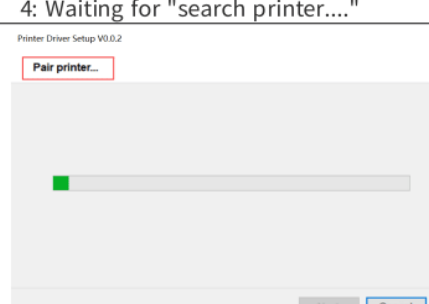
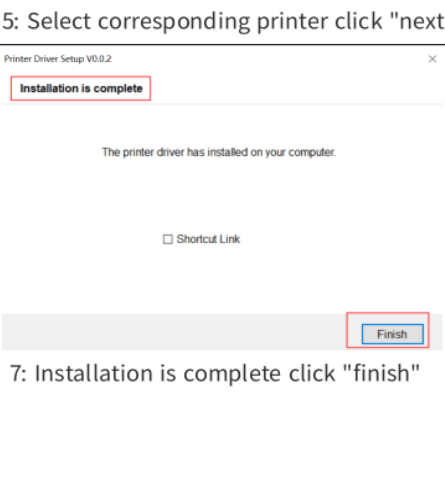
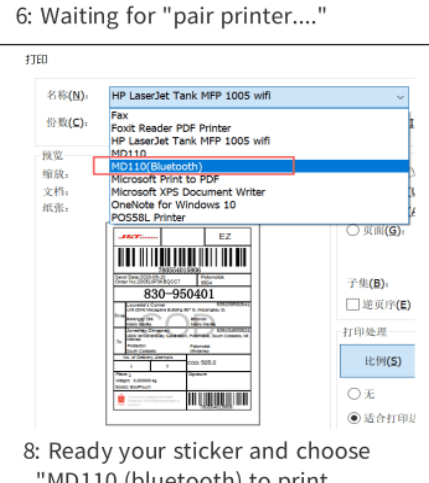
(2) Printer connecting to computer via USB cable (Mac system), MD110 as sample.

- ① Scan the QR code above to download the corresponding driver.
- ② Refer to “3.1 Printer Connection” and make sure the printer connecting well accordingly.
- ③ Follow the steps below:

 <p>Printer_Driver_Mac_V1.0.1.pkg</p>	
<p>1: double click the exe file</p> 	<p>2: Click "continue" to proceed</p> 
<p>3: Click "install" to proceed</p> 	<p>4: Enter you Mac account and Pin</p> 
<p>5: Waiting for installation</p> 	<p>6: Installation successful and ready for print</p> 
<p>7: Choose the right size paper to print</p> 	<p>8: For second time printing, do remember to choose the "last used setting" if you want to print the same size page with last time or else it will print the Mac system default paper size</p> 

**(3) Printer connecting to computer via Bluetooth (only for windows system but not support Mac system), MD110 as sample.**

- ① Scan the QR code above to download the corresponding driver.
- ② Refer to “3.1 Printer Connection” and make sure the printer connecting well accordingly
- ③ Follow the steps below:

 <p>1: double click the exe file</p>	 <p>2: Select the corresponding language</p>
 <p>3: Choose "USB" and click "Next"</p>	 <p>4: Waiting for "search printer...."</p>
 <p>5: Select corresponding printer click "next"</p>	 <p>6: Waiting for "pair printer...."</p>
 <p>7: Installation is complete click "finish"</p>	 <p>8: Ready your sticker and choose "MD110 (bluetooth) to print</p>

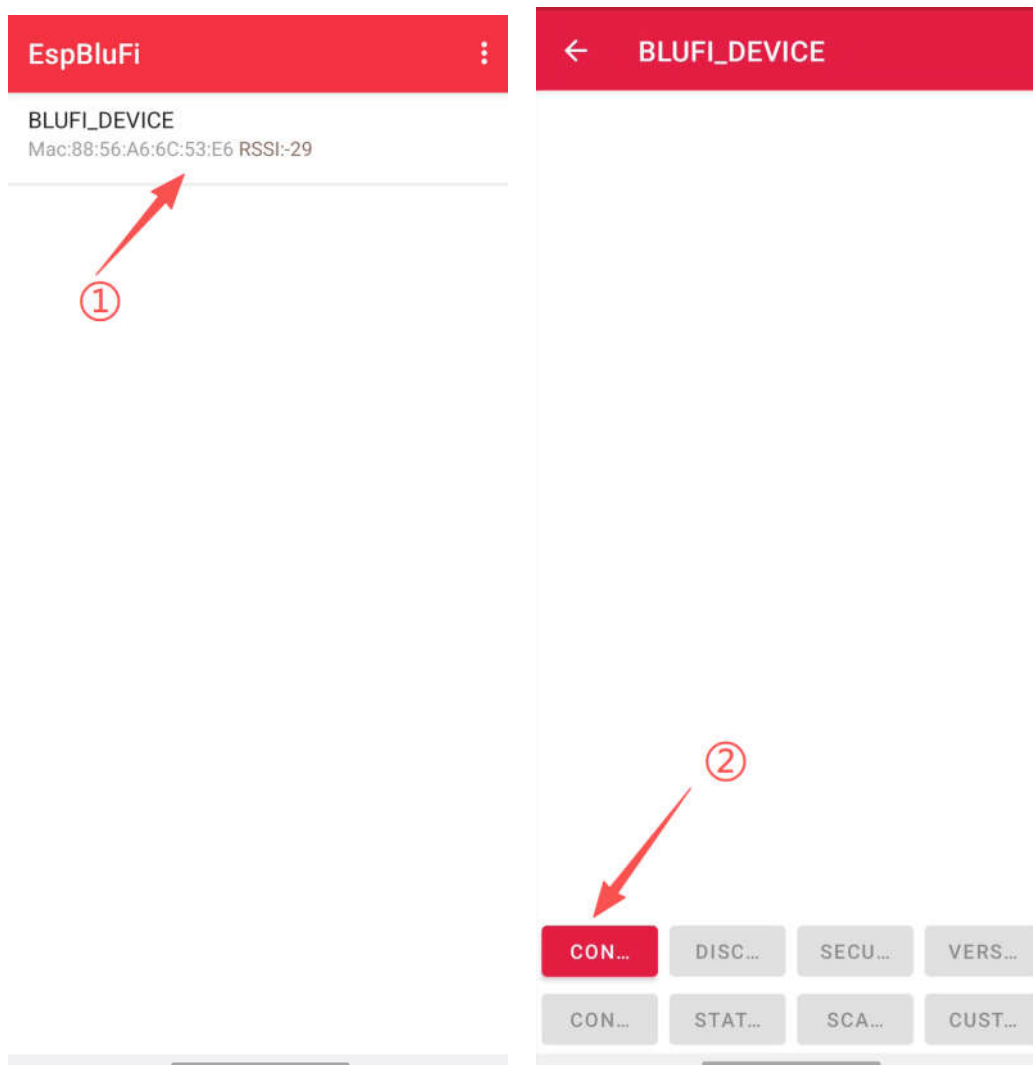
### 3.5 Wi-Fi pairing tutorial (MD80C as sample)

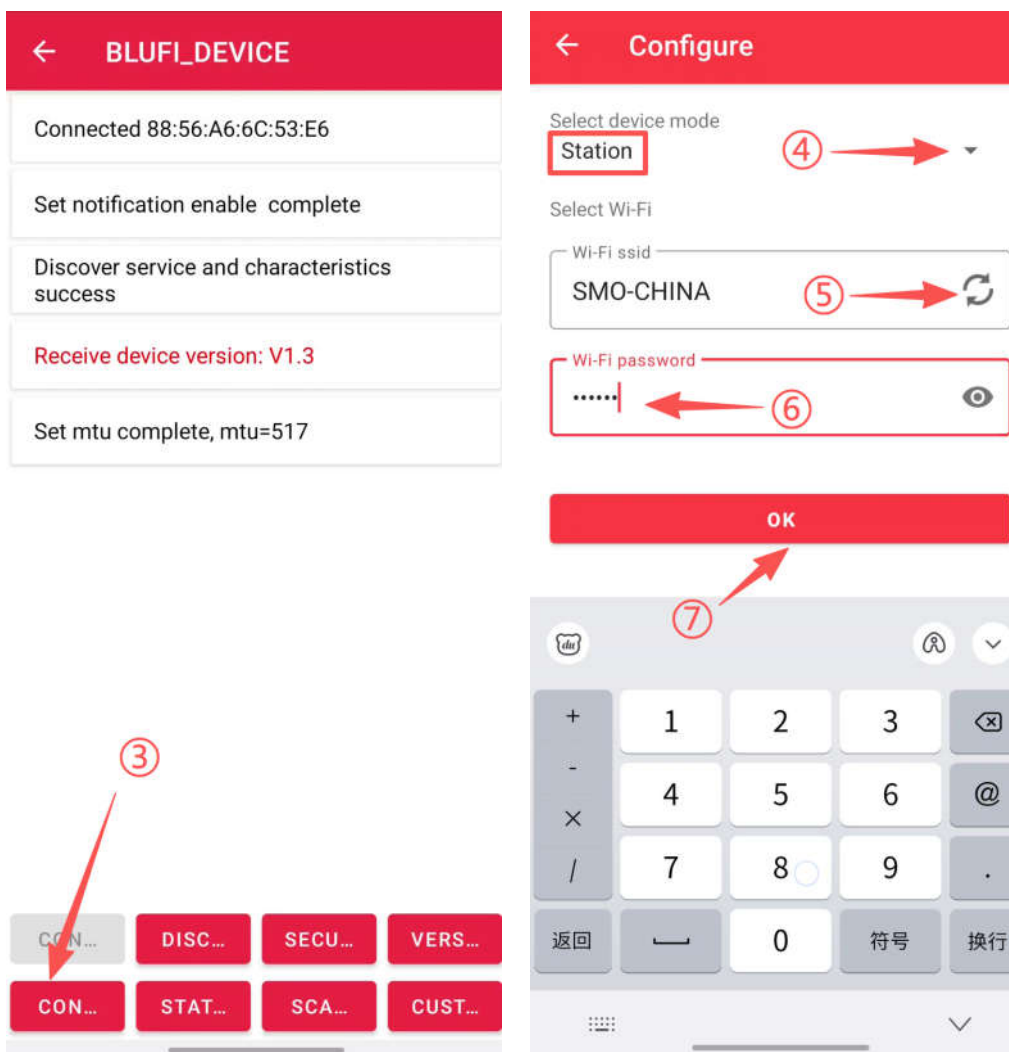
#### (1) Android phone Wi-Fi pairing tutorial

① Scan the following QR code to download application *EspBlufi* and install it in android phone



② Turn on the printer and open the application *EspBlufi*, search and connect to Bluetooth **BLUFI\_DEVICE**, enter SSID and password (see following), please be well noted that this model printer can only support WIFI of 2.4G but not WIFI of 5G.





(2) iOS phone Wi-Fi pairing tutorial

① Scan the following QR code to download application **EspBlufi** from Apple store and install it in iOS phone

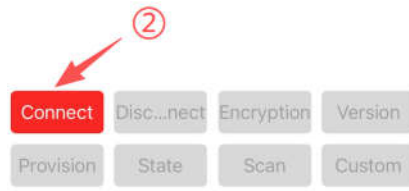


EspBlufi

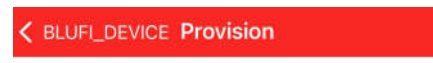
② Turn on the printer and open the application **EspBlufi**, search and connect to Bluetooth **BLUFI\_DEVICE**, enter SSID and password (see following), please be well noted that this model printer can only support WIFI of 2.4G but not WIFI of 5G.



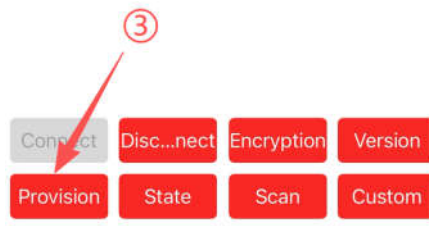
BLUFI\_DEVICE -40  
08B910AD-222E-4389-7B25-BE4B4762C525



Connected device  
BLUFI connection has prepared  
Receive device version: V1.3



OpMode (4) → **STA**  
Wi-Fi SSID  
SMO-CHINA ← (5)  
Wi-Fi Password ← (6) [icon]

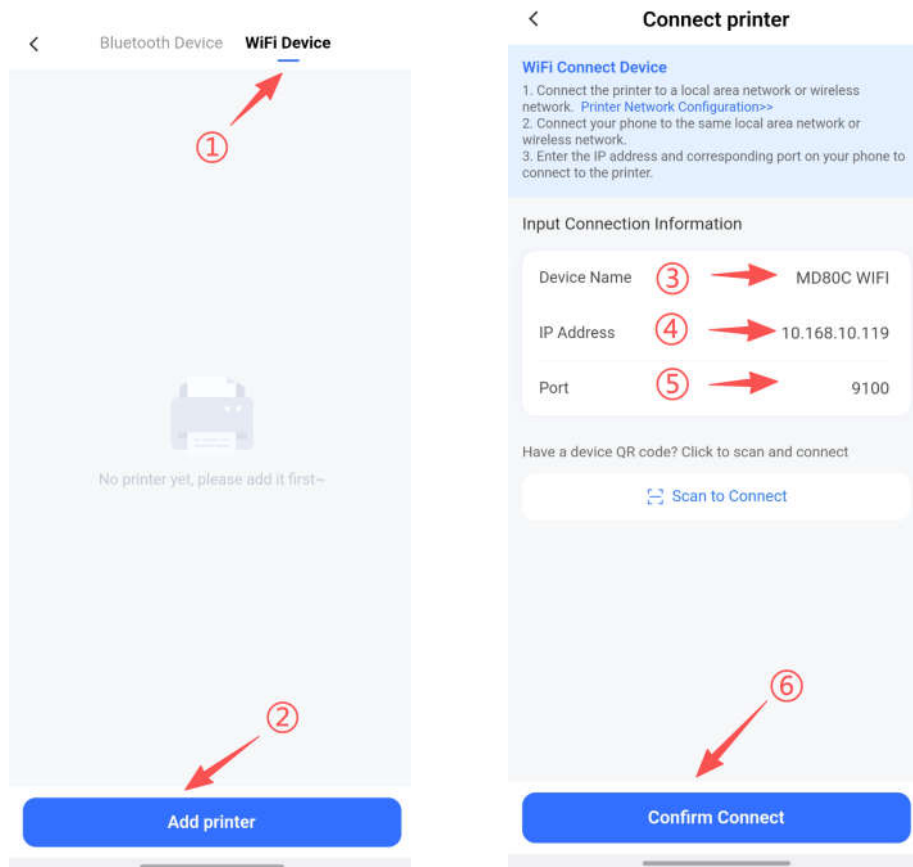


### 3.6 App-based Wi-Fi connection tutorial (MD80C as example)

#### (1) Print the self-test page and check the IP address



#### (2) Select the WIFI device, enter the model name, IP address, and port (default 9100)



(3) Select WIFI device for printing



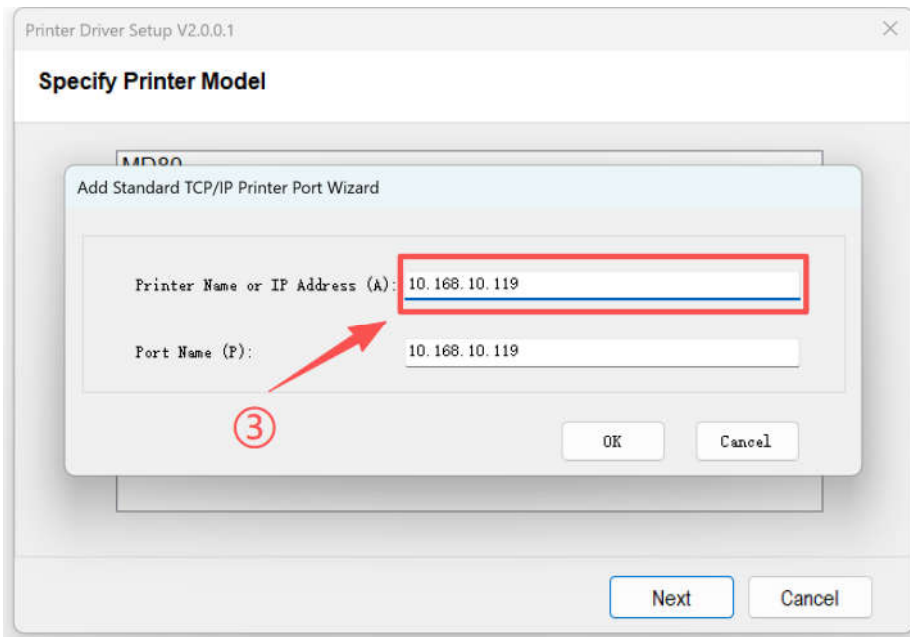
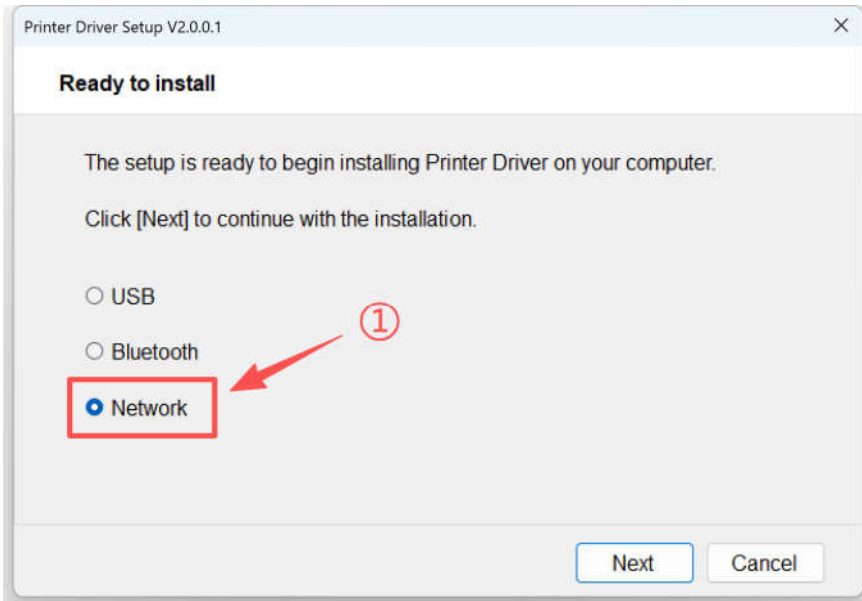
3.7 Windows driver-based Wi-Fi connection tutorial (MD80C as example)

(1) Print the self-test page and check the IP address

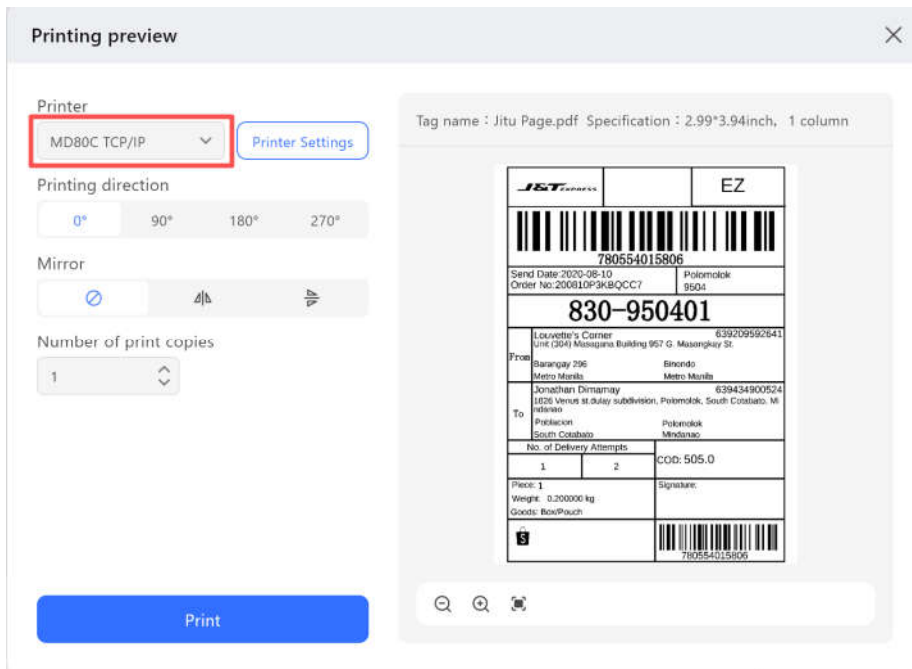


## (2) Add Network Driver

Run the driver package, select Network, choose the model, and enter the IP address.



(3) Select the network driver when printing

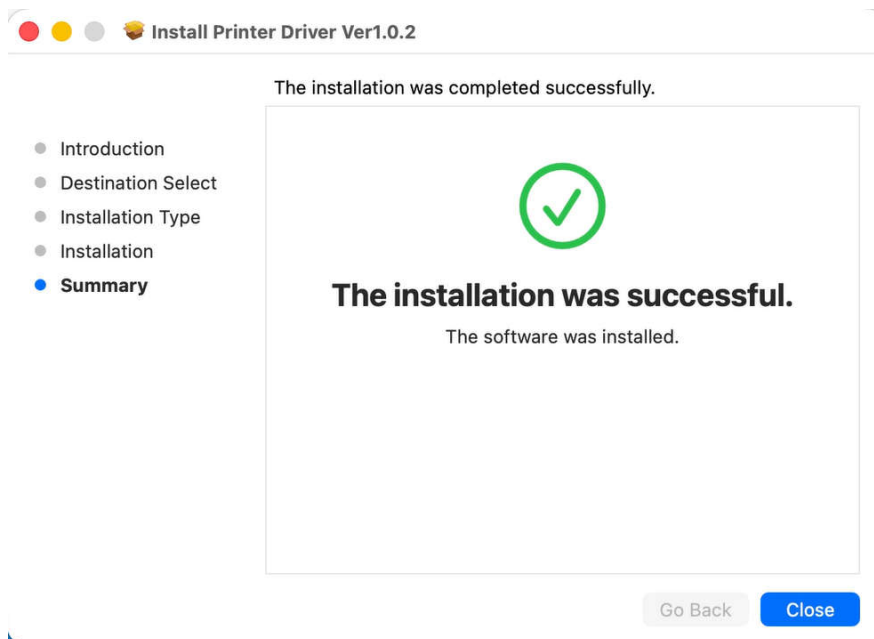
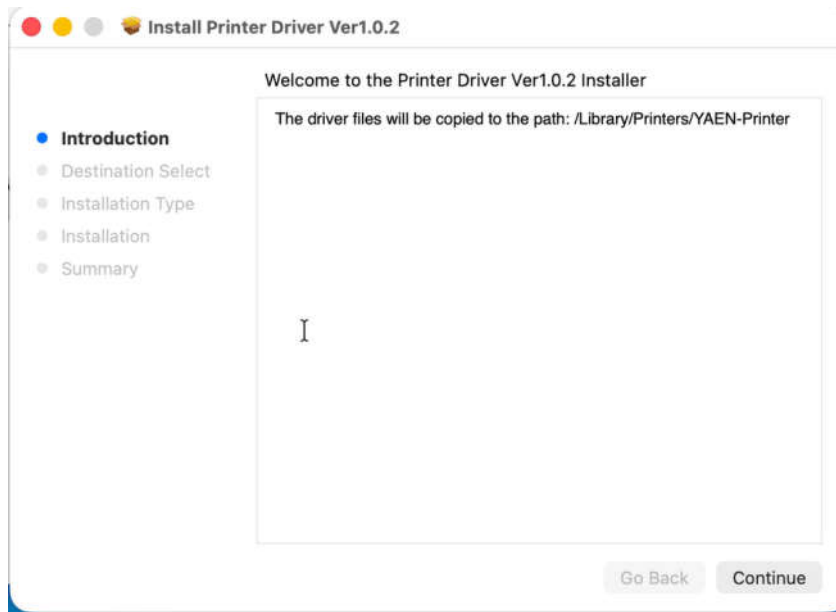


3.8 MAC manual driver-based Wi-Fi connection tutorial (MD80C as example)

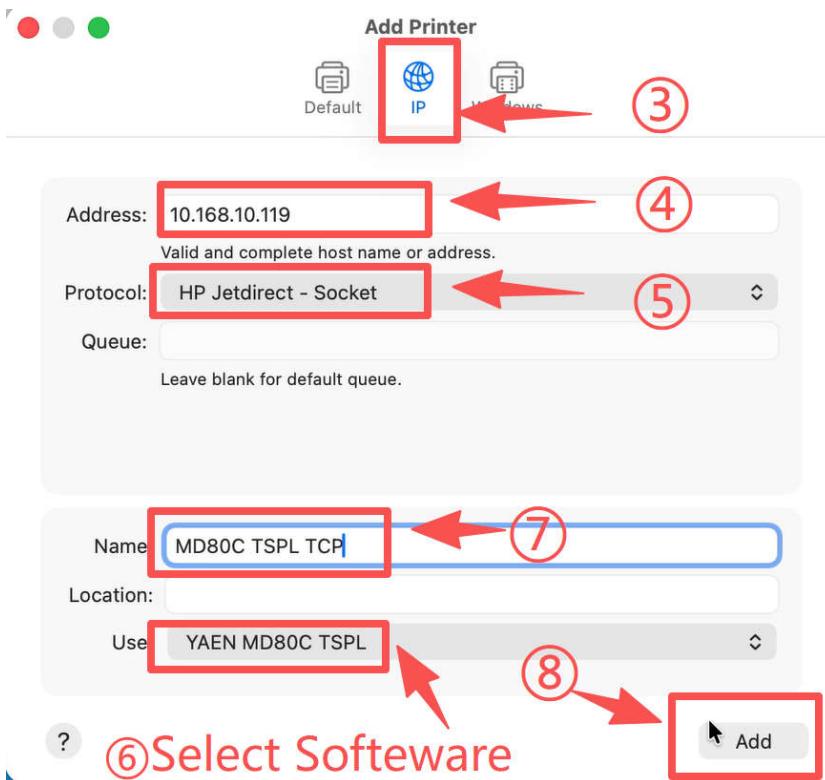
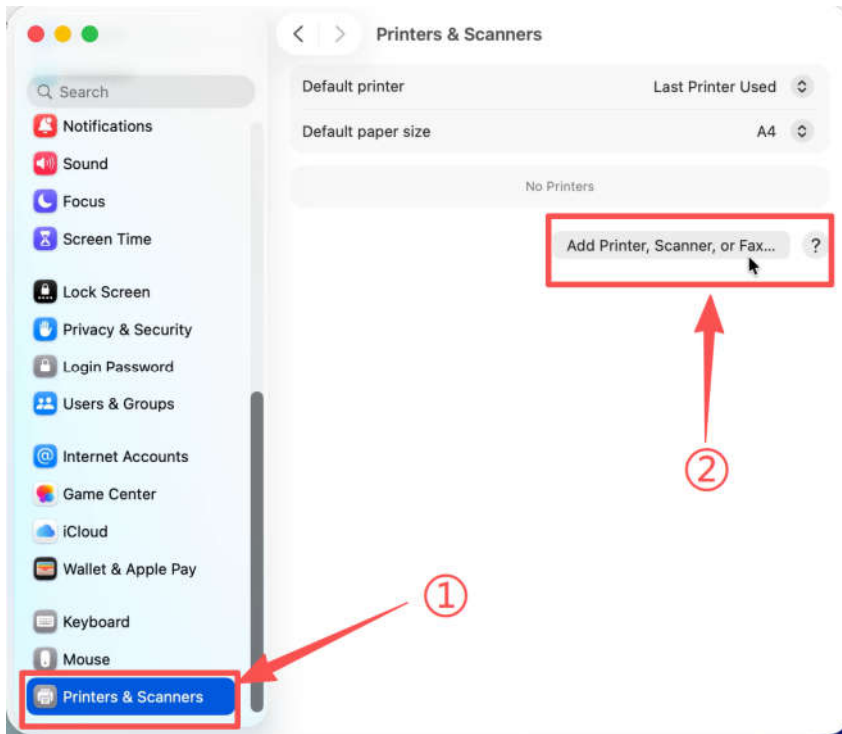
(1) Print the self-test page to view the IP address (based on the actual address) and the print model and protocol (example is MD80C TSPL)

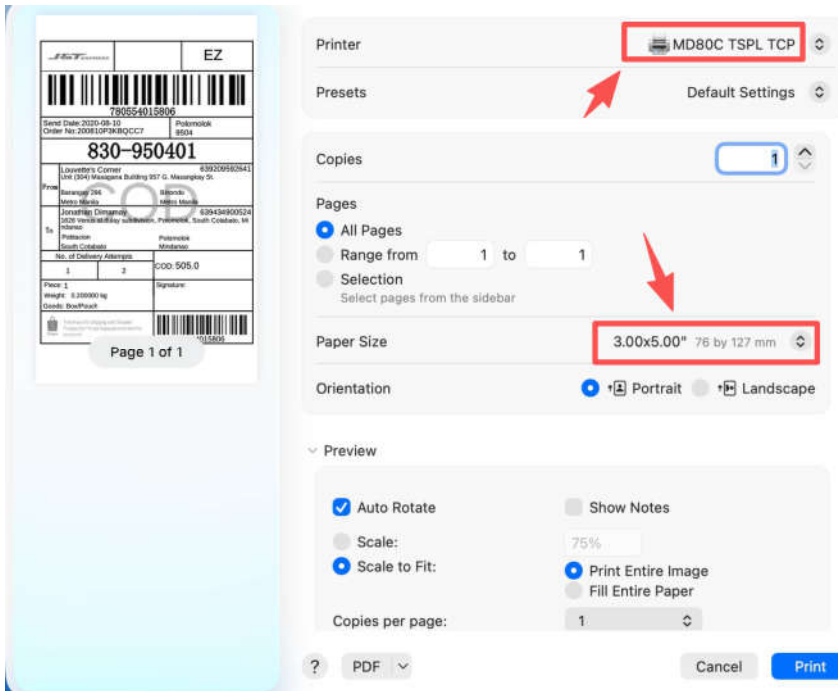
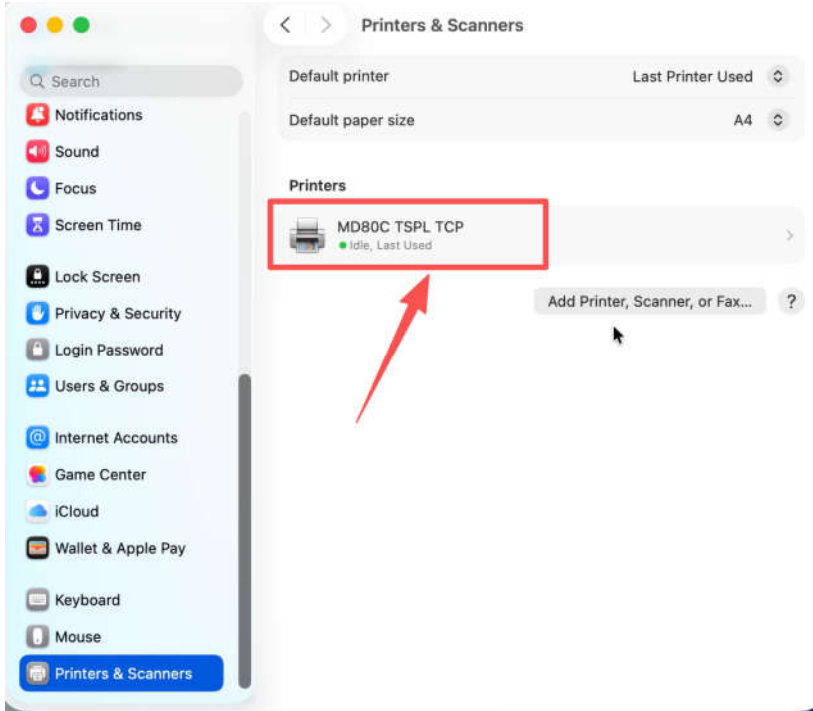


(2) Install driver



(3) Add network printers from “setting up”





## Chapter 4 LED indicator and Beep Signal Description

Machine Status	Bluetooth/Wifi Status	Indicator Light			Indicator Light	Indicator Light
		Green Light	Red Light	Blue Light		
Power On	Initialization Failed			Flashing		
Standby	Disconnected	Always On				
	Connected			Always On		
Cover Open	Disconnected		Flashing		Beep once every 2 second	
	Connected					
Paper Out	Disconnected		Always On		Beep three times every 2 seconds	
	Connected					
High Temperature	Disconnected		Fast Flashing			
	Connected					
Calibration		Flashing	Flashing	Flashing		Alternately Flashing
Firmware Update		Flashing		Flashing		Do not unplug the power during firmware update
Remarks						

## Chapter 5 Maintenance and Professional Tips

### 5.1 Printer Cleaning

When the printer has one of the following situations, the print head should be cleaned:

1. The print is not clear;
2. A certain column in the longitudinal direction of the printed page is not clear;
3. The paper feeding noise is loud.

The print head cleaning steps are as follows:

1. Turn off the printer power, open the upper cover, remove the paper if there is any;
2. If printing has just been completed, wait for the print head to cool completely;
3. Wipe the dust and stains on the surface of the print head thermal film with a soft cotton cloth dipped in anhydrous ethanol (should be wrung out);
4. After the anhydrous ethanol has completely evaporated, close the upper cover and test print again

### 5.2 Pro Tips

1. Anytime you'd like to change the label size, run the automatic label identification by pressing and holding the feeder button when the printer is on until you hear one beep and then two short fast beeping, then lose the button, after this the power & error indicator will blink, there will be two sheets of paper feed during the blinking, then the light turn green and ready for printing.

2. Press the feeder button on the printer to skip a blank label
3. To run a self-test: keep the printer on, long press the feed button until you hear a "beep" sound, then your printer will load one test label
4. Avoid using poor quality labels as they can damage the printer.
5. The power must be turned off during the daily maintenance of the printer.
6. Do not touch the surface of the print head with hands and metal objects to avoid damage to the print head caused by static electricity, etc.
7. Do not scratch the print head, print roller and sensor with tools such as tweezers.
8. Do not use organic solvents such as gasoline and acetone.
9. Wait until the anhydrous ethanol has completely evaporated before printing again.

## Chapter 6 Frequently Asked Questions (FAQs)

### 6.1 Why error light keep flashing in red?

- (1) Please check the printer cover, make sure the cover already be closed well.
- (4) There possible paper be stuck. Please try to clean the printer head with a clean cloth or Alcohol.

### 6.2 Printer keep triple beeping per two seconds, after three times triple beeping then silence, but the error light in red and always on.

- (1) Printer is out of paper, please load paper correctly to the printer.

### 6.3 Why printer print Blank Page?

(1) The paper peel-off side should be facing up when feeding the labels, this means you shall check if the paper was loaded in right way and right side.

(2) It's possible that the printer not recognize the label size correctly yet. Please do automatic label identification for the printer. Long press and hold the feed button on the top until you hear one "beep" sound, then release, the label will automatically move back and forth to load two labels. After this you check the printing again.

(3) To run a self-test: keep the printer on, long press the feed button until you hear a "beep" sound, then your printer will load one test label

### 6.4 Why the printer skip labels or continuously feed labels?

- (1) Please run the automatic label identification again (refer to 5.2 Pro tips-1 on page 12).
- (2) Your operating system is sending a longer label to the printer. Please ensure you have the correct label size:

For Windows

Go to the Control Panel -> Devices and Printers -> Right Click on Label printer -> Printer Preferences -> Page Setting Select 3x5 labels

For Mac

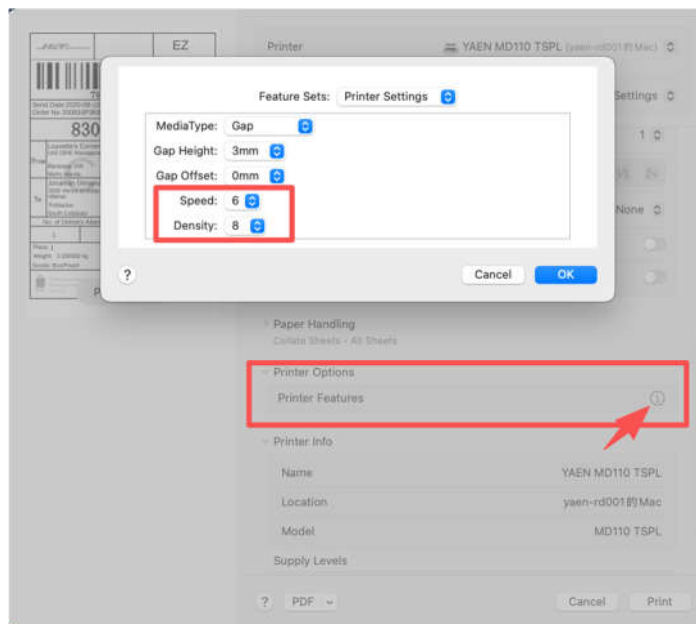
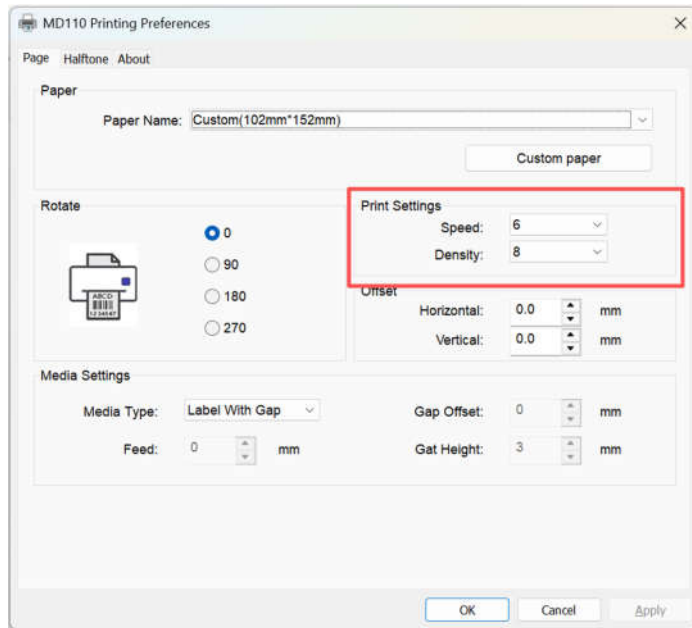
Go to Print setup-> select 3" x 5" size in the print prompt window

- (3) The last possible reason is that the sensor which detects the paper is affected by dust, if so, please clean the sensor with the alcohol swap or clean cloth.

### 6.5 Why labels come out unclear/ low ink/blurry?

- (1) Please try to clean the printer head with a clean cloth or alcohol. Make sure the printer head is clean.
- (2) It is suggested to print PDF files but not photos as Printed PDFs are better quality than photos. If you must use photos, you should use high-quality images.
- (3) Print density and speed.

Within your printer preferences, you can set your "Density" and "Speed". You can change the density to a larger number, it will help. for windows, 8-12 is recommended (see first picture ) ; for mac 8-14 is recommended see second picture ) , for mobile devices 6-8 is recommended.



(4) Page size

Please make sure the label you print is 3\*5 inches in size. If your label is in full size (8.5\*11, that is A4 size), please crop your label using "Take a snapshot" in Adobe Reader.

(5) Margins

Please make sure the content takes up the whole label. If your generated label has too much extra borders, then your design may be "shrunk" printed in a smaller size and resulting in fade content.

**6.6 Barcode came out some black blocks/ thick?**

(1) Set the print density value to about 4 in Preview (Mac system)

Please note: If you use the PDF software of Preview, the font and barcode are deepened automatically.

(2) Open the PDF file via Adobe Reader to print, the density value is 8-12

(3). For windows, go to label printer-manage-printing preference-page setup-density-(8-12)

**6.7 Printer stop printing suddenly**

Printer maybe working too long time and the head is overheated, wait for the printer head to cool down then start to print again.

**6.8. Printer don't proceed printing after printer command sent?**

Check if the printer is connected well and the power indicator light is in green, then check if you choose the right printer driver.