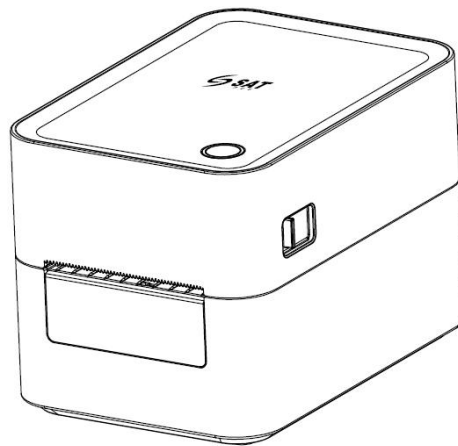




# SAT DTL58 UE



## User Manual



[www.satpcs.com](http://www.satpcs.com)

Rev: 1.0

# Change Record

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## ■ Statement

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## ■ Copyright

Printed in China

1.0 Version

## ■ Warnings



Warning: The print head is a heating part. Do not touch the print head and surrounding parts during and just after printing.



Warning: Do not touch the print head and connection plug-in to avoid damage to the print head due to static electricity.

## ■ Special Reminder

1. Due to continuous improvement of the products, the specifications, accessories and procedures described in the manual are based on actual machines. And it may be changed without prior notice.

# Safety Instructions

Before using the printer, please read carefully the following safety consideration in case of bodily injury or equipment damage.

## 1.Safety warning



Warning — It must be observed to avoid injury to human body and damage to equipment.



Note——It gives important information and tips for printer operation.

## 2.Instructions



Warning: Violation of the following items may result in serious casualties.

1) Do not insert several plugs into a multi hole power outlet at the same time.

- This can cause overheating and fire.
- If the plug is wet or dirty, please dry or wipe it before use.
- If the plug does not match the power outlet, do not plug it in.
- Only standardized multi hole power sockets can be used.

2) You can only use the adapters supplied in this package.

- Using other adapters is dangerous.

3) Do not pull the plug by pulling on the connecting wire.

- This can damage the connecting wires, causing a fire or machine malfunction.

4) Do not plug or unplug the power plug when your hands are wet.

- You can be electrocuted.

5) Do not bend the connecting wire forcefully or place it under a heavy object.

- Damage to the connecting line may cause a fire.



**Note:** Violation of the following items may cause minor injury or damage to the equipment.

1) If you observe a strange smoke, odour or noise from the printer, unplug it before taking following measures.

- Switch off the printer and unplug the set from the mains.
- After the smoke disappears, call the dealer for repairs.

2) Install the printer on the stable surface.

- If the printer falls down, it may be broken and you may hurt yourself.

3) Use only approved accessories and do not attempt to disassemble, repair, or modify yourself.

- If you need these services, please contact your dealer by phone.

4) Do not let water or other foreign objects drop into the printer.

- If such an event occurs, please shut down and unplug Printer. Then contact the dealer.

5) Do not use the printer when it is out of order. This can cause a fire or an electrocution.

- Switch off and unplug the printer before calling your dealer.

6) Other considerations:

- Leave enough space around printer for operation and maintenance.
- Do not expose the printer to high temperatures, direct sunlight or dust.
- Do not use and store this product in places with high temperatures, high humidity, and severe pollution.
- Avoid placing this product in a place with vibration and shock.
- Connect the power adapter of this product to a suitable grounded socket to avoid using the same socket as large motors or devices that can cause fluctuations in power supply voltage.
- Switch off the printer POWER supply when it's not in use for a long time.
- To ensure print quality and product life, it is recommended to use recommended or

equivalent quality paper.

- Please switch off the POWER supply when connect/disconnect all the ports or it will cause damage to the printer control circuit.
- Keep this User Manual in a place which is easily accessible at all times.

### 3.Other Notes

Although we have been very careful in the preparation of this manual, some errors or omissions are inevitable. Our company is not responsible for any losses caused by anyone using the information in this manual. Our company and its subsidiaries shall not be legally liable for any damage, loss, expense, or expense caused by user or third party's failure to follow or ignore the operation and maintenance information and instructions provided by our company, resulting in product damage, malfunction, or misuse, as well as unauthorized modification, repair, or modification of the product. We do not assume any legal liability for damage or problems caused by the use of counterfeit our options, components, or unauthorized products.

### 4.WEEE (Waste Electrical and Electric Equipment)



This mark shown on the product or its literature indicates that the corresponding item should not be discarded at the end of its working life with other household waste. To prevent possible harm to the environment or human health from

uncontrolled waste disposal, please separate marked items from other types of waste and recycle them responsibly to promote the sustained reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office for details of where and how they can conduct environmentally safe recycling of such items. Commercial users should contact their suppliers and check the terms and conditions of purchase contracts. This product should not be combined with other commercial waste for disposal.



**Warning:** Operation of this equipment in a residential environment could cause radio interference.



## Chapter 1 Introduction

### 1.1 Packing List



Note:

1.Unpack the printer and keep the packing materials in case you need to ship the printer in the future.

2.Any damages exist, please contact the local dealer.



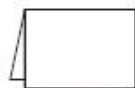
Printer



Power Adapter



Power Cord



Quick Start Guide



USB Cable



Roll Paper



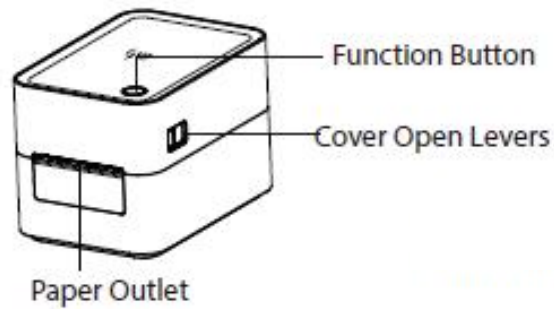
USB Flash Disk



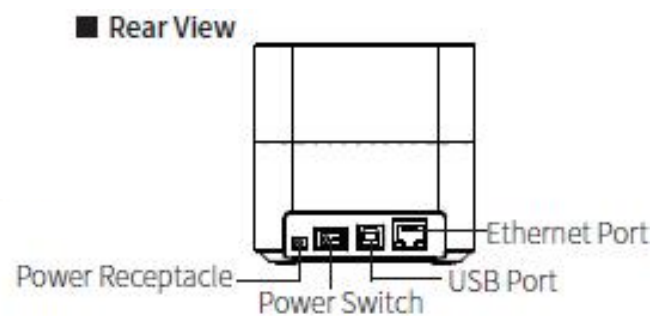
Note: The packing items are based on the order.

## 1.2 Appearance and Components

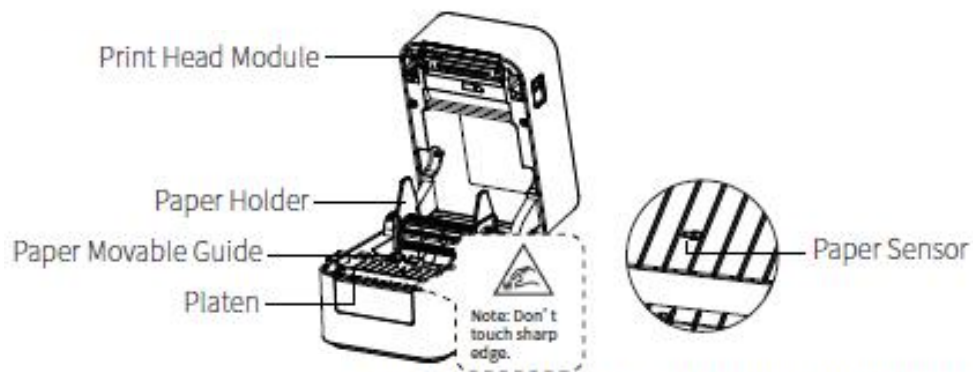
### ■ Front View



### ■ Rear View

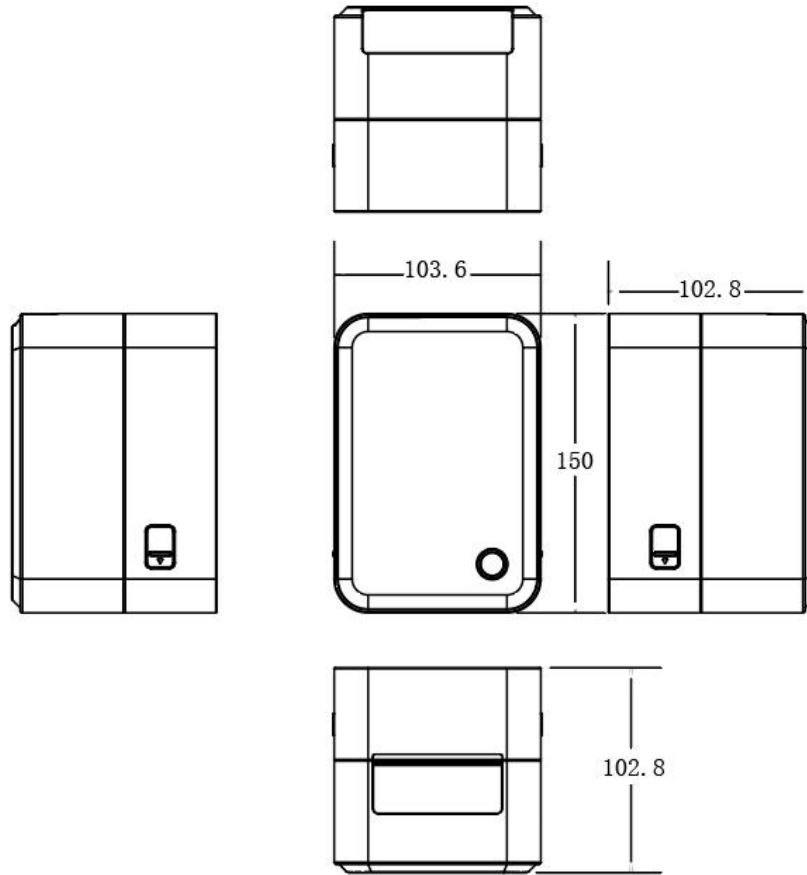


### ■ Inside View



**Note:** The views above are for your reference. Ports vary by your choice.

## 1.3 Dimension



## Chapter 2 Specifications

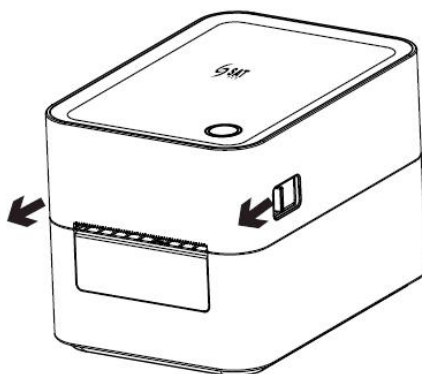
Item		Description	
Print Parameters	Print Mode	Label/Black Label Mode	Receipt Mode
	Print Method	Direct Thermal	
	Resolution	203 dpi (8 dots/mm)	
	Print Speed	76mm/s (203dpi)	100mm/s (203dpi)
	Print Width	2 inches (Max. 48mm)	
CPU		GD32EPRT	
Memory	RAM	$\geq 2\text{MB}$	
	Flash	$\geq 2\text{MB}$	
Detection	Sensor	Gap sensor, out-of-paper sensor, TPH overheating sensor, cover opening sensor, black mark sensor	
Print Media	Supplies Type	Label paper, black label paper	Continuous paper
	Label Width	20~60mm	
	Roll paper diameter	Max 80mm	Max 70mm
	Output Direction	Forward Paper Outlet	
Emulator/Programming Language		TSPL + ESC/POS or CPCL + ESC/POS	
Software	Driver	Windows Win7,8,10,11	
Communication Interface		USB Type-B, Ethernet, Bluetooth (optional), Wi-Fi (optional)	
Instructions and Operations		RGB three color indicator lights, 1 function button, and 1 rocker switch	

Item		Description
Power Supply	Power Adapter	Input: 100~240V, 50/60 Hz Output: 9V/1.5A (203dpi) ; 9V/2A (300dpi)
Environmental Parameters	Operation	32°F(0°C)-104°F(40°C), 10%-85%, non-condensing
	Storage	-14°F(-10°C)-140°F(60°C), 10%-90%, non-condensing
Physical Characteristics	Dimension(L*H*W)	150*103.6*102.8mm
	Weight	1.04kg
Reliability		TPH 30 KM
Options &Accessory		Quick start guide, USB cable, power adapter
Certification		CCC, SRRC, CE, EAC

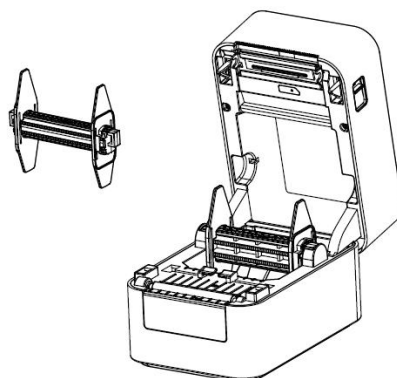
## Chapter 3 Installation & Usage

### 3.1 Paper Roll Loading

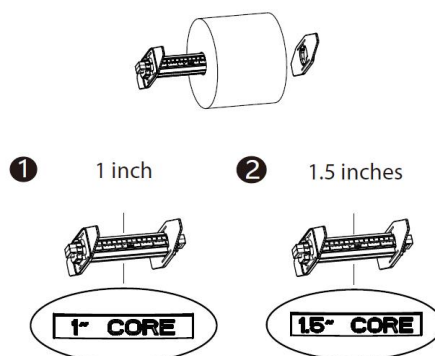
1. Press the cover opening button and lift the cover.



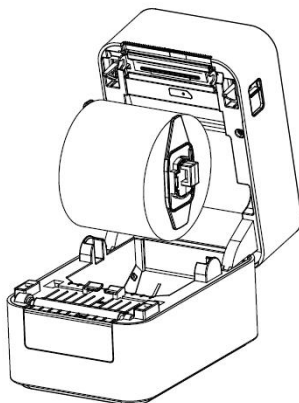
2. Take out the paper holder.



3. Load the paper roll to the paper holder according to the following appropriate size.

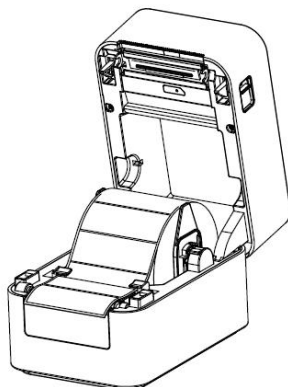


4. Load the paper holder back to the printer.



**Note:** Close the guide clip to the extent to which the label paper is fixed. Make sure the label paper is fixed, otherwise it will cause the handwriting offset when printing.

5. Pull the paper through paper guides and adjust the guides to fix the paper.

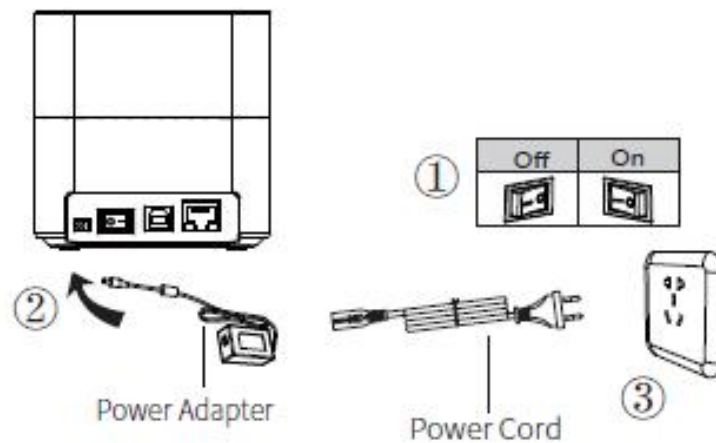


6. Close the top cover until it clicks into place, and confirm that it is locked.



## 3.2 Power Connection

1. Make sure the printer's power switch is in the "Off" position.
2. Connect the power cord to printer.
3. Connect the other end of power cord to the outlet.



Note:

- Use the original power adapter only. Avoid the damage caused by charging improperly.
- Please unplug the printer power cord if it is not in use for a long time.



## 3.3 Interface Connection

### 3.3.1 Interface Cable Connection

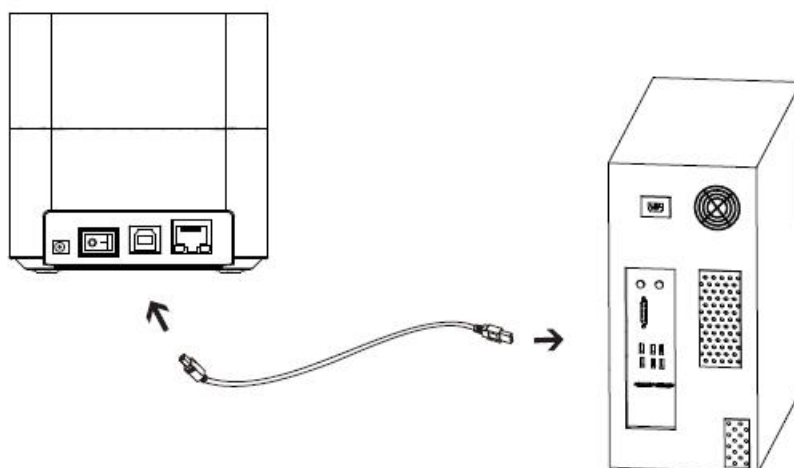
1.The printer supports the following communication interface standards:

--USB B-Type Cable

2.Installation steps:

1. Make sure the printer is turned off(O).
2. Please plug in the cables.

--Insert the USB B-Type cable into the USB (type B) interface.



## 3.4 Bluetooth/Wi-Fi Settings (only applicable to printers that support Bluetooth/Wi-Fi)

### 3.4.1 Bluetooth Settings

① Open the Herelabel APP, click on "Not Connected" in the upper right corner, view the "Bluetooth Device" list, find "Model - XXXXX" (X means the last four digits of the BT address), and click to connect.



Herelabel APP

2. Search on the Bluetooth interface of the mobile phone and select the corresponding device model. Note: Enter 0000 or 1234 if a PIN code is required.

3. Complete pairing.

Note: This setting is only available for models with Bluetooth functionality.

### 3.4.2 Wi-Fi Settings

The default Wi-Fi factory mode for the printer is AP mode. The IP address is 192.168.1.1, the SSID name is Model\_AP-XXXX (XXXX is the last four digits of the device serial number), and the password is 12345678.

After the PC or mobile phone is connected with printer successfully, users can do some parameter settings through utility tool.

**Note:** This setting is only applicable to models with Wi-Fi function.

## 3.5 Operation Panel

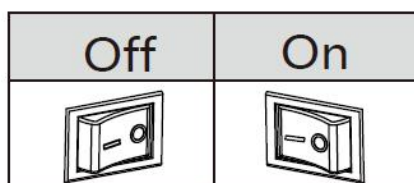
### 3.5.1 Button Operation (Power on/off)

#### ■ Power On

When power off, turn on the power switch at the back of printer, then the indicator will light on.

#### ■ Power Off

When power on, turn off the power switch at the back of printer, then the indicator will light off.



### 3.5.2 Indicator

Color	Action	Indicating Status
Green	Slowly flash	Function Button
Green	Slowly flash	Printer is starting up
Green	Always on	Printer ready (label mode)
Cyan	Always on	Printer ready (receipt mode)
Yellow	Always on	Printer ready (black label mode)
Red	Always on	The upper cover is not closed
Red	Fast flash	TPH overheating
Red	Slowly flash	Paper out
Red	Stop for 1 second	High/low voltage warnings
Red	Fast flash	Label calibration failed
Red	Slowly flash	Abnormal paper positioning

Note: Abnormal states (including cover opening, TPH overheating, paper out) have higher priority than all other states

### 3.5.3 Feed Button

■ When the printer is turned on:

- 1) Calibration and positioning (label/black label mode): press the function button once
- ① Feed the paper (receipt mode): press the function button once

### 3.5.4 Label Learning: (black label mode)

In the following cases, users can learn label location so that printers can better locate labels:

- The printer is installed and used for the first time;
- The printer is used for the first time after the sensor is cleaned;
- Re-use the printer after it has not been in use for a long time;
- Replacement of new types of roll paper;
- In the process of printing, the printer can not effectively identify the mark;
- The use environment of printer has changed greatly.

#### Calibration method:

1. Carry out the calibration manually:

When the printer is ready, press and hold the function button until the green indicator flashes twice.

2. Complete the learning through the printer Utility tool software:

Users can complete the learning through the printer Utility tool software, see the details in "Chapter 6 Label Printer Utility Instructions".



**Note:** After the learning is completed, you can reopen the printer cover and re-place the blank label paper that you have just learned in case of paper waste.

### 3.5.5 Printer test

When you initially install the printer or have any problems with the printer, you can execute the self-test program and confirm the following status. Firmware version, printer parameter setting status, print quality and external equipment related setting information, after self-check to confirm that there is no problem with the printer, please check other devices or software. This function runs independently from other devices or software.

#### 1. Manually print self-test page (label/black label mode)

- 1) Make sure the printer is connected to the power supply, and the roll is loaded properly.
- 2) Make sure the top cover of the printer is closed properly. Then turn on the printer.
- 3) When the printer is ready, press and hold the function button until the green indicator flashes once.

#### 2. Printing by Windows Driver Program

- 1) Install the Windows Driver program.
- 2) Please set the "Interface" as the type you use.
- 3) Use the Windows Driver Program to print out the "Self-test page".

Please refer to "Chapter 7 Windows Driver Instructions" for more detailed information.

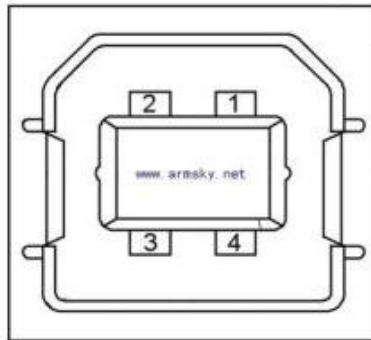
### 3.5.6 Switch Mode (label/receipt/black label mode)

Press and hold the function button until the green indicator flashes five times to switch label types in the following order:

Label paper (green indicator) -> Continuous paper (cyan indicator) -> Black label paper (yellow indicator)

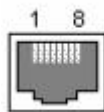
## Chapter 4 Interface

### 4.1 USB Interface



PIN	Signal name
1	VBUS
2	D-
3	D+
4	GND

## 4.2 Ethernet Interface



No.	Signal
1	TX+
2	TX-
3	RX+
4	n/c
5	n/c
6	RX-
7	n/c
8	n/c



**Note:** The printer is equipped with an Ethernet interface, and the direct network cable that meets the RJ45 interface standard is used to connect the router, switch and other network communication devices. When directly connecting to a PC, you are advised to use a crossover cable that meets the RJ45 interface standard.

## Chapter 5 Printer Cleaning

Dust, foreign matter, viscous substances, or other contaminants adhering to the print head or printer may reduce print quality. When dirty, clean the print head as follows.



### Caution:

- 1) Make sure to turn off the printer prior to cleaning.
- 2) As the print head gets hot during printing, if intending to clean the print head, turn the printer off and wait approximately 2~3 minute before commencement. If intending to clean the print head, turn the printer off and wait approximately 2~3 minute before commencement.
- 3) When cleaning the print head, take care not to touch the heated portion of the print head in case that print head is susceptible to damage from static electricity, etc.
- 4) Take care not to allow the print head become scratched and/or damaged in any way.

### 5.1 Cleaning Thermal Print Head

- 1) Open the Printer Cover and then use the cleaning pen(or cotton swab with diluted alcohol or isopropanol ) to clean the head in the direction from the center of the head to two sides.
- 2) After cleaning the head, do not use the printer until the alcohol used for cleaning evaporates completely (1~2 min) and the printer has completely dried.

### 5.2 Cleaning Sensor, Platen and Paper Path

- 1) Open the printer cover and then remove the paper.
- 2) Remove any dust or foreign substance using dry cloth or cotton swab.
- 3) Soak the cloth or cotton swab in alcohol for medical use and use it to remove adhesive foreign substances or other pollution materials.
- 4) After cleaning the parts, do not use the printer until the alcohol evaporates completely (1~2 min) and the printer has completely dried.



**Note:** Clean the parts whenever print quality or paper detection degraded.



## Chapter 6 Printer Utility Tool Instructions

Utility Tool is applicable to the following operating system:

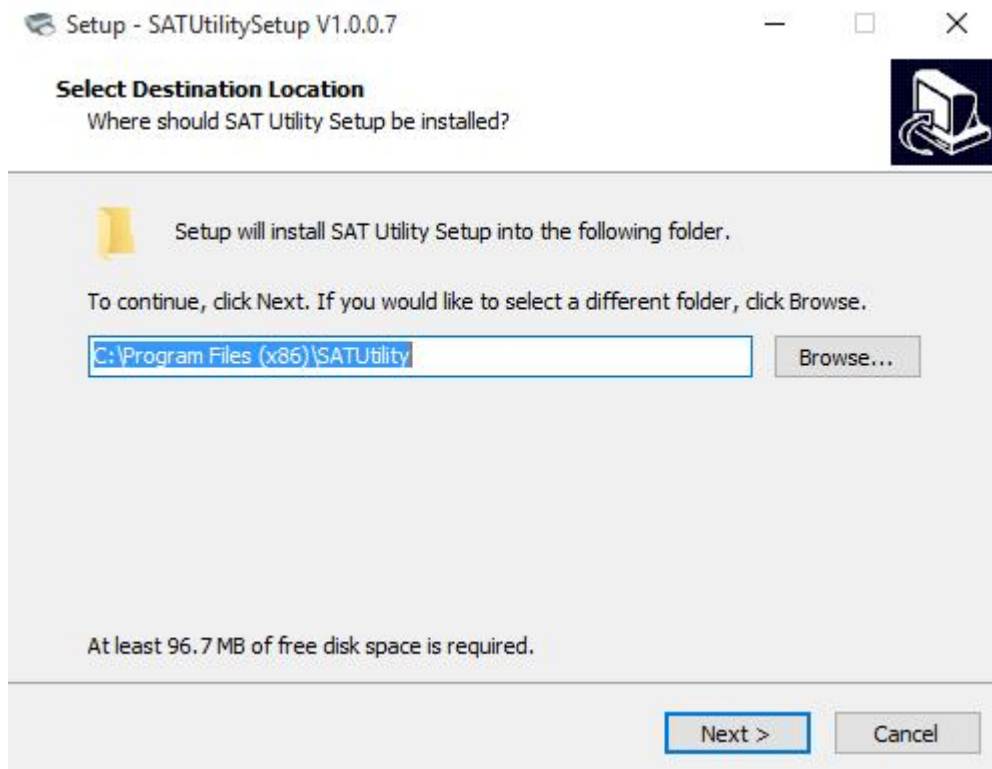
- Microsoft Windows 11iot
- Microsoft Windows 10 (32 bit/64 bit)
- Microsoft Windows 7 SP1(32bit/64 bit)
- Microsoft Windows XP Professional SP3(32 bit)

### 6.1 Utility Tool Installation

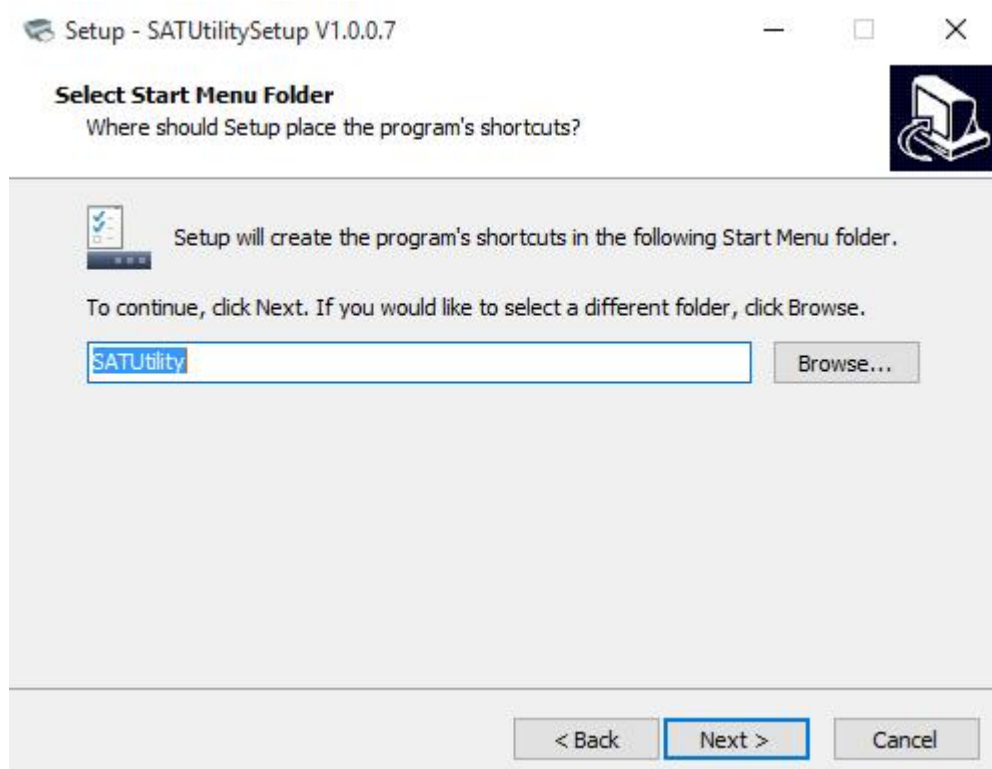
- 1) Open the installation package.
- 2) Choose “English” and click “OK” .



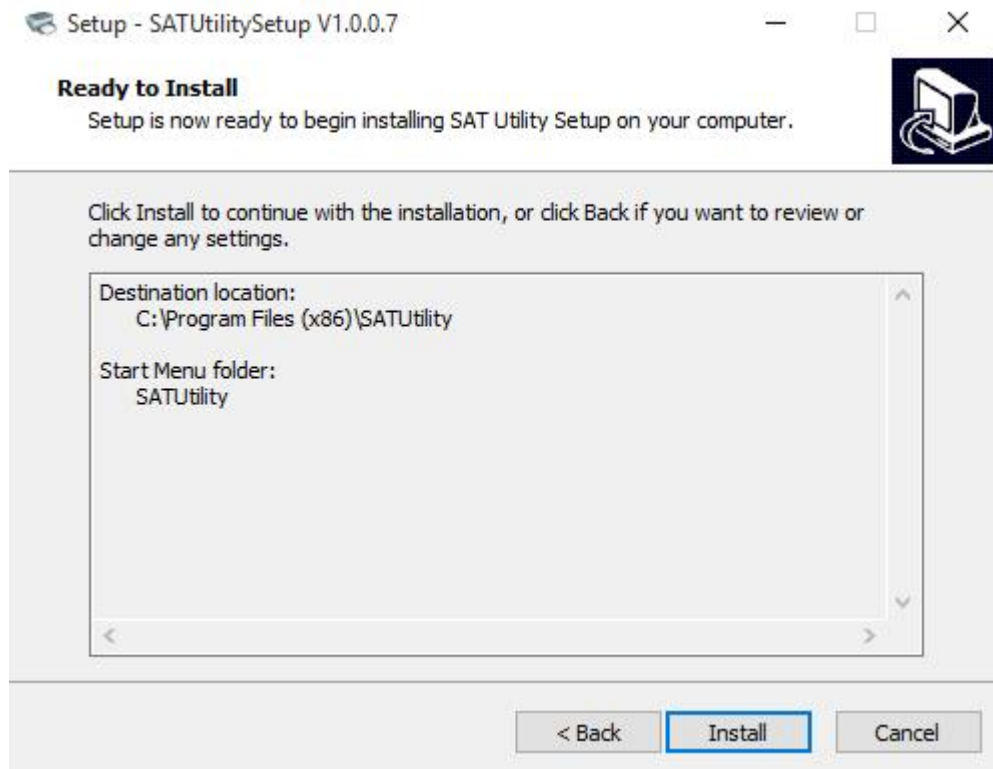
3) Select destination location to install the Utility Tool. Click “Next” .



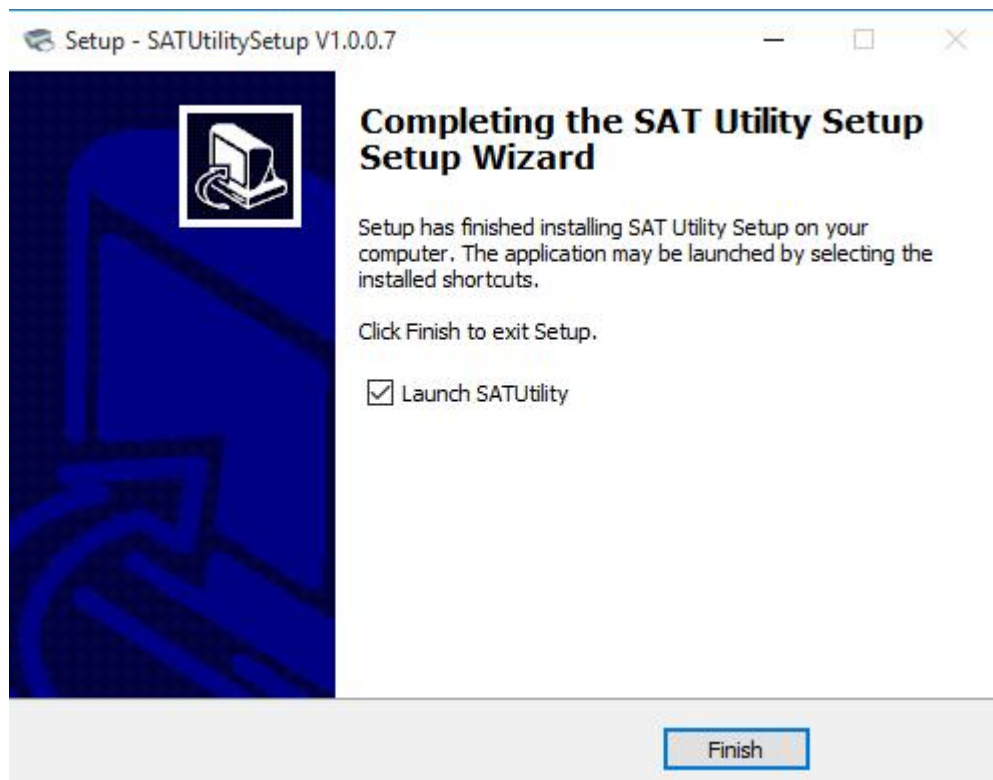
4) Select start menu folder. Click “Next” .



5) Click “Install” .



6) Click “Finish” . Utility Tool is installed successfully.



## 6.2 Utility Tool Using

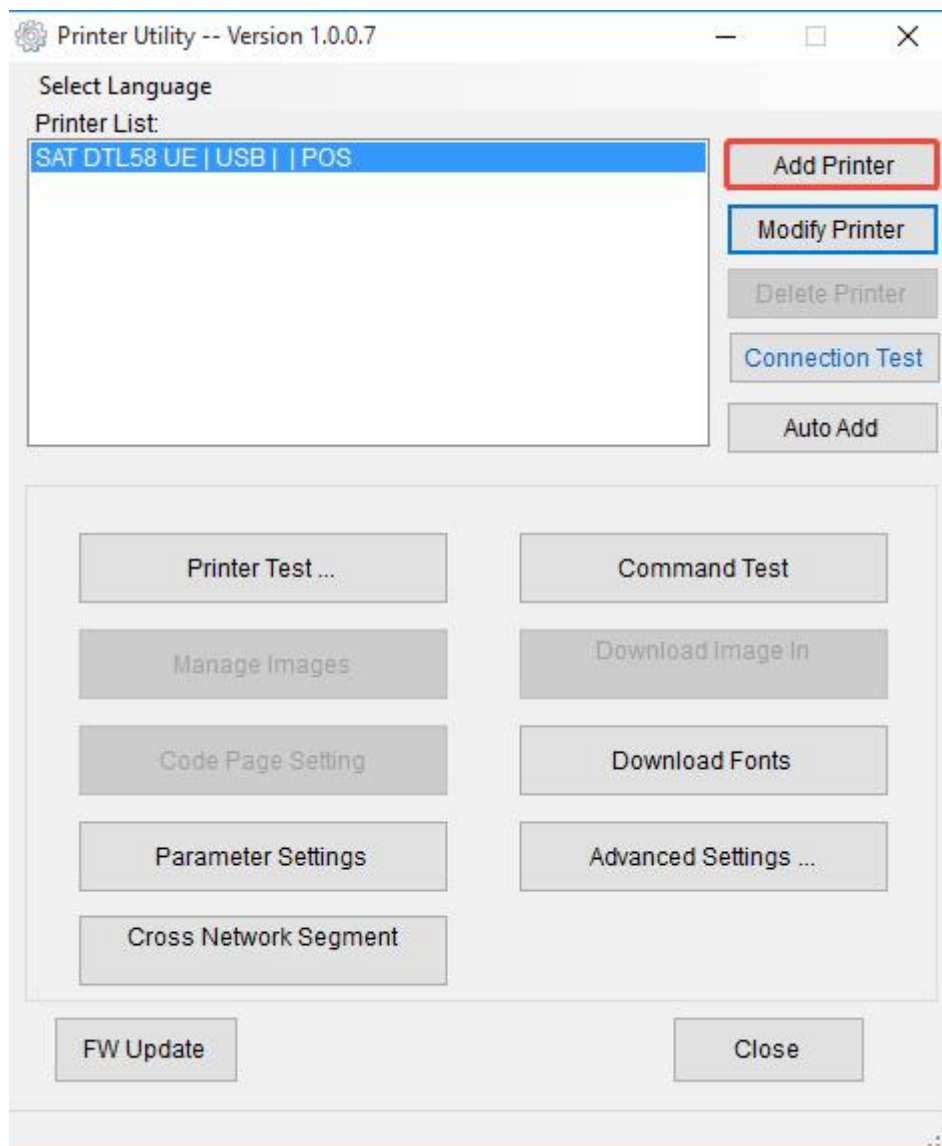
### 6.2.1 Add/Modify/Delete/Connection Printer



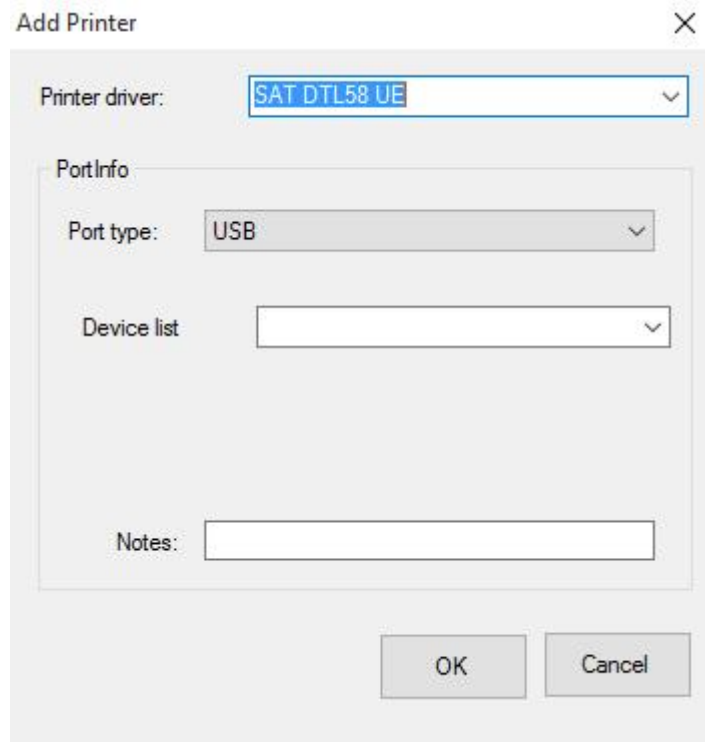
Warning: In different operating system, screen has a little difference. Please operate it according to the tips. Take SAT DTL58 UE (Windows 10) for example.

- Add printer

1) Click “Add Printer” .



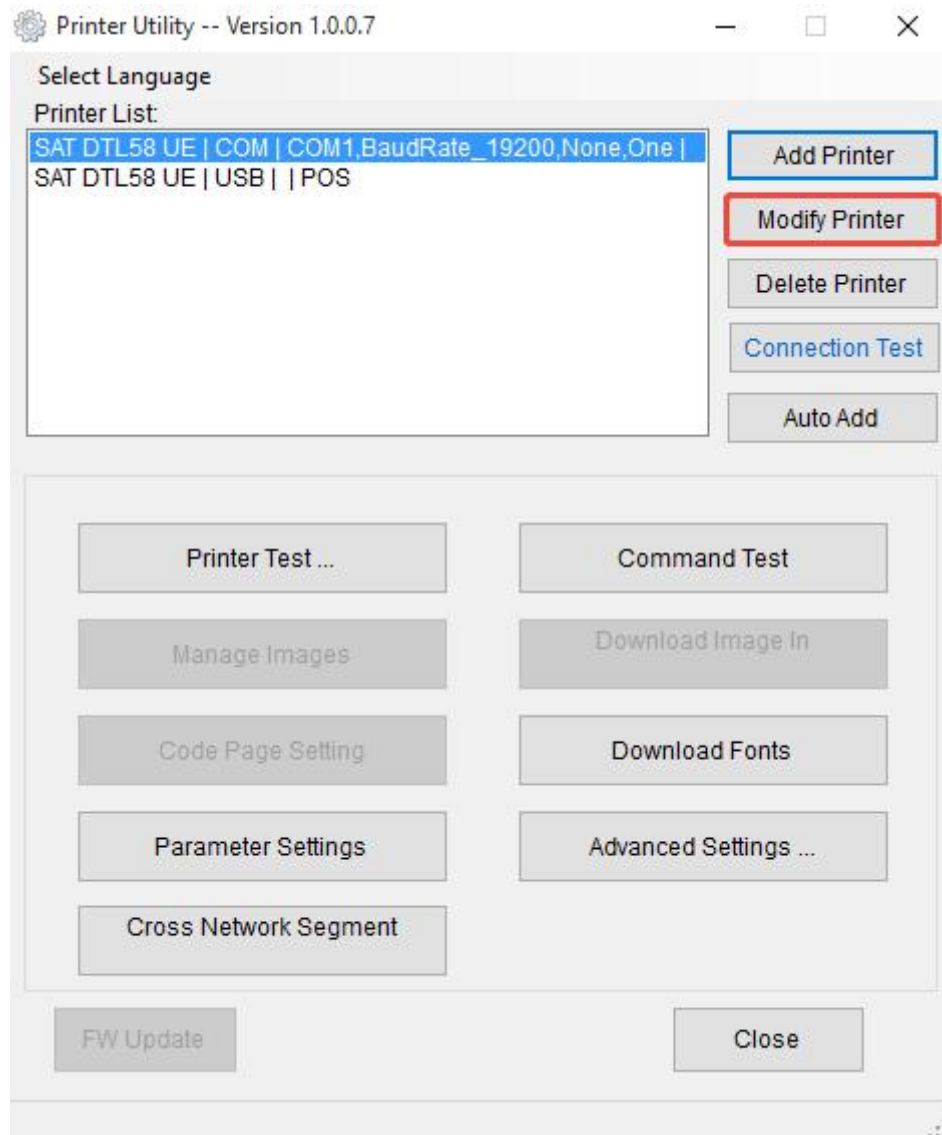
2) Choose the appropriate printer type and port. Then click “OK” .



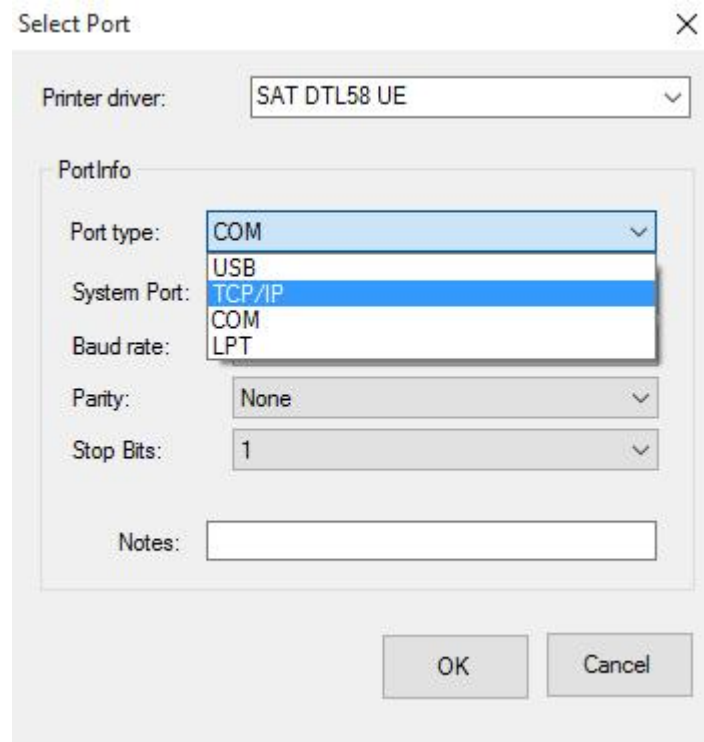
The image shows a Windows-style dialog box titled "Add Printer" with a close button (X) in the top right corner. Inside the dialog, there is a "Printer driver:" label followed by a dropdown menu showing "SAT DTL58 UE". Below this is a section titled "PortInfo" which contains a "Port type:" label followed by a dropdown menu showing "USB", and a "Device list" label followed by an empty dropdown menu. At the bottom of the "PortInfo" section is a "Notes:" label followed by an empty text input field. At the bottom of the dialog are two buttons: "OK" and "Cancel".

- **Modify printer**

1) Choose the printer you want to modify in the list. Click “Modify Printer” .



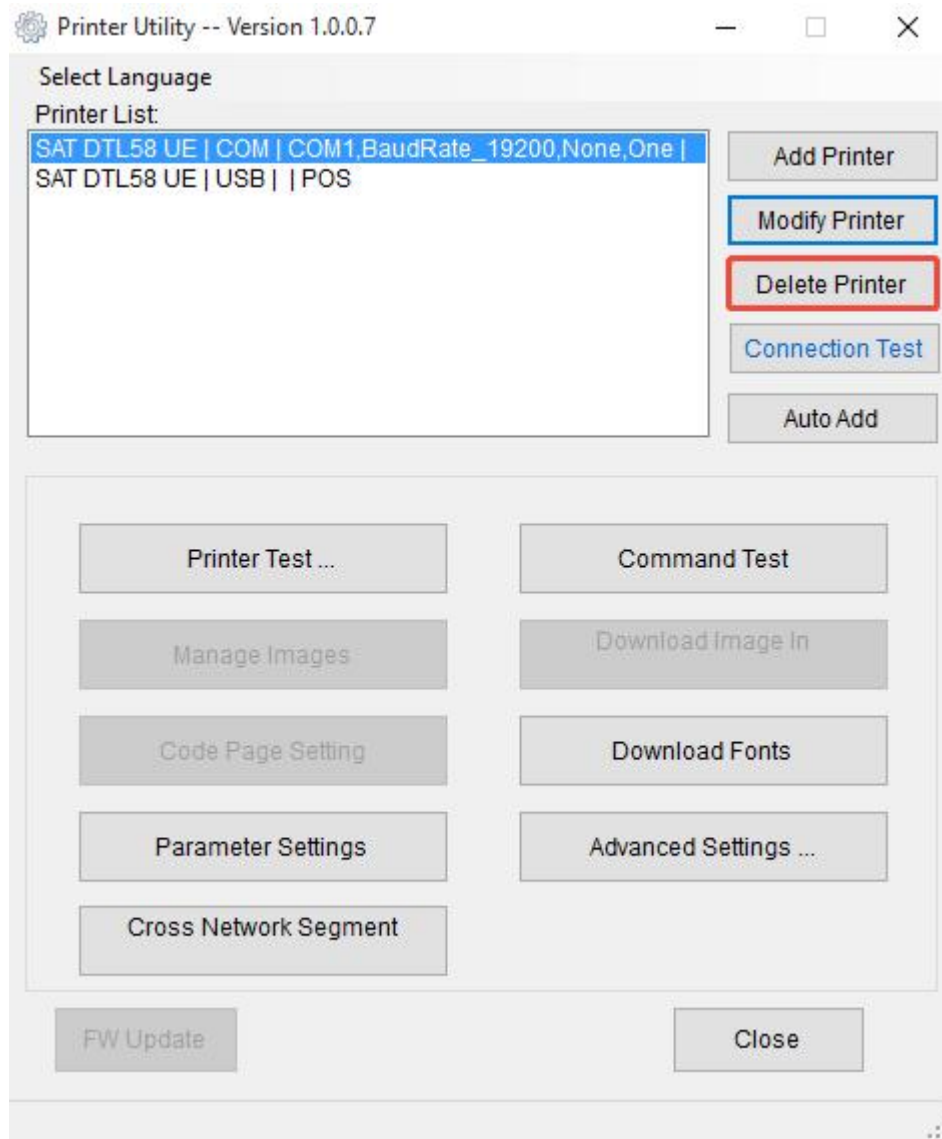
2) Choose the new printer and new port. Then click “OK” .



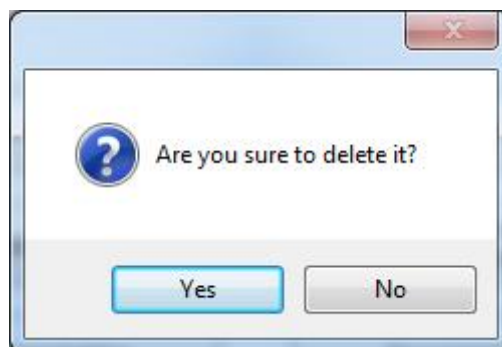
3) The new printer is added successfully.

- Delete printer

1) Choose the printer you want to delete in the list and click “Delete Printer” .



2) Click “Yes” , then the printer is deleted.

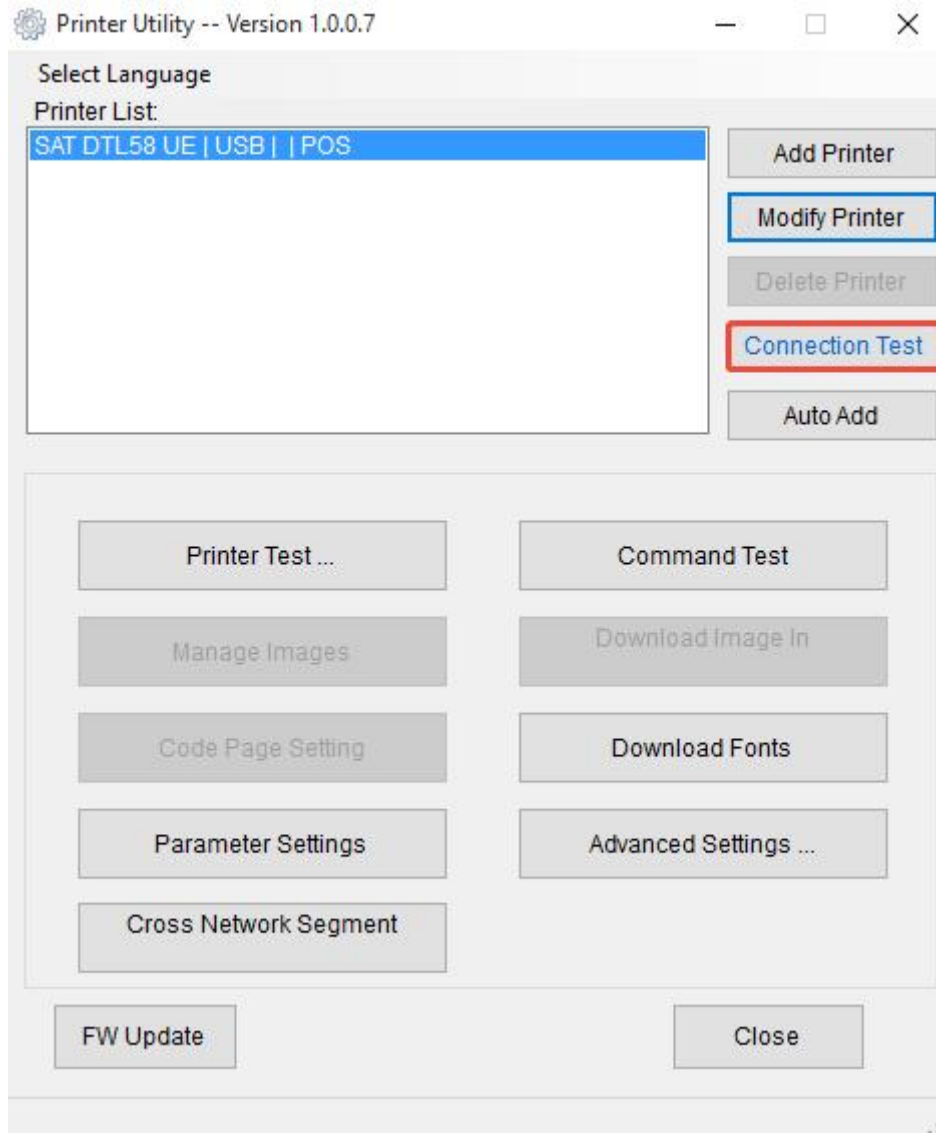




- **Connection Test**

Make sure printer is connected to computer and it is power on.

1) Choose the printer. Click “Connection Test” .



2) If the connection is successful, it will appear the following window. If the connection is unsuccessful, please connect the printer with computer.



#### Note:

- ❖ Make sure printer is connected to computer and power on.
- ❖ Make sure printer is loaded with paper.
- ❖ Before using the following function, carry out the “Connection Test” first.

## 6.2.2 Functions

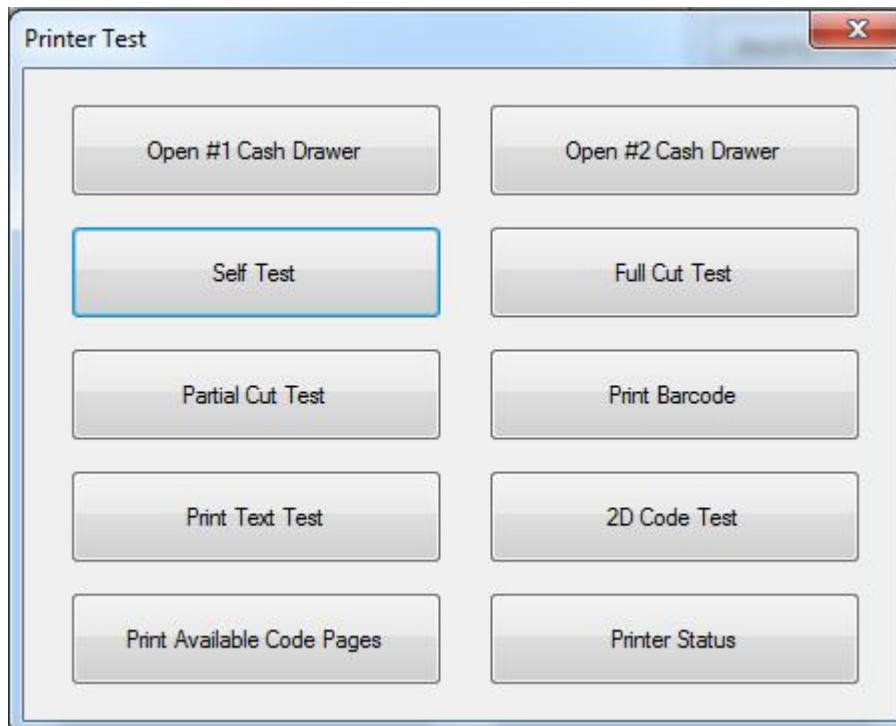
Printer Test contains the following items:

- ▼ Printer Test
- ▼ Common Test
- ▼ Manage Images
- ▼ Download Image in Compatible Mode
- ▼ Code Page Setting
- ▼ Download Fonts
- ▼ Parameter Setting
- ▼ Advanced Settings

## 6.2.2.1 Printer Test

### 1) Self Test

Click “Self Test” to see if the printer will print properly.



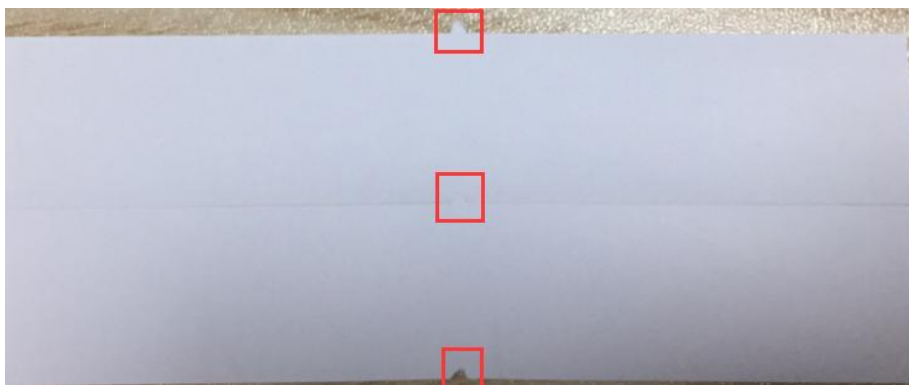
### 2) Full Cut Test

Click the “Full Cut Test” and the paper will be cut automatically. Cutting method is full-cutting. The paper would be falling down from the paper outlet after cutting.

### 3) Partial Cut Test

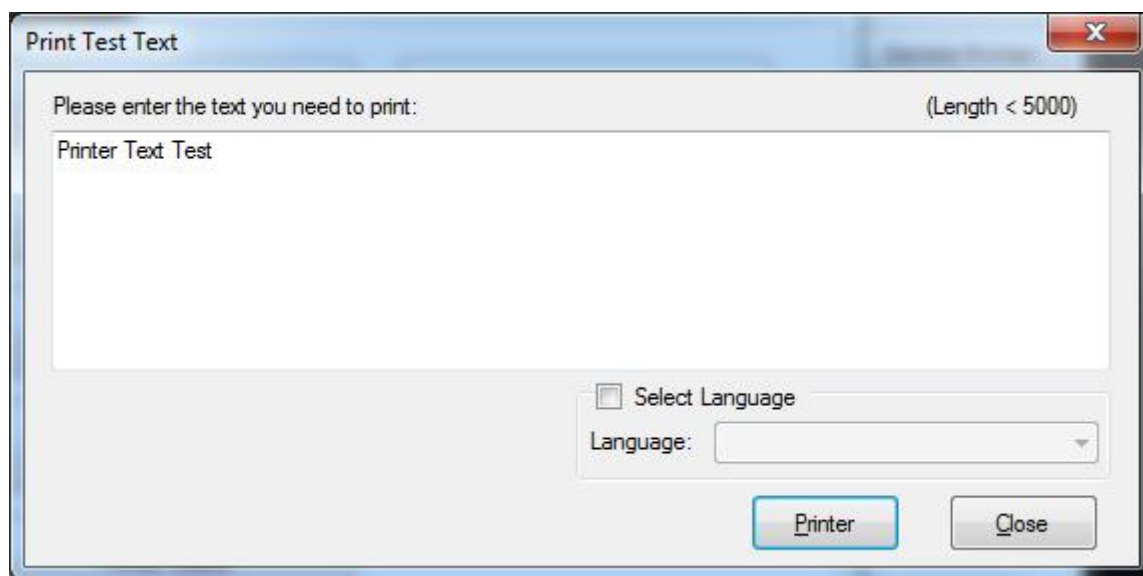
Click the cutter test and the paper will be cut automatically. Cutting method is partial cut (Partial cut: Not all cut off, leave a connection point between the two sheets of paper).

As shown in the figure:



#### 4) Print Text Test

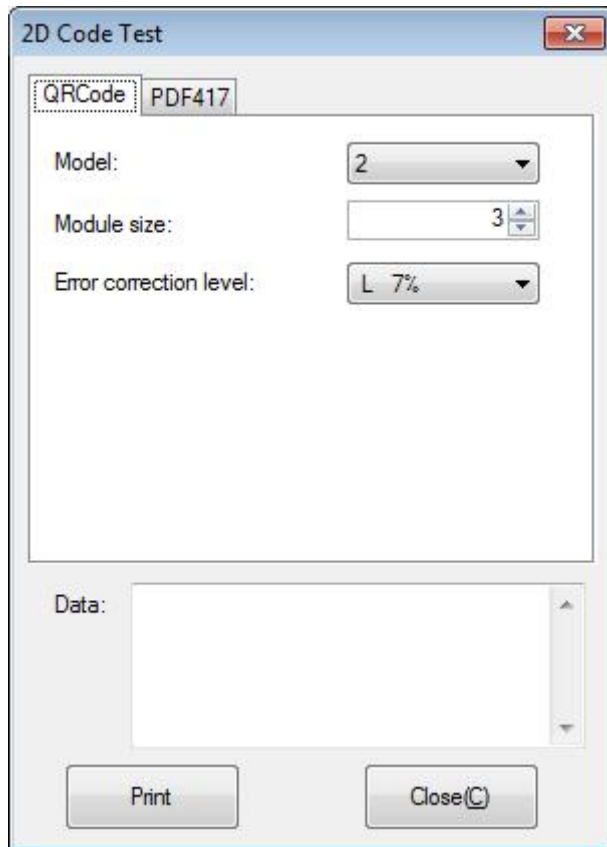
Click "Print Text Test", input the text you want to print. When you click "Print", the printer starts printing text content. Such as: Print Text Test.



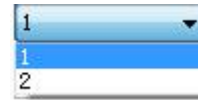
▲ Note: The language option in the lower right corner is checked according to the input text. (For example: The input is Simplified Chinese, the language is checked for Simplified Chinese, the printer prints the input text according to the setting options, and if you check other languages, the printer does not print the text)

## 5) 2D Code

Click the QRCode mode.



▲Model: 1~2

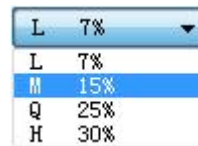


▲Module size: 1~16

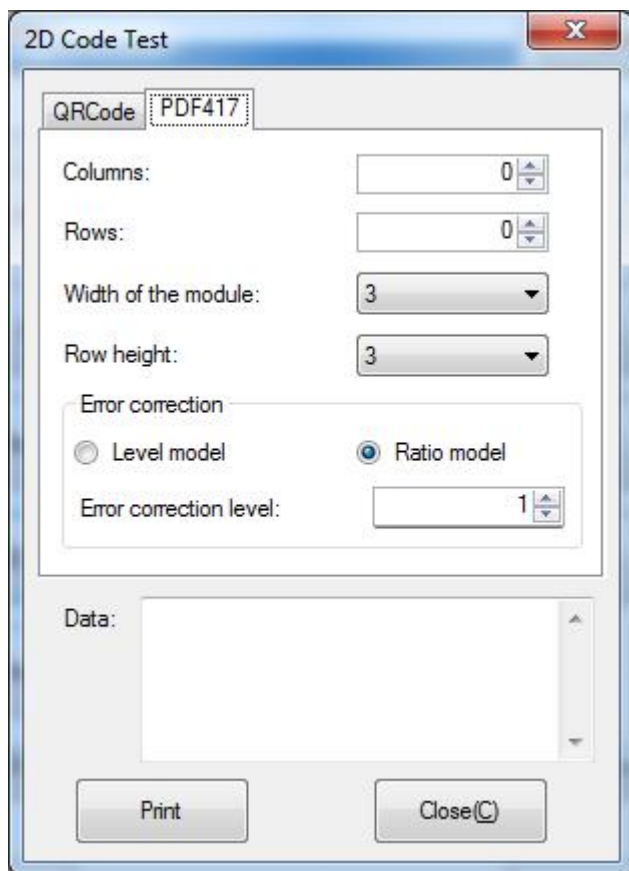
The larger the module value, the larger the printed QR code is, and the smaller the opposite.

▲Error correction level: 7%~30%

The higher the error correction level, the more intensive the module graphics.



Click the PDF417 mode.



▲Columns: 0~30

▲Rows: 0~90

▲Width of the module: 2~6

The larger the module value, the wider the width of the printed PDF417 barcode, and the smaller the opposite.



▲Row height: 2~8

The larger the module value, the longer the printed PDF417 barcode, and the smaller the opposite.

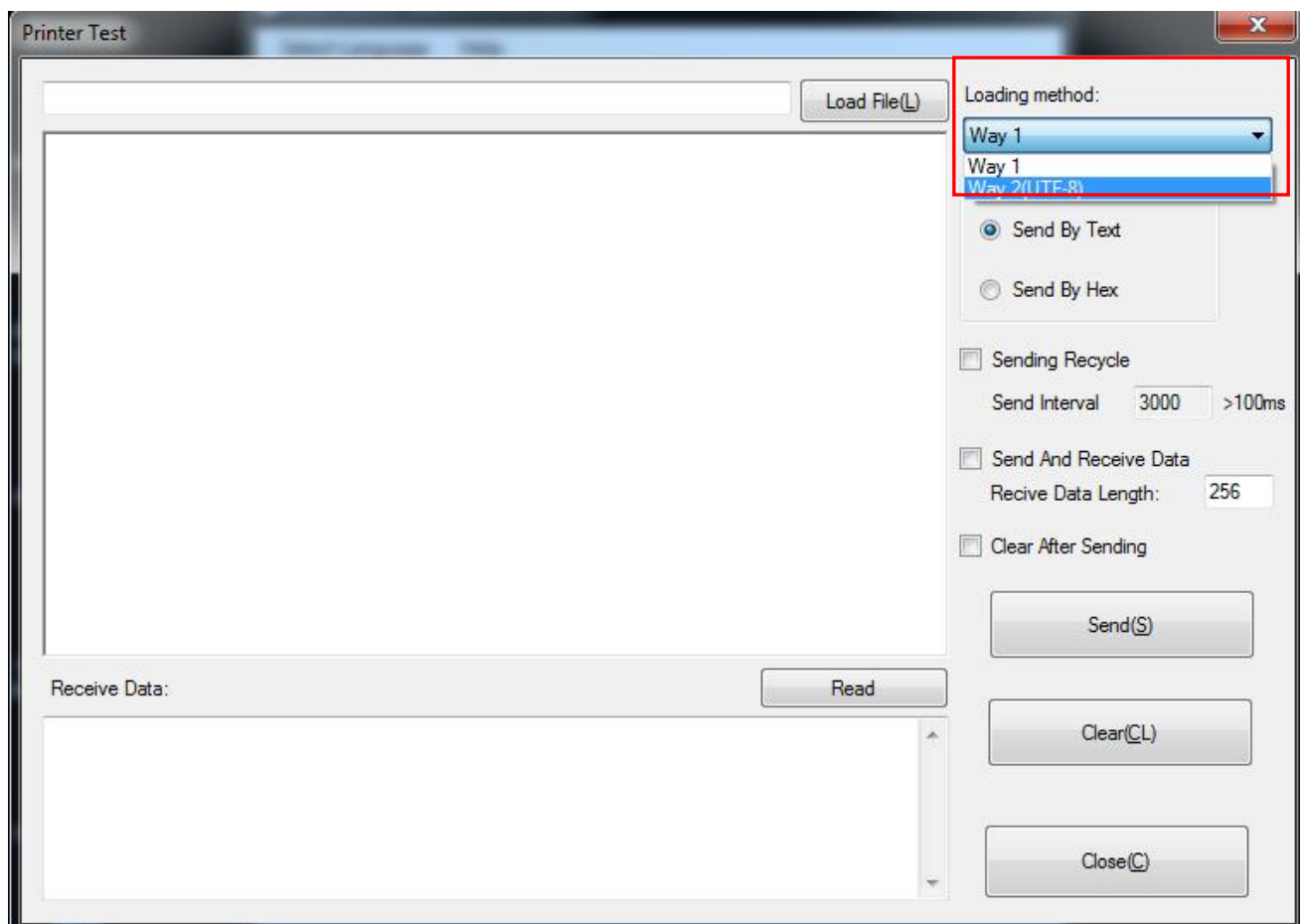
▲Error connection level

## 6.2.2.2 Command test

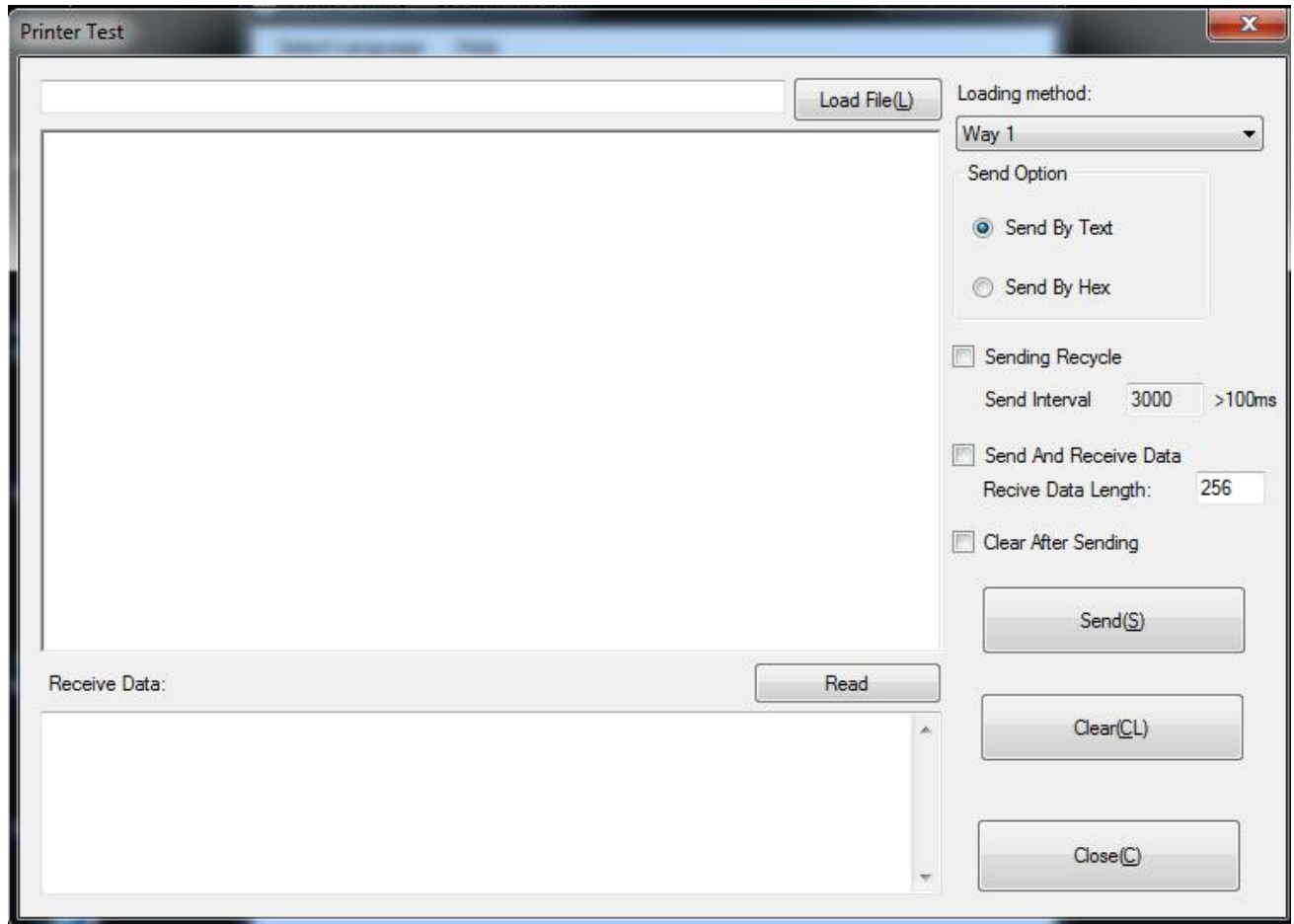
In the command test, you can send command to the printer. Input text or hexadecimal data.

Select a file or enter a command in the input box.

1) There' re two ways to load files. You can choose the way you want.



2) Click “Send by Text” , input text content.





### ▲Sending Recycle:

When the interval is set to 3000ms (you can set the interval as needed), then click “Send” , the printer starts to recycle printing. Click “Stop” to stop the recycle printing.

Send Option

☒ Send By Text
☐ Send By Hex

☐ Sending Recycle

Send Interval
>100m

☐ Send And Receive Data

Recv Data Length:

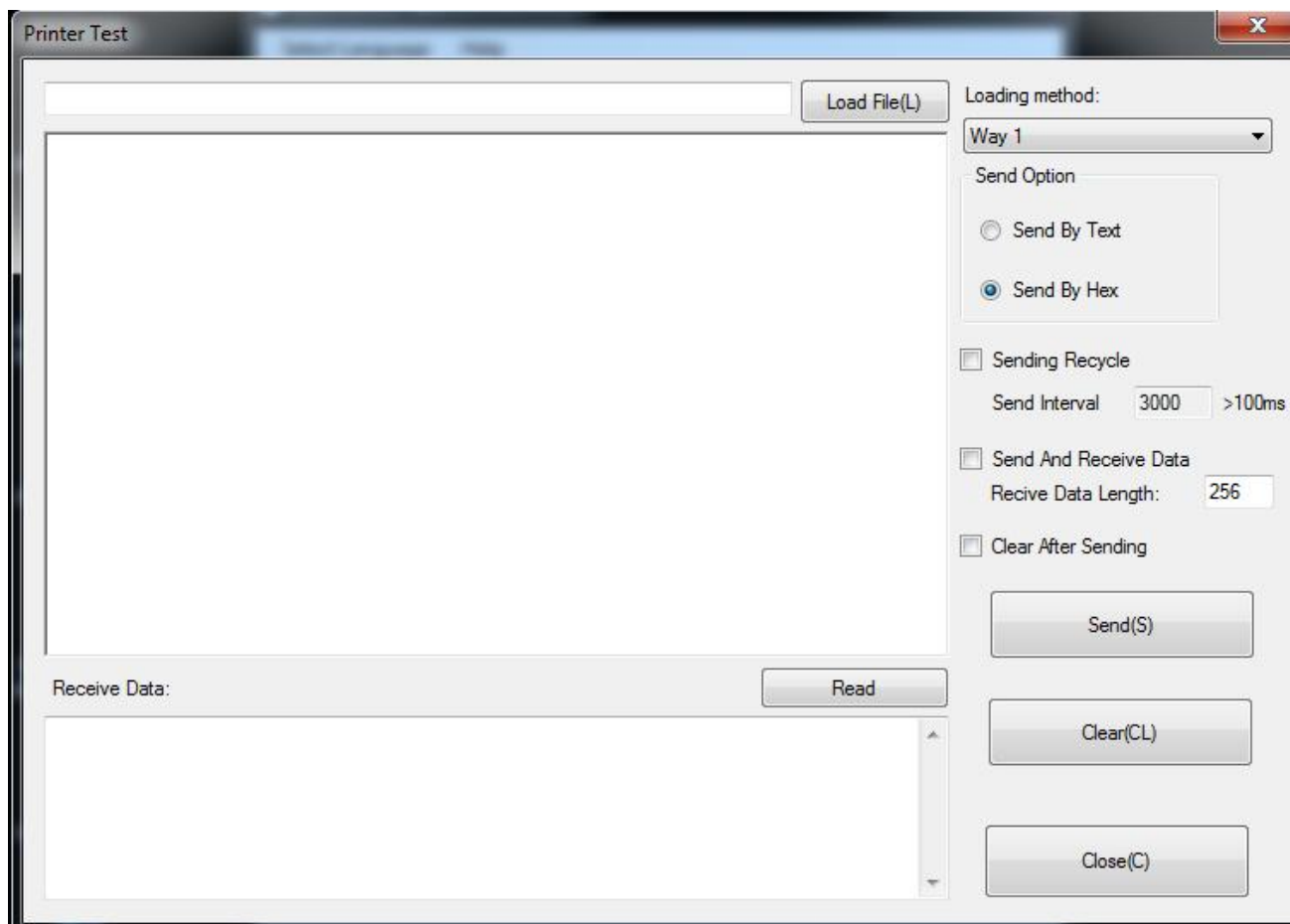
☐ Clear After Sending

Send(S)

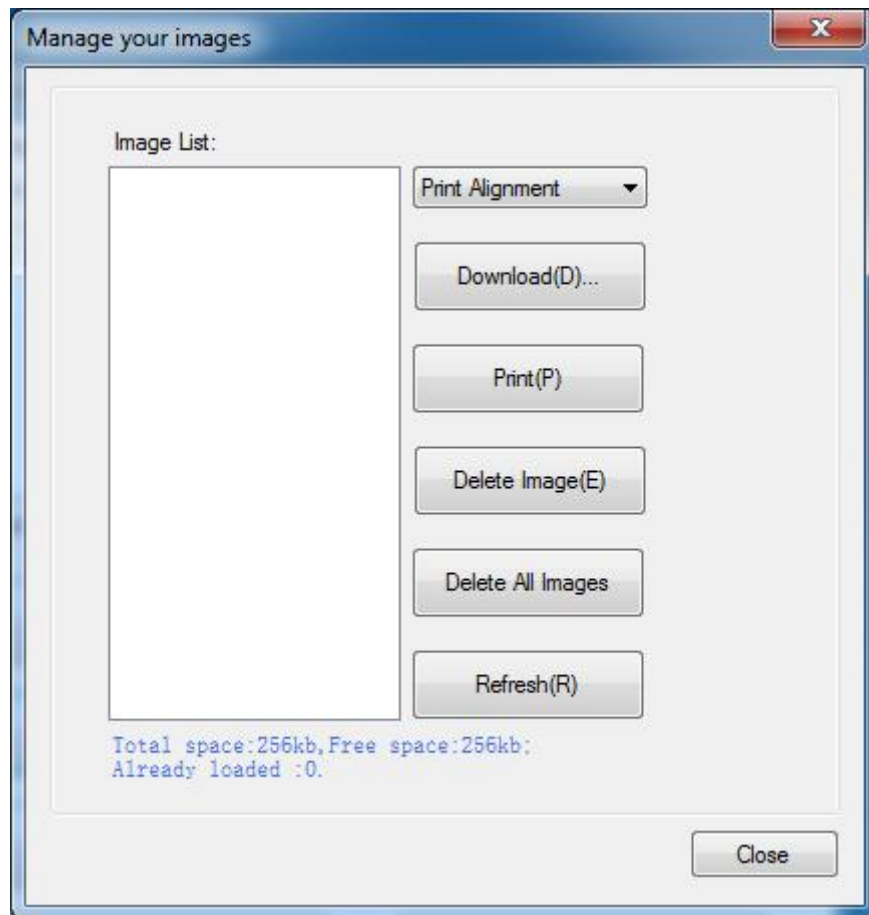
Clear(CL)

Close(C)

- 2) Click “Send by Hex” , input the content. (Convert text to HEX or send ESC command)

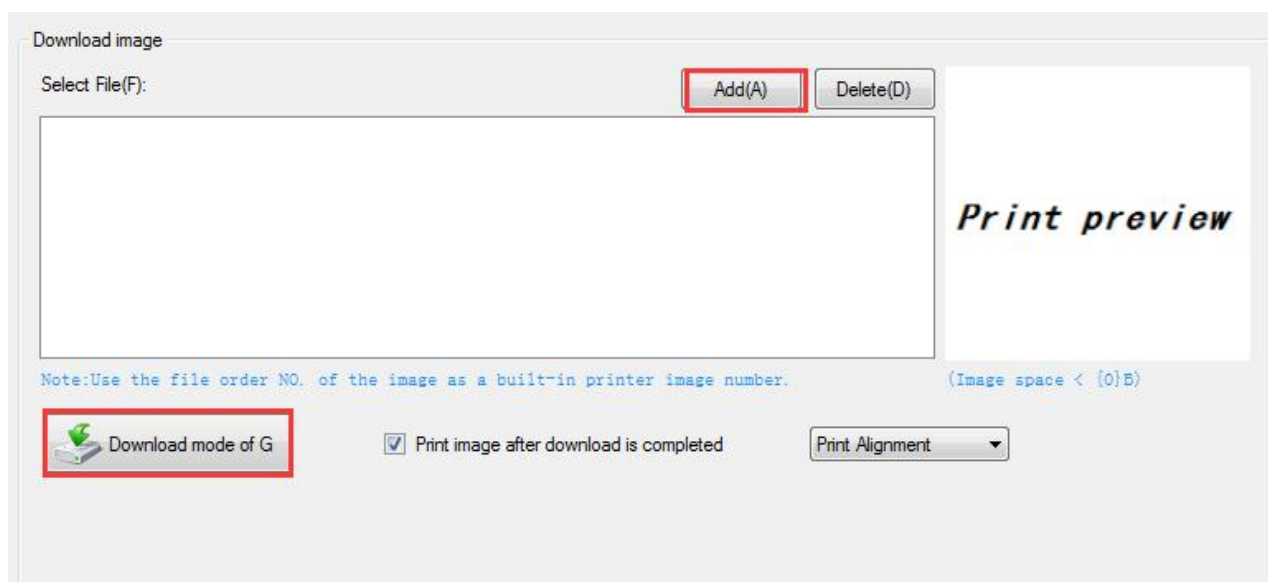


### 6.2.2.3 Manage Images

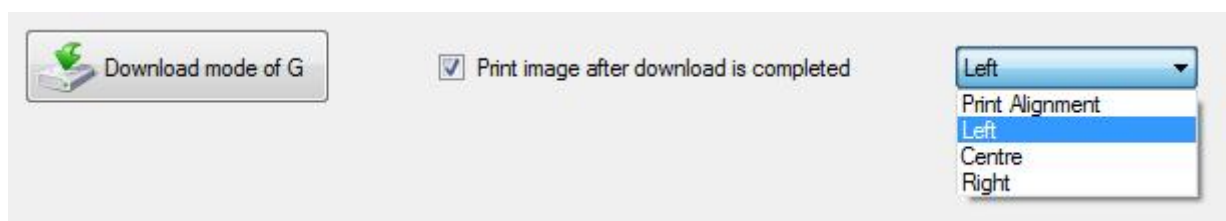


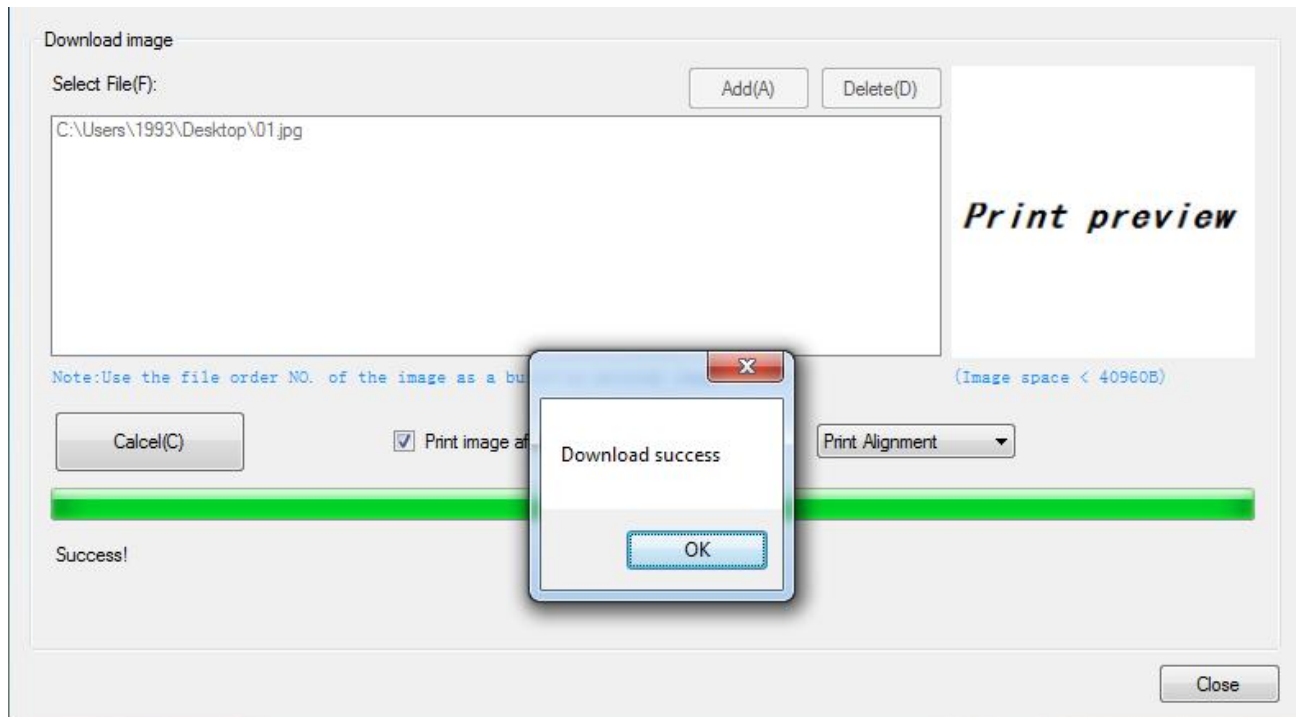
- Download image

Click "Download" to add the image, if you want to print the picture, set the print location before clicking "Download mode of G" to print the picture. (It is recommended to use a picture in BMP format)



- Select the print location, center, left, and right. (Such as, left print).

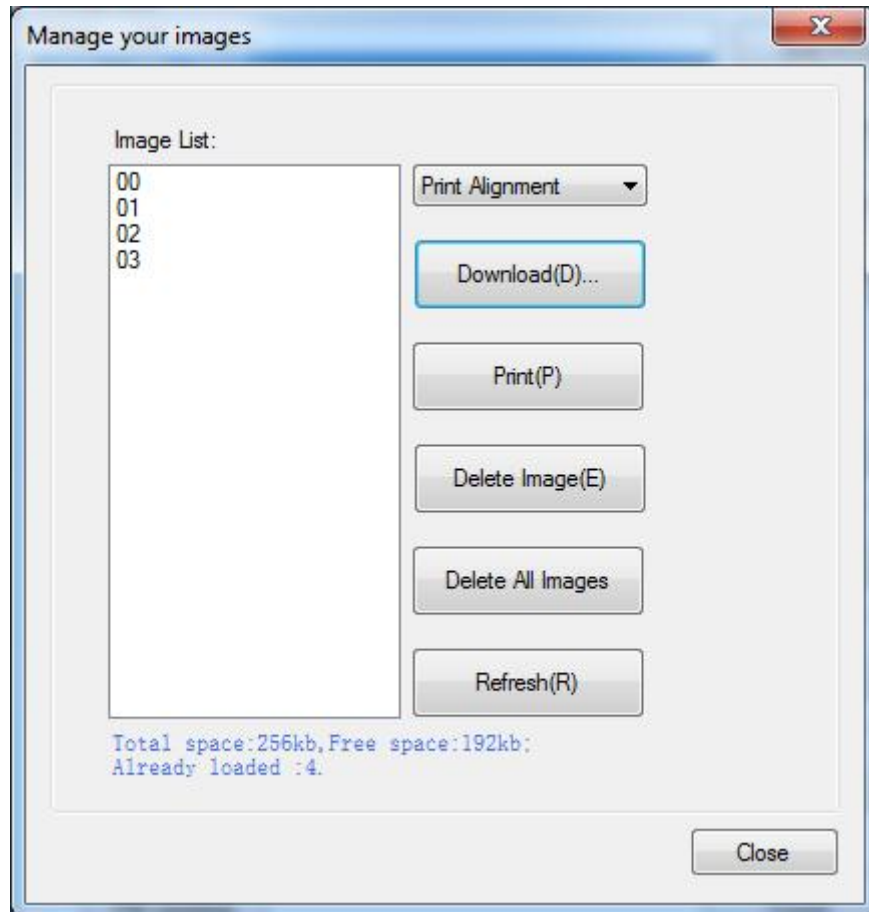




**Note:** Total memory for bitmap is 256K.

- Delete Image

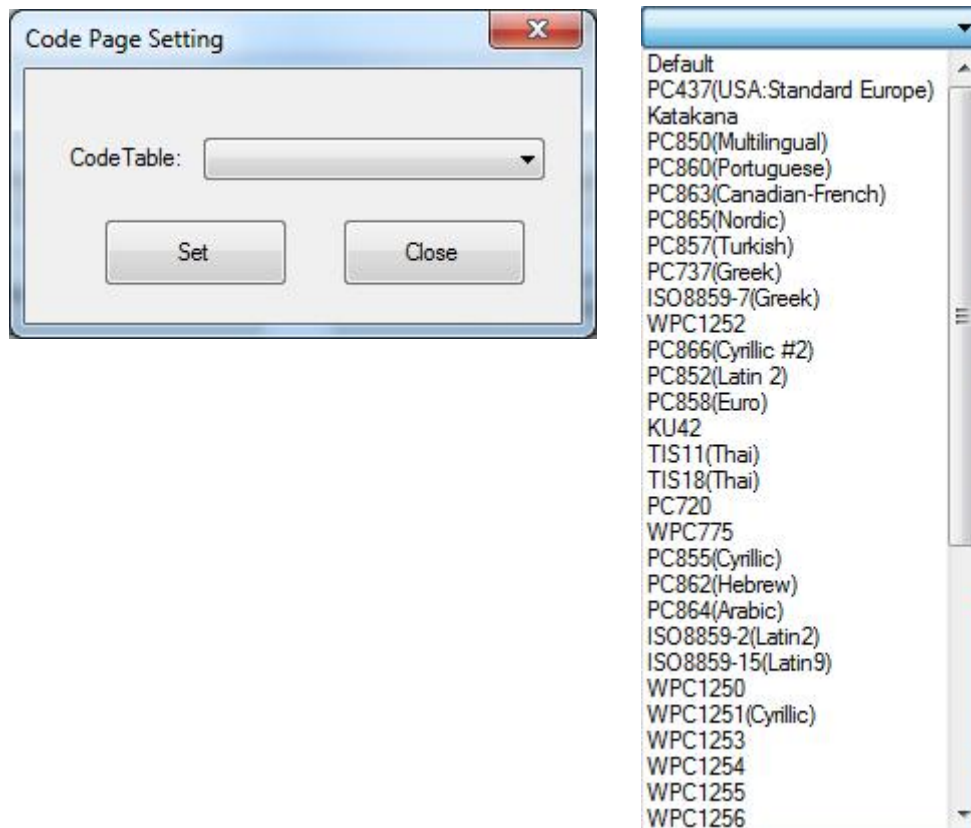
Note: each time click "Download mode of G", an image list number will be generated.



Click the image list, select "Delete selected image" will delete the image, click "Delete all Images", without clicking the list option to delete all the images in the list.

## 6.2.2.4 Code Page Setting

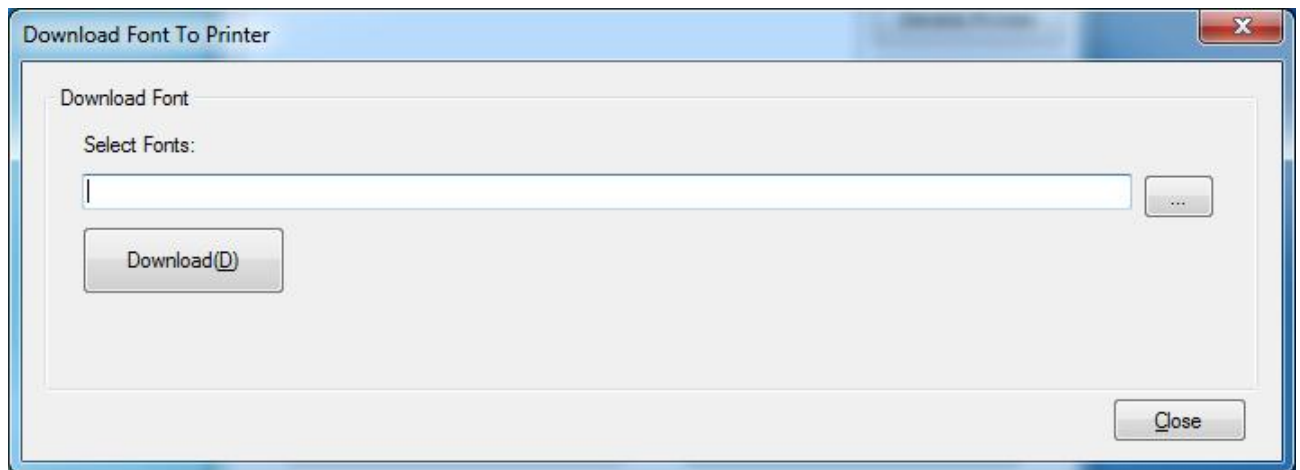
Select the code page from the list and click “Set” .



**Note:** This code page is only valid in multiple languages.

### 6.2.2.5 Download Fonts to Printer

Select the font from the existing file and click "Download".

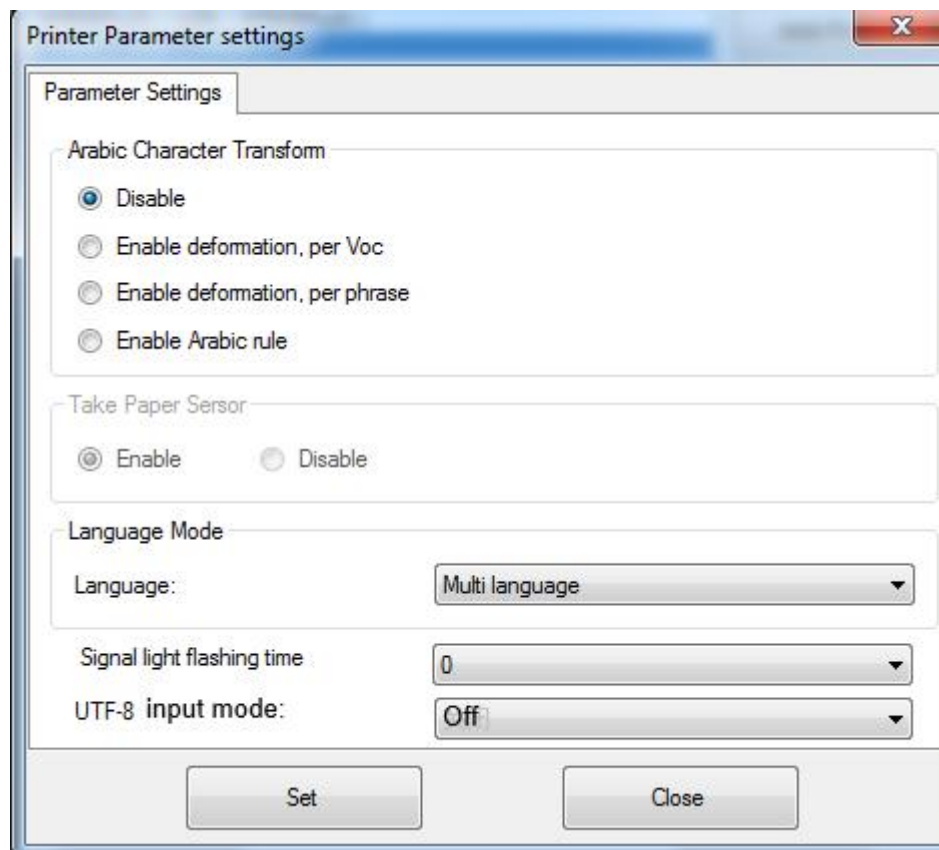


**Note:** After downloading the font successfully, you need to restart the printer to take effect.



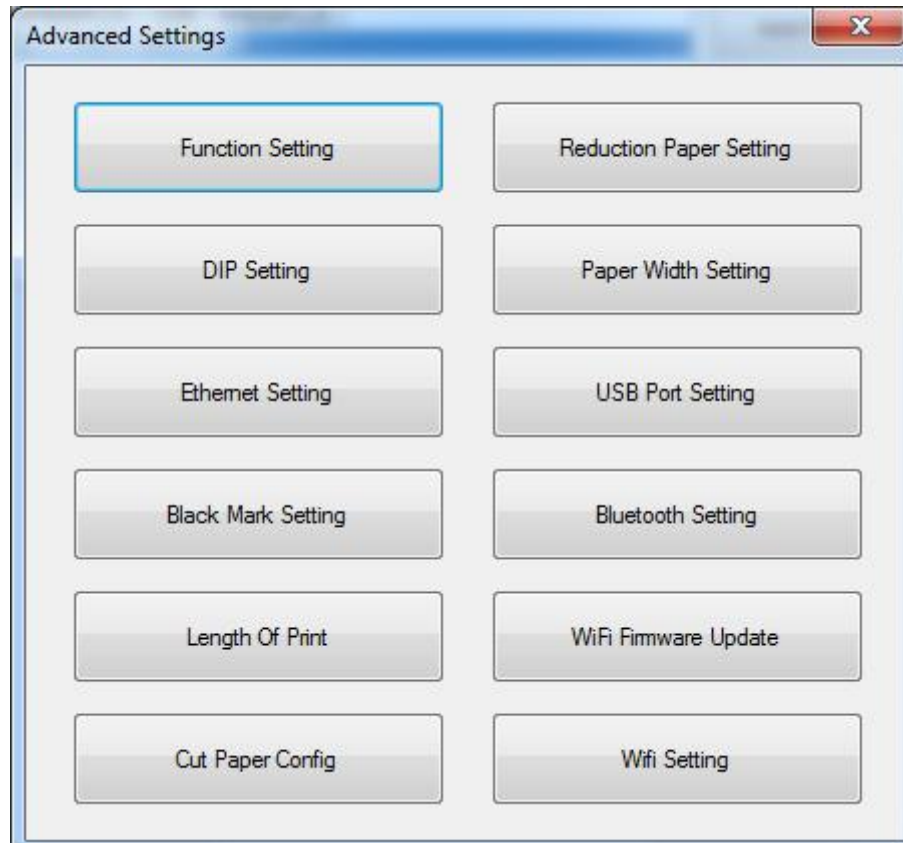
## 6.2.2.6 Parameter Setting

You can set “Arabic Character Transform”, “Language Mode”, “Signal light flashing time” and “UTF-8 input mode” .



## 6.2.2.7 Advanced Setting

The advanced settings contain the following items.



## ◆ Function Setting

Function Settings

AD Settings

Detect Paper AD Value:
☒
Read(R)

Set AD Valve Value:
☒
Write(W)

(AD Value + 300 or Default 2100)
Clear(C)

Long Beeping After Cutting

☒ Disable
☐ Use printer buzzer
☐ Use printer buzzer and external buzzer
Set

Printer Buzzer

Beeping times:
 1 (1-63)

Beeping time:
 1 (1-255) (100ms)

Beeping interval:
 1 (1-255) (100ms)

External Buzzer

Beeping Times:
 1 (1-63)

Buzzer Volume

☐ Very Low
☐ Low
☒ Standard
☐ Loud
Set

Power-on Model

Chinese Mode(Z)
English Mode(U)

Paper Near-End Sensor Status

Enable
Disable

Close(C)

- **AD Settings:**

- ① Detect Paper AD Value: click “Read” and you can see the default value and cannot be input.
- ② Set AD threshold value: You can input the value, and the ideal value is the AD value plus 300, and the default value is 2100.

- **Long Beeping After cutting:**

- ① **Disable:** there is no sound after cutting
- ② **Use printer buzzer** (The beeping time, times and interval time can be set for what you want, such as 1 milliseconds, 2 milliseconds or 3 milliseconds, etc.):

The following setting is set as an example:

When cutting one piece of paper each time, the printer will emit the “Beep” for one time, and the beeping time is two milliseconds and beeping interval is three milliseconds.



Printer Buzzer

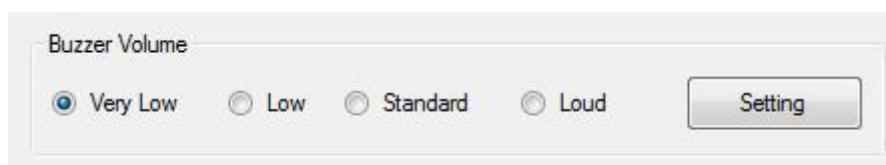
Beeping times:  (1-255)

Beeping time:  (1-255) (100ms)

Beeping interval:  (1-255) (100ms)

Note: 100ms=0.1s, 1s=1000ms

- **Buzzer Volume:**



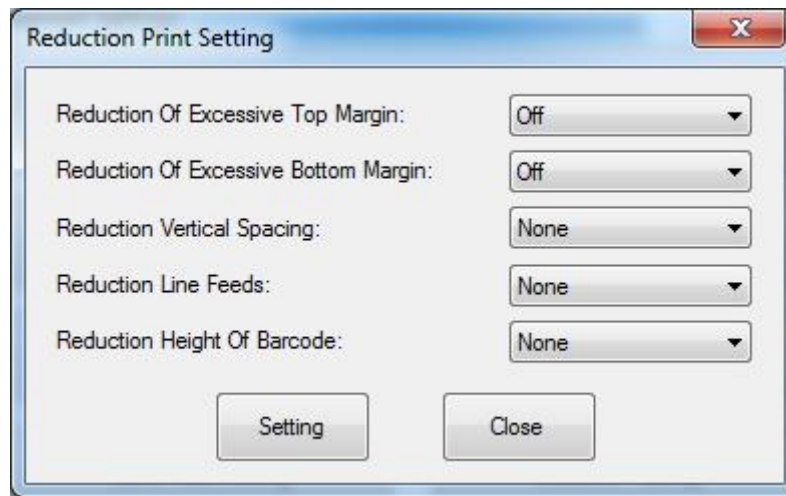
Buzzer Volume

☒ Very Low
 ☐ Low
 ☐ Standard
 ☐ Loud

The “Very Low” is the minimum sound, and the “Loud” the maximum sound. You can select a volume level and click "Setting" to print (Default: "Standard" level).

## ◆ Reduction Print Setting

Select the item and click "Settings".



Choose the item and click "Setting".

### ① Reduction Of Excessive Top Margin:

When the printer is in the "off" state, the blank part at the top of the printed paper is larger than the blank part at the top of the paper printed in the "on" state.

### ② Reduction Of Excessive Bottom Margin:

When the printer is in the "off" state, the blank part of the bottom of the printed paper is larger than the blank part of the bottom of the paper printed in the "on" state.

### ③ Reduction Vertical Spacing: 25%~75%

The bigger the reduction vertical spacing, the narrower the interval between two lines of characters.

### ④ Reduction Line Feeds: 25%~75%

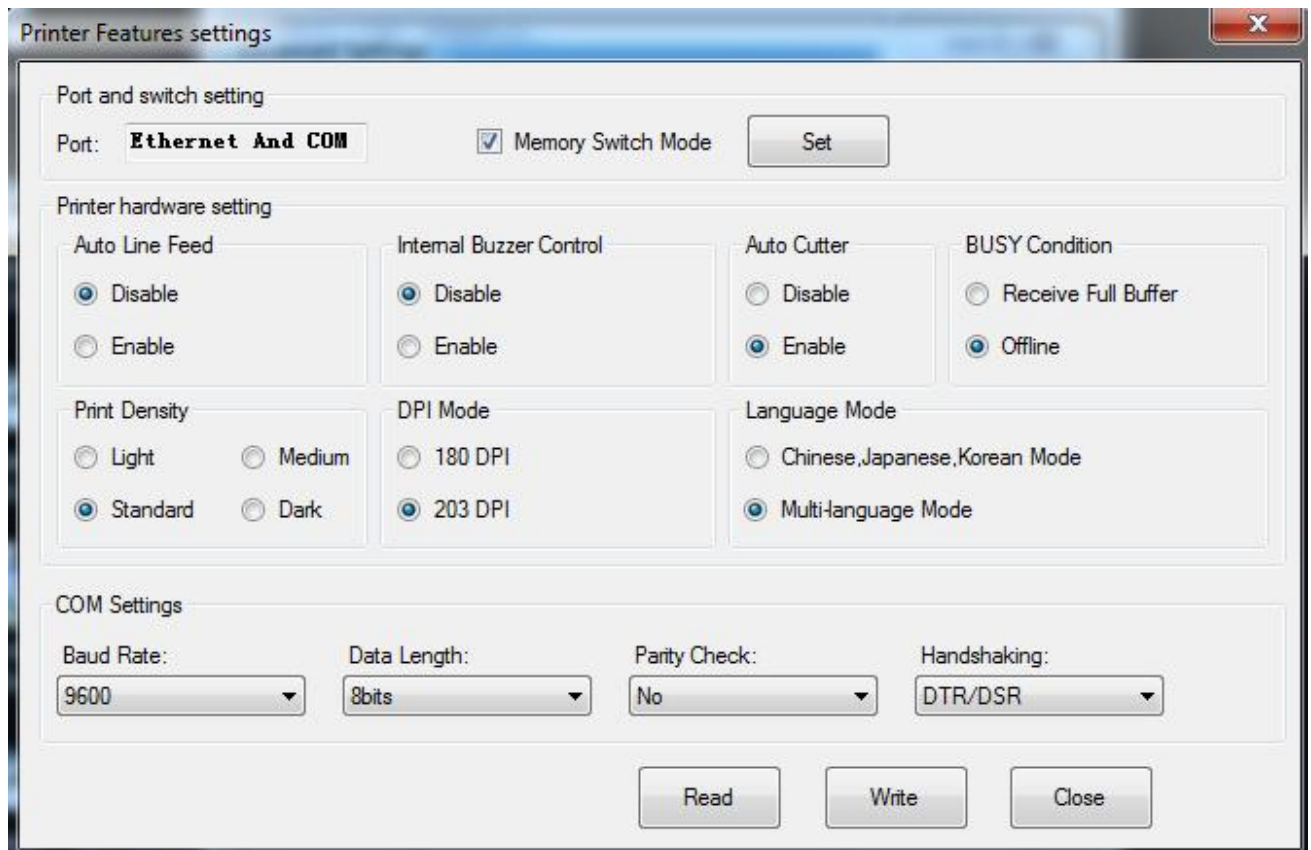
The higher the reduction line feeds, the narrower the interval between two lines of characters.

### ⑤ Reduction Height of Barcode: 25%~75%

The bigger the reduction height of barcode, the smaller the height of the barcode.

### ◆ DIP Setting

Click "Read" to get the printer parameters, click "Write" to send the modified parameters to the printer.



The image shows a software window titled "Printer Features settings" with a close button (X) in the top right corner. The window is divided into several sections for configuring printer parameters.

**Port and switch setting**

Port: **Ethernet And COM** ☒ Memory Switch Mode Set

**Printer hardware setting**

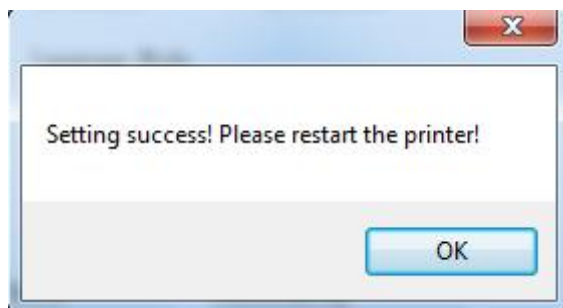
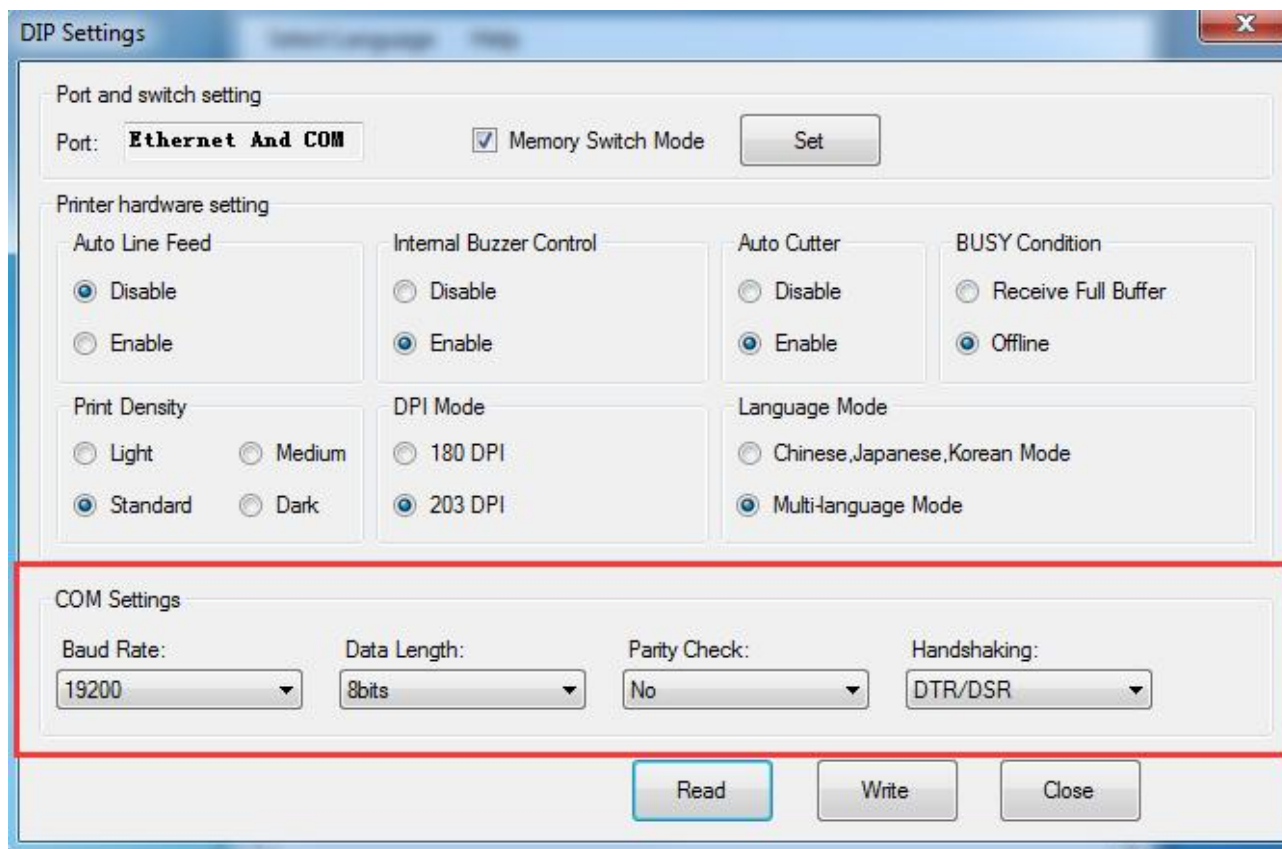
<b>Auto Line Feed</b> <input checked="" type="radio"/> Disable <input type="radio"/> Enable	<b>Internal Buzzer Control</b> <input checked="" type="radio"/> Disable <input type="radio"/> Enable	<b>Auto Cutter</b> <input type="radio"/> Disable <input checked="" type="radio"/> Enable	<b>BUSY Condition</b> <input type="radio"/> Receive Full Buffer <input checked="" type="radio"/> Offline
<b>Print Density</b> <input type="radio"/> Light <input type="radio"/> Medium <input checked="" type="radio"/> Standard <input type="radio"/> Dark	<b>DPI Mode</b> <input type="radio"/> 180 DPI <input checked="" type="radio"/> 203 DPI	<b>Language Mode</b> <input type="radio"/> Chinese,Japanese,Korean Mode <input checked="" type="radio"/> Multi-language Mode	

**COM Settings**

Baud Rate: 9600 Data Length: 8bits Parity Check: No Handshaking: DTR/DSR

Read Write Close

After the serial port parameter is set, click "Set".



Note: When DIP setting is set in soft, the DIP switch in the bottom of printer is disable.

After setting the DIP successfully, you need to restart the printer before using it.

- **Printer hardware setting**

- 1) Print Density: Light, Medium, Standard, Dark (default "standard" level)

The print density value varies according to the paper material and it can be adjusted to suit your needs.

- 2) DIP Mode: 180/203DPI (default "203 DPI")

The printer supports both of these resolutions.

- 3) Language Mode:

Chinese, Japanese, Korean mode (default)

Multi-language mode

- **COM Setting**

- 1) Baud Rate: 2400, 4800, 9600, 19200, 38400, 57600, 115200

- 2) Data Length: 7bits, 8bits

- 3) Parity Check: No, EVEN, ODD

- 4) ADDC: DTR/DSR, XON/XOFF

**Note:** The value of the serial port parameter can be obtained according to the value of the

**Self-test page information:**

E.g: Self-test page (Serial 115200, None, 8, 1, DTR/DSR)

Baud Rate: 115200

Parity Check: None

Data Length: 8bits

Stop Bits: 1

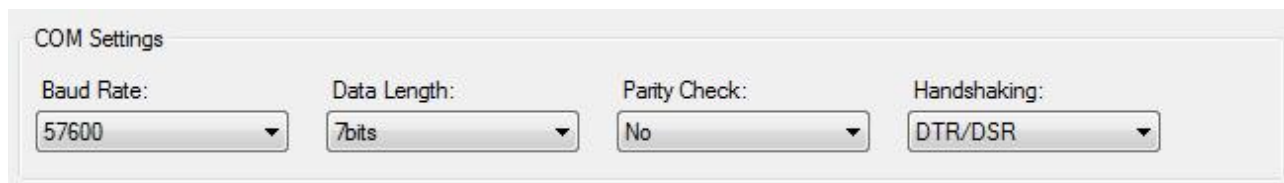
ADDC: DTR/DSR



**Note:** When the DIP setting is set in memory switch mode, the DIP switch at the bottom of the printer need to be disabled.



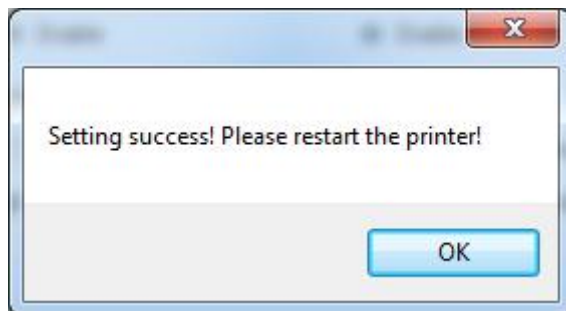
- Modify the COM setting



COM Settings

Baud Rate: 57600 Data Length: 7bits Parity Check: No Handshaking: DTR/DSR

1) After setting the parameters as required, click "Write" and restart the printer.



2) After restarting the printer, open the main menu screen of the tool and click "Modify Printer".



Printer List

SAT DTL58 UE | USB | POS

Add Printer

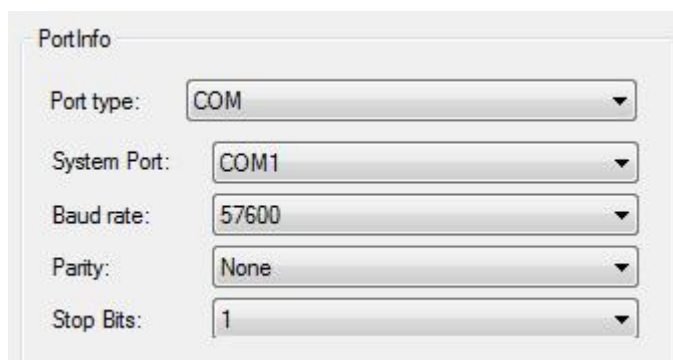
Modify Printer

Delete Printer

Connection Test

Auto Add

3) Select the port category "COM" and set the baud rate to the value "57600" as shown above, and parity "None". This port allows you to print after setup is complete.



PortInfo

Port type: COM

System Port: COM1

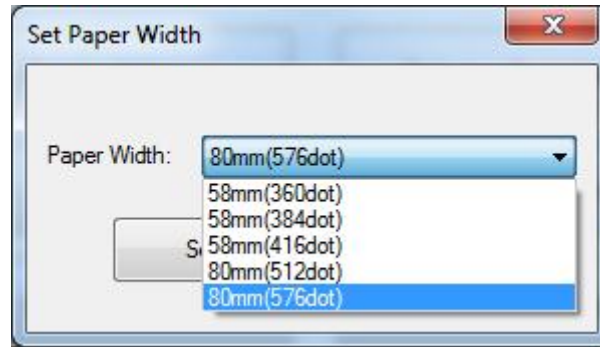
Baud rate: 57600

Parity: None

Stop Bits: 1

**Note:** When the DIP setting is set in memory switch mode, the DIP switch at the bottom of the printer need to be disabled.

### ◆ Paper Width Setting



- 1) 58mm (360dot)
- 2) 58mm (384dot)
- 3) 58mm (416dot)
- 4) 80mm (512dot)
- 5) 80mm (576dot)

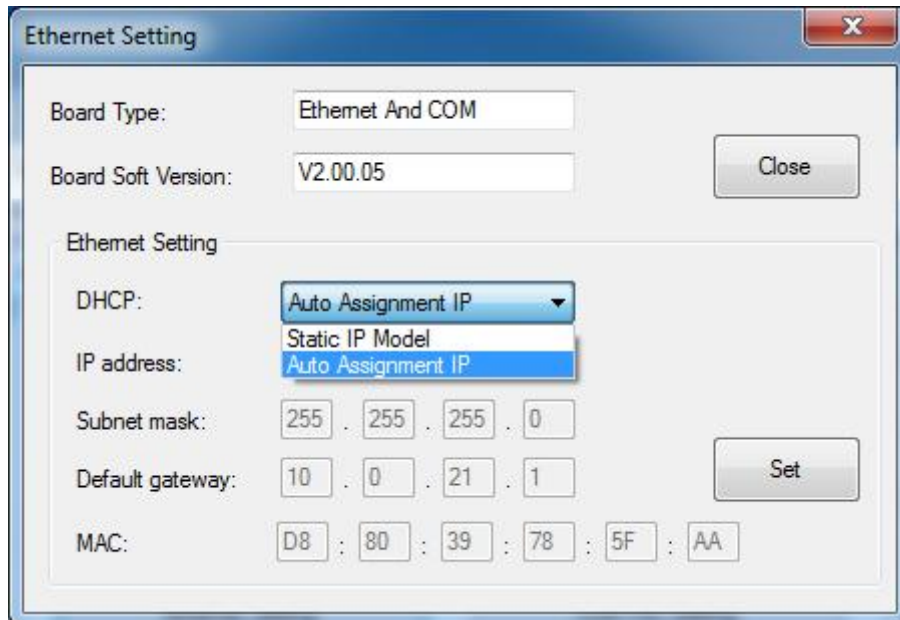
**Note:** Select the paper width above according to the paper print width.

## ◆ Ethernet Setting

Note: This setting is only available for models with Ethernet functionality.

This mode is divided into “Auto Assignment IP” and “Static IP Mode”, select one of the modes to connect as needed.

Note: IP addresses can be obtained from the Self-test page.



**Ethernet Setting**

Board Type: Ethernet And COM

Board Soft Version: V2.00.05

Close

**Ethernet Setting**

DHCP: Auto Assignment IP  
Static IP Model  
Auto Assignment IP

IP address:

Subnet mask: 255 . 255 . 255 . 0

Default gateway: 10 . 0 . 21 . 1

MAC: D8 : 80 : 39 : 78 : 5F : AA

Set

- Static IP Mode

- 1) Change the printer IP address so that the printer IP address (such as: 192.168.0.33) is the same segment as the host IP address (such as: 10.0.21.89).

Here is the illustration:

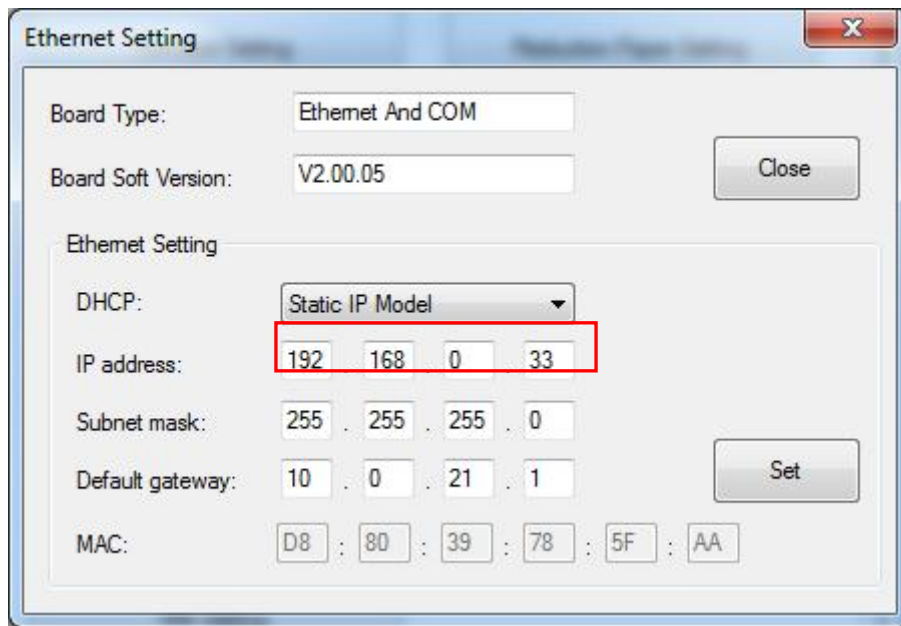


Figure ■ Printer IP Address

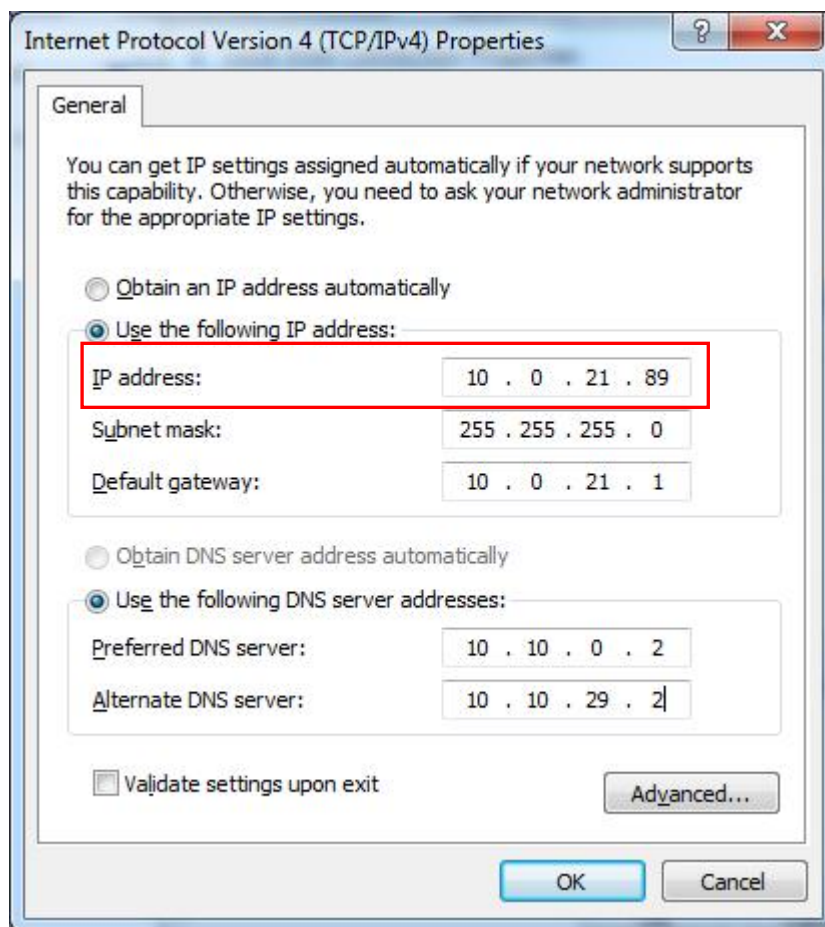


Figure ■ Host IP Address

2) Set the same network segment.

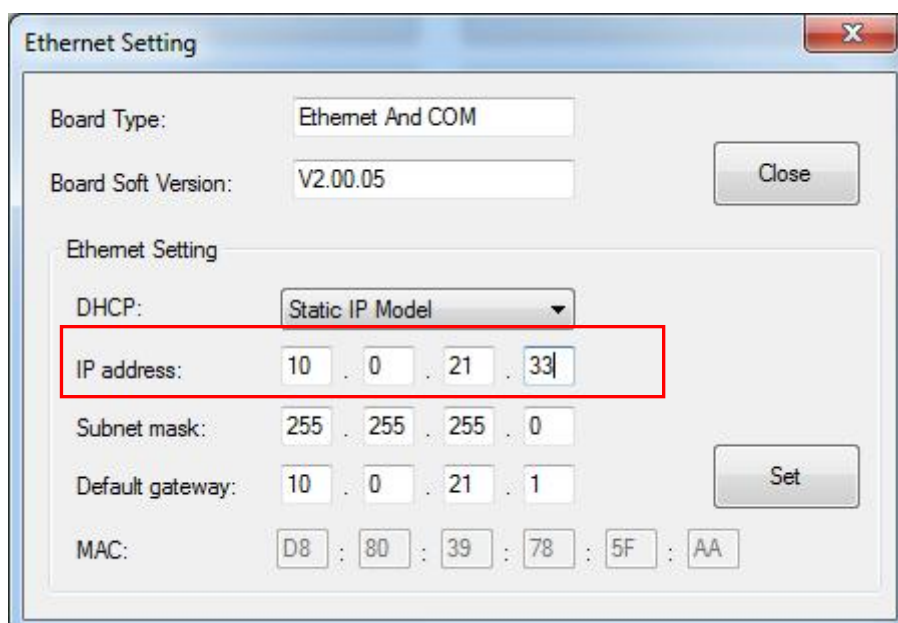
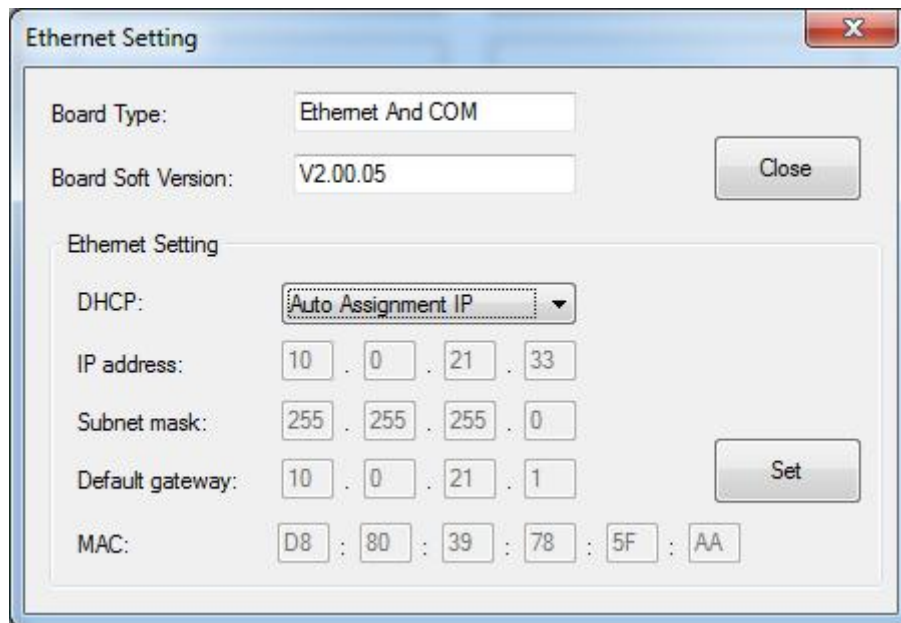


Figure ■ Printer IP Address

- Auto Assignment IP

This mode automatically assigns the IP address to the printer.

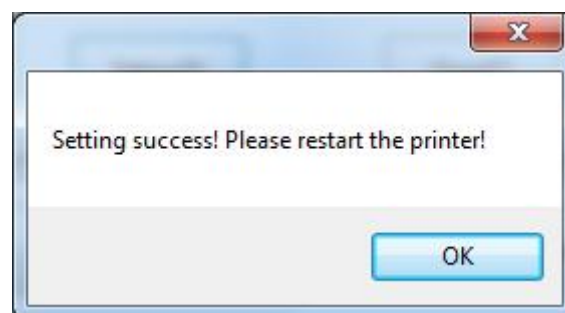


When the settings are complete, click "Write", then restart the printer.

#### ◆ USB Port Setting



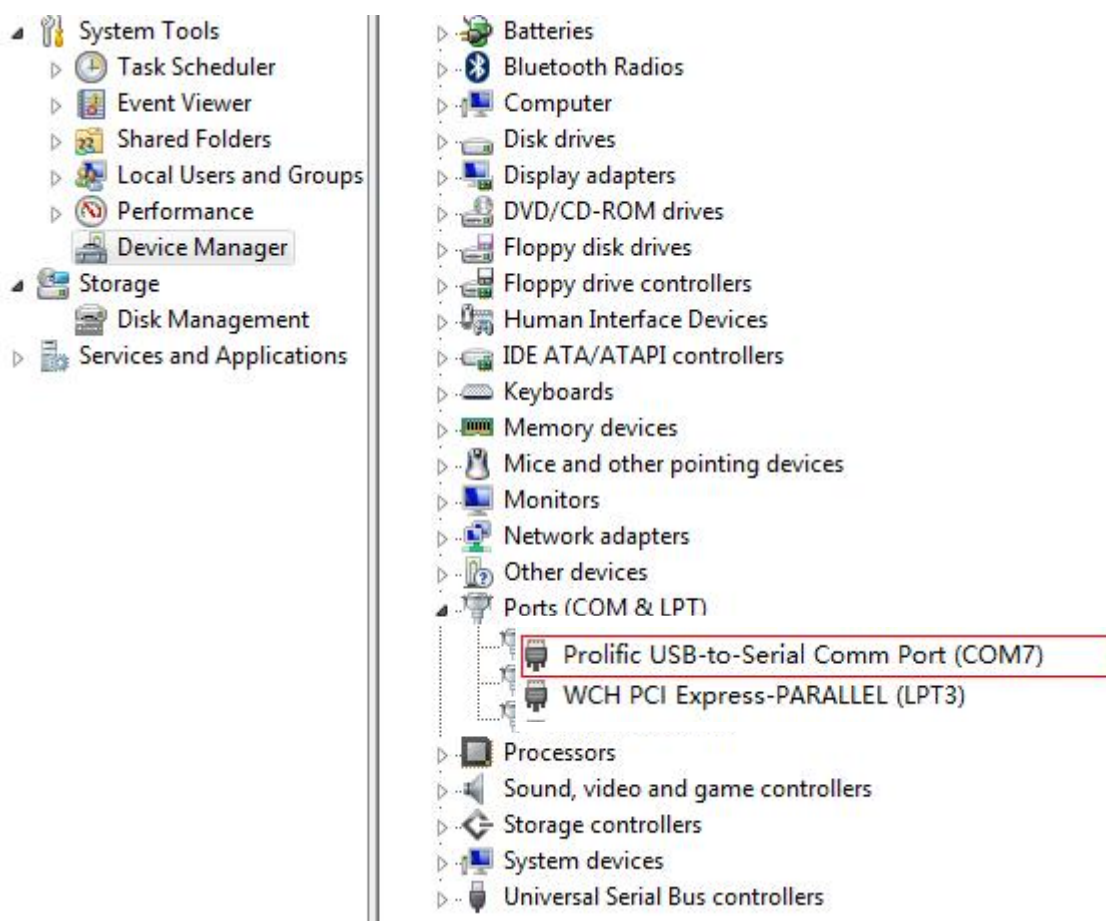
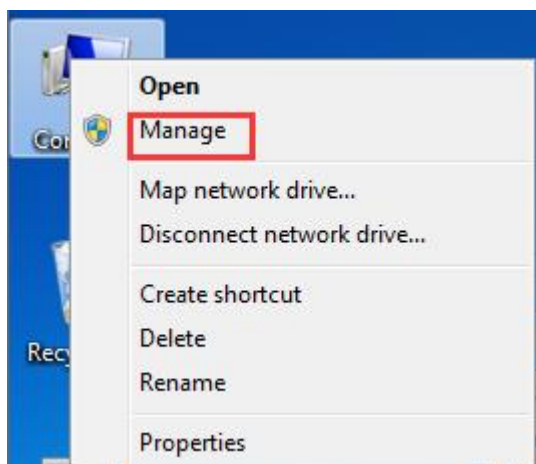
Click "Virtual serial port" setting and restart the printer.



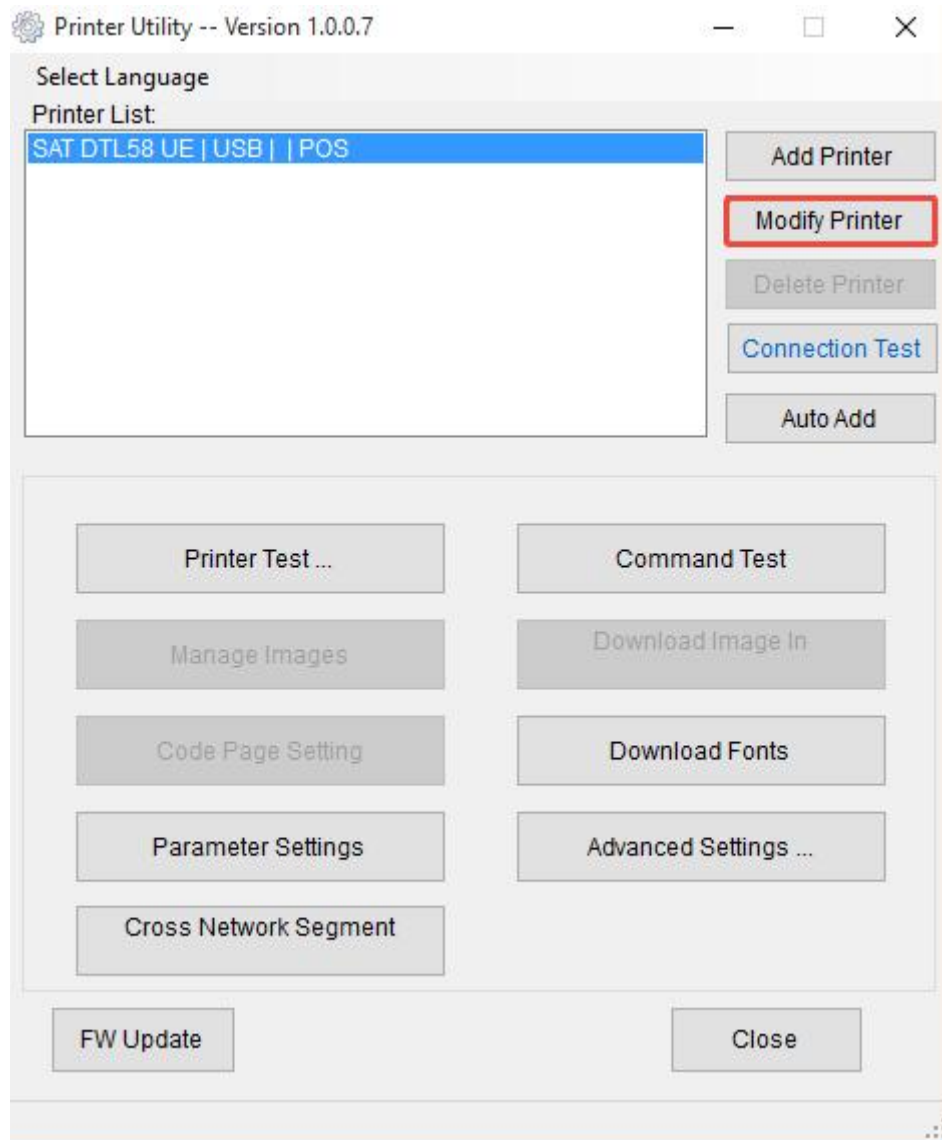
- Check the Virtual Serial Port

1) Right-click the computer and select “Manage” .

2) Click "Device Manager" to view the virtual port. (such as: COM7)



3) Return to the printer utility and click "Modify Printer".





4) Change the port to "COM7".

PortInfo

Port type: COM

System Port: COM2

Baud rate: COM1

Parity: None

Stop Bits: 1

Notes:

PortInfo

Port type: COM

System Port: COM7

Baud rate: 19200

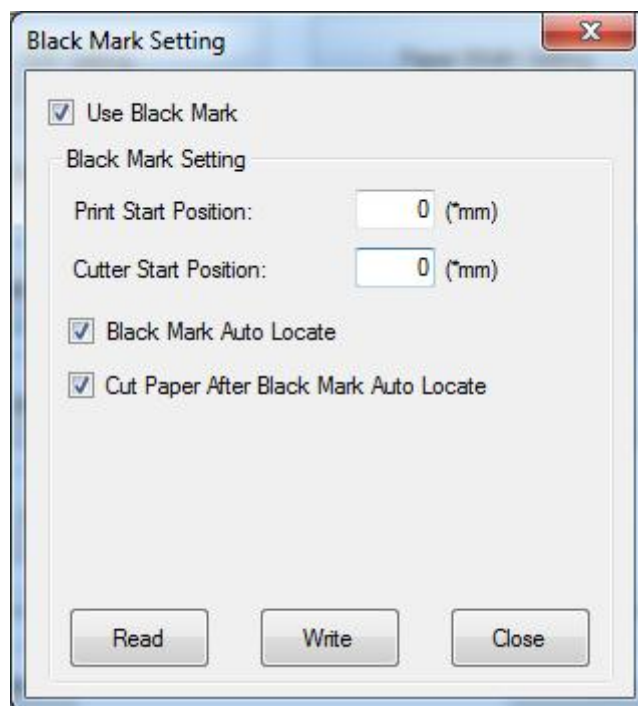
Parity: None

Stop Bits: 1

Notes:

### ◆ Black Mark Setting

When using black mark paper, the black mark can be set, and the printer will automatically locate the black mark position.



#### 1) Print start position ( $\geq -14\text{mm}$ )

$\geq 14\text{mm}$ : the start position of printing is at least 14mm from the bottom edge of the black mark paper.

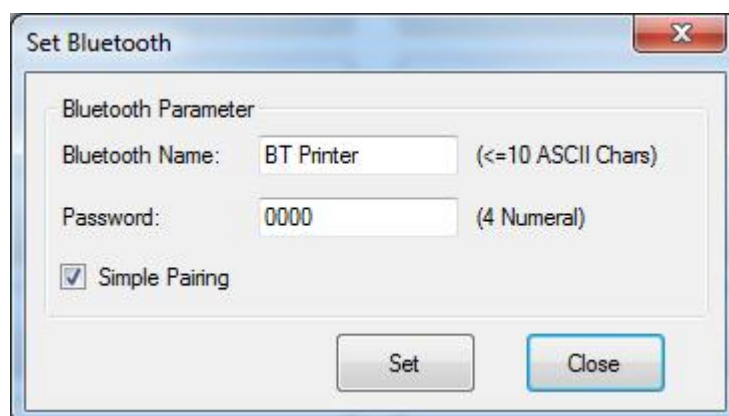
#### 2) Cutter start position ( $\geq -25\text{mm}$ )

$\geq -25\text{mm}$ : the position of cutter is at least 25mm from the bottom edge of the black mark paper.

### ◆ Bluetooth Setting

Note: This setting is only available for models with Bluetooth functionality.

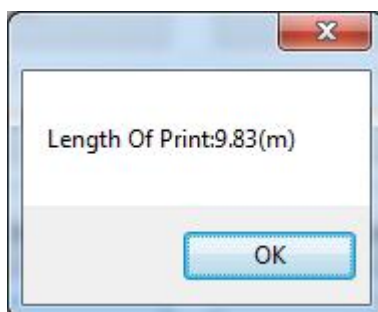
In the below window, type in the new Bluetooth name and password, then click “Set” and restart the printer to take it into effect.



Note: when “Simple Pairing” is ticked, the password is not needed for Bluetooth connection.

When “Simple Pairing” is not ticked, the password is needed for Bluetooth connection.

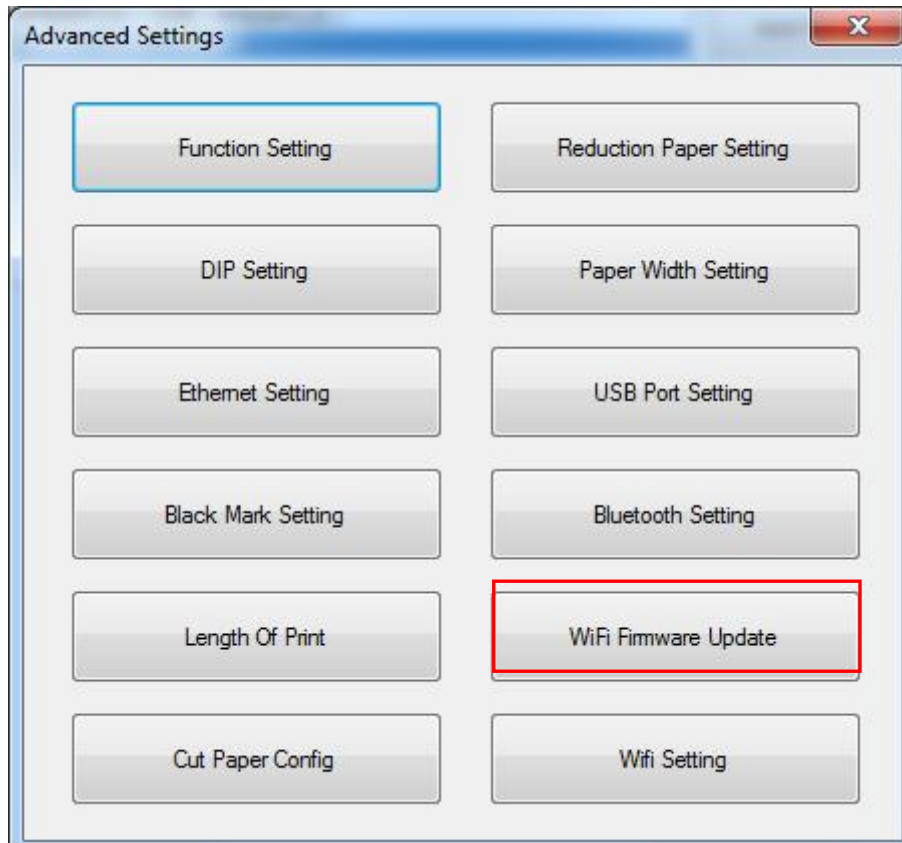
### ◆ Length of Print



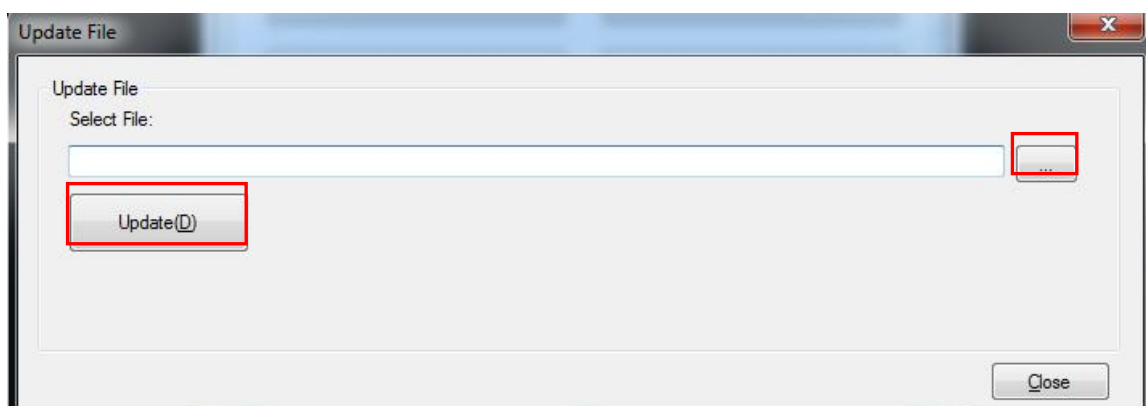
Click “Length of Print” to obtain the length of the paper that the printer has printed.

### ◆ Wi-Fi Firmware Update

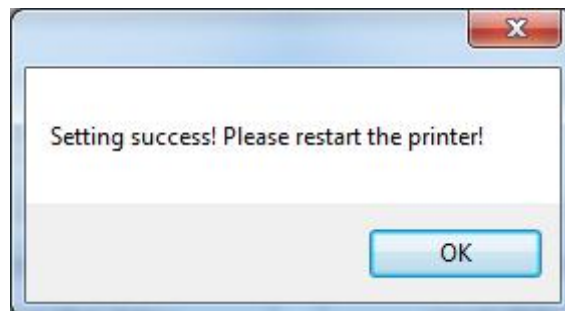
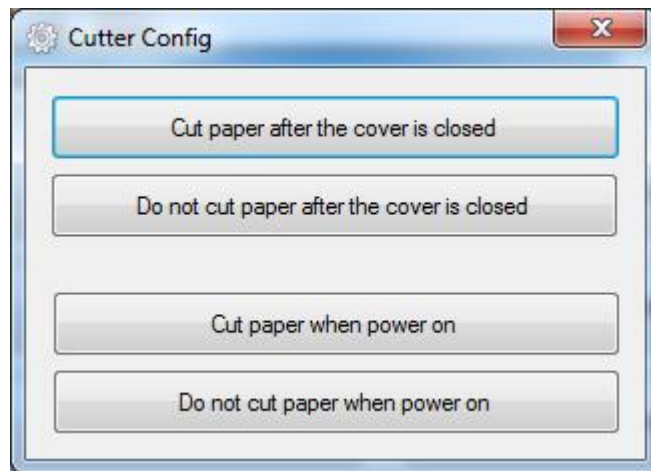
1) Click “WiFi Firmware Update” .



2) Click “...” to choose file and click “Update” .



### ◆ Cut Paper Config



- 1) Cut paper after the cover is closed: the printer automatically cuts the paper after closing the cover.
- 2) Do not cut paper after the cover is closed: the printer does not automatically cut the paper after closing the cover.
- 3) Cut paper when power on: the printer automatically cut paper after the printer is power on.
- 4) Do not cut when power on: the printer does not automatically cut paper after the printer is power on.

### ◆ Wi-Fi Setting



**Note:** This setting is only available for models with Wi-Fi functionality.

**The method to switch between Ethernet and Wi-Fi modes:** In the power-on state, open the top cover, then press and hold the paper feed button and power button at the same time for about 3 seconds. After that, close the cover, so the printer will automatically restart and print out the information about successful mode switching.

**Note: Simultaneous use of Ethernet and Wi-Fi is not supported.**

The setting is only available for those models with Wi-Fi function.

WIFI Config

Module MAC:

Module Version:

Host Name:

Wifi Mode:

Scan

SSID:

DHCP:

IP Address:

Default gateway

Subnet mask

Password:

☐ Show password

Read

Set

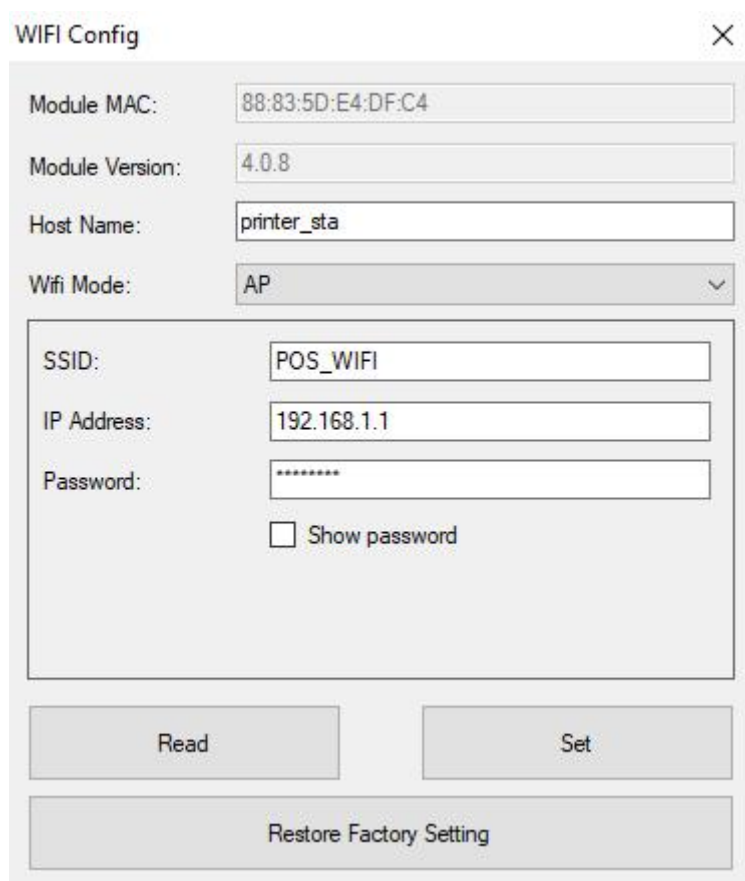
Restore Factory Setting

1. Click “Read” to obtain the current status of printer.



1. Wi-Fi Module supports AP mode and STA mode, and default as AP mode.

■ Under AP mode, printer will be used as a wireless network access point, computer or other mobile devices can connect to this Wi-Fi.



The image shows a 'WIFI Config' dialog box with the following fields and controls:

- Module MAC: 88:83:5D:E4:DF:C4
- Module Version: 4.0.8
- Host Name: printer\_sta
- Wifi Mode: AP (dropdown menu)
- SSID: POS\_WIFI
- IP Address: 192.168.1.1
- Password: (masked with asterisks)
- ☐ Show password
- Buttons: Read, Set, and Restore Factory Setting

<b>Module Version</b>	Current Module Version
<b>WiFi Mode</b>	Supports “AP” mode and “STA” mode, and default as “AP” mode
<b>SSID</b>	Modifiable, default as “POS_WIFI”
<b>IP Address</b>	Modifiable, default as “192.168.1.1”

If it’s necessary to modify SSID and IP address, click “Set” after modifying, then restart the printer.

WIFI Config

Module MAC: 88:83:5D:E4:DF:C4

Module Version: 4.0.8

Host Name: printer\_sta

Wifi Mode: AP

SSID: POS\_WIFI

IP Address: 192.168.1.1

Password:

Show password

Read

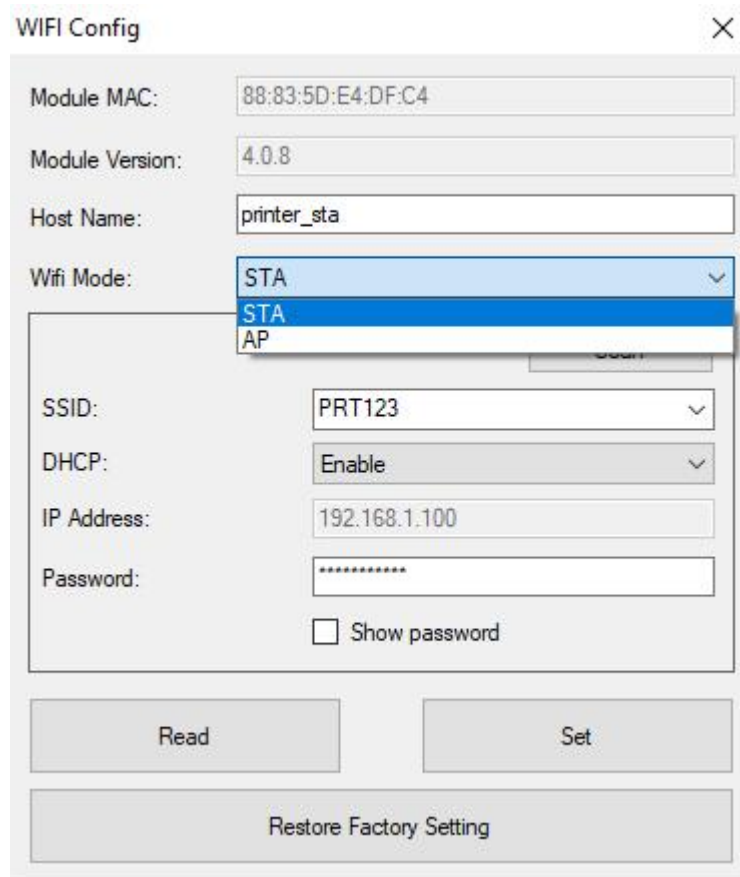
Set

Restore Factory Setting



■ When using the STA mode, take the printer as a terminal. The PC or mobile devices and printer need to be on the same LAN.

- Choose STA under Wi-Fi mode, the interface is shifted to the following screenshot:



The screenshot shows the 'WIFI Config' window with the following fields and options:

- Module MAC:** 88:83:5D:E4:DF:C4
- Module Version:** 4.0.8
- Host Name:** printer\_sta
- Wifi Mode:** A dropdown menu is open, showing three options: STA (highlighted in blue), STA, and AP.
- SSID:** PRT123
- DHCP:** Enable
- IP Address:** 192.168.1.100
- Password:** A field with masked characters (dots).
- ☐ Show password
- Buttons:** Read, Set, and a large button at the bottom labeled 'Restore Factory Setting'.

- Click “Scan”, choose a connectable “hot spot” from SSID options. type in the password of Wi-Fi that you want to connect to.
- Click “Set” . After it is set successfully, the printer would restart automatically.

WIFI Config

Module MAC:

3A:13:24:33:25:C2

Module Version:

V0.0.5.2

Host Name:

Wifi Mode:

STA

Scan

SSID:

prtfcet123

DHCP:

Enable

IP Address:

192.168.1.1

Default gateway

192.168.1.1

Subnet mask

255.255.255.0

Password:

\*\*\*\*\*

Show password

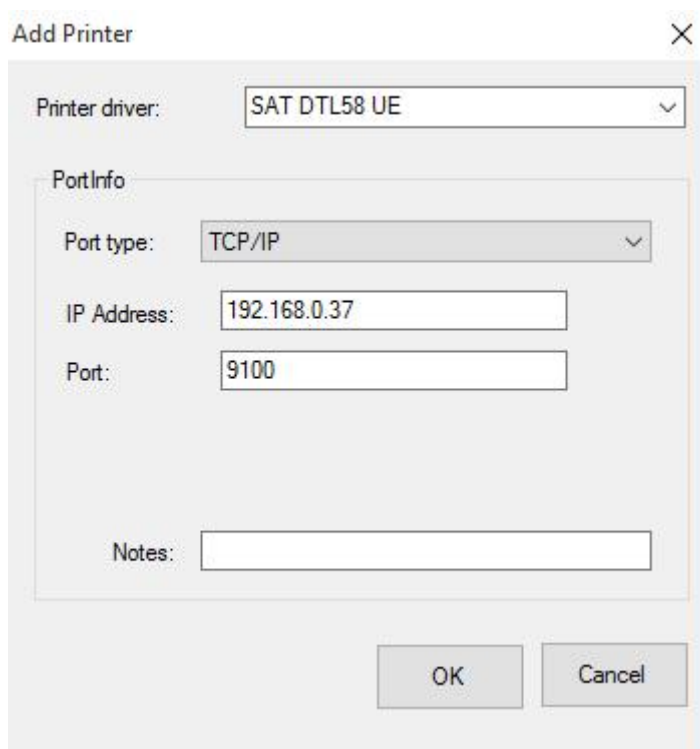
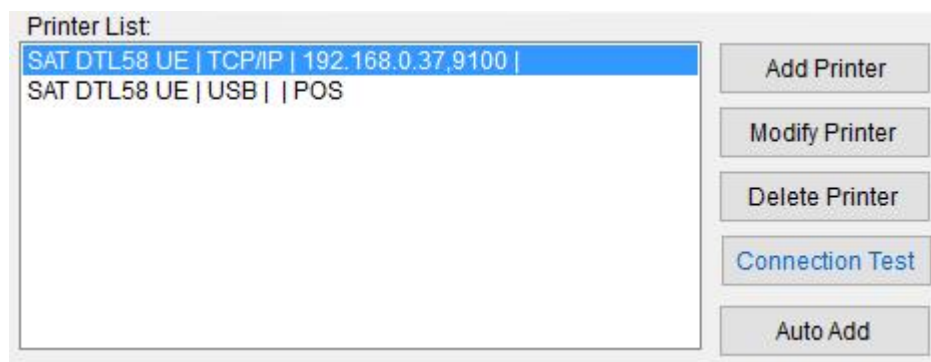
Read

Set

Restore Factory Setting

<b>SSID</b>	The SSID name that is chosen after scanning “hot spot”
<b>DHCP</b>	Enable/Disable dynamic allocation of IP
<b>IP Address</b>	<p>When DHCP is at Enable status, IP address will be allocated automatically, no need to do the setting;</p> <p>When DHCP is at Disable status, IP address must be set to the same LAN with the Wi-Fi that you connect to</p>
<b>Default gateway</b>	<p>When DHCP is at Enable status, default gateway will be allocated automatically, no need to do the setting;</p> <p>When DHCP is at Disable status, default gateway can be input</p>
<b>Subnet mask</b>	<p>When DHCP is at Enable status, subnet mask will be allocated automatically, no need to do the setting;</p> <p>When DHCP is at Disable status, subnet mask can be input</p>

- After the printer is restarted, short press the power button 3 times, so that the current Wi-Fi parameter information can be printed.
- After completing the setting, connect the computer to the Wi-Fi that the printer connects to, click “Modify Printer” , choose “TCP/IP” , and set the IP address the same as the printer’ s IP address, then click “OK” .



- Click “Connection Test” to check if the setting is successful.



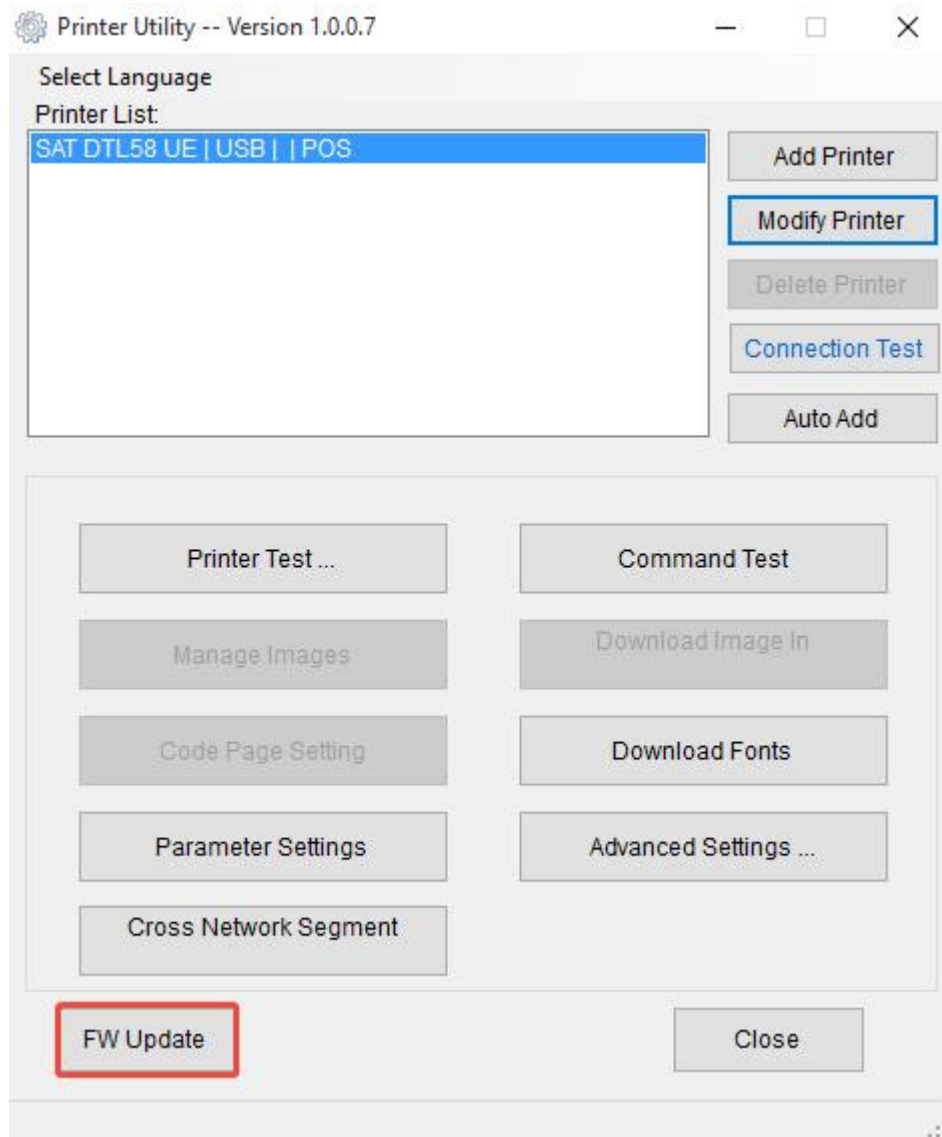


Notes: When the printer is failed to connect with its master devices, please check if the settings are correct, and please check if the master devices and the printer are on the same network segment. When parameter setting error occurs, which leads to the failed connection, please reset the Wi-Fi parameter by the following way 1) or 2):

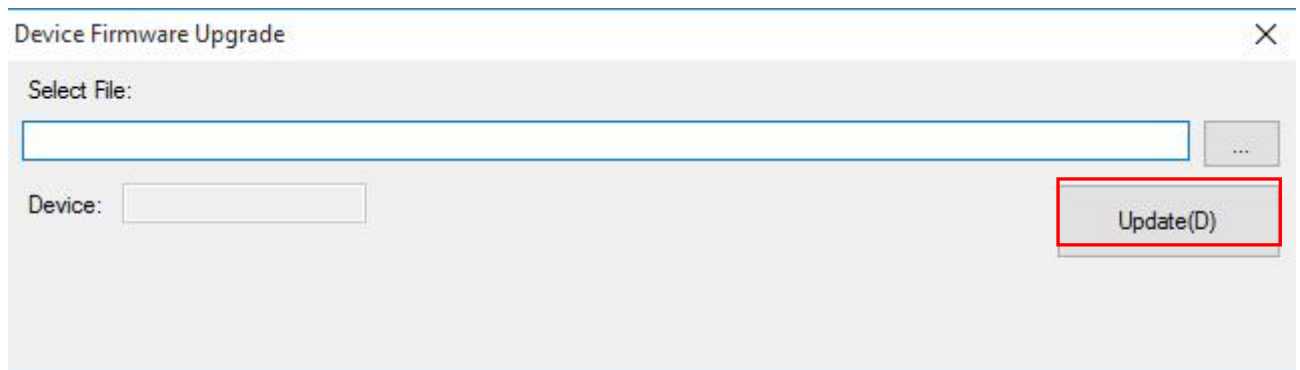
- 1) For ,models with built-in Wi-Fi module, shortly press the power button five times, so that the Wi-Fi parameter would be reset. The printer would restart automatically, so the reset is taken into effect.
- 2) For other models of POS printers (with external Wi-Fi module), shortly press the Function/Reset Button (at the interface board) for five times, and the Wi-Fi parameter would be reset. The printer would restart automatically, so the reset is taken into effect.

## 6.3 Firmware Update

- 1) Click “FW Update” .

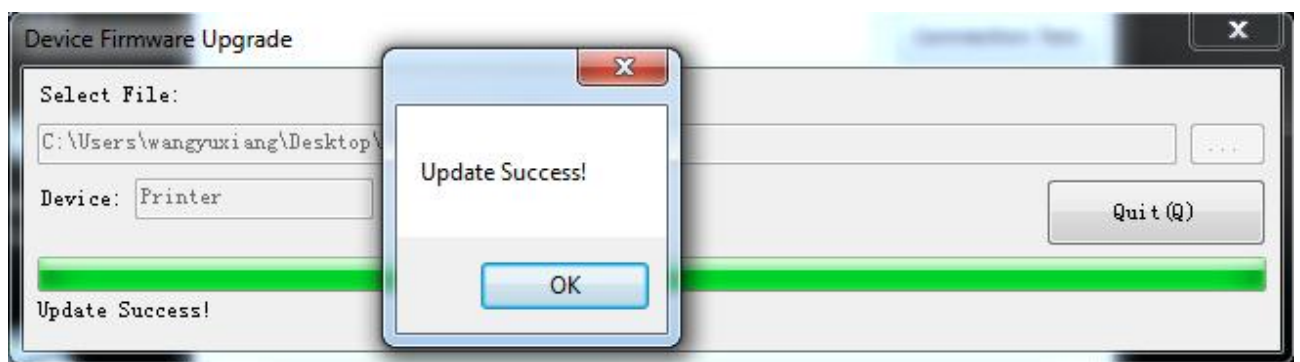


2) When the device appears "Printer", select the Dfu file.



3) Click "Update" .

4) Update success.



5) Restart the printer.

## Chapter 7 WINDOWS DRIVER INSTRUCTION

### 7.1 Introduction

The following operating systems are supported for usage.

- Microsoft Windows 11 iot
- Microsoft Windows 10 (32 bit/64 bit)
- Microsoft Windows 8 (32 bit/64 bit)
- Microsoft Windows 7 (32 bit/64 bit)
- Microsoft Windows Vista (32 bit/64 bit)
- Microsoft Windows Server 2019

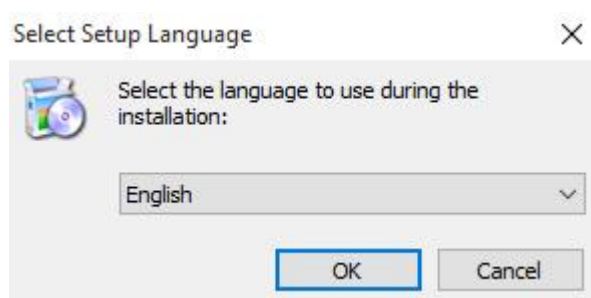
### 7.2 Driver Installation



Note:

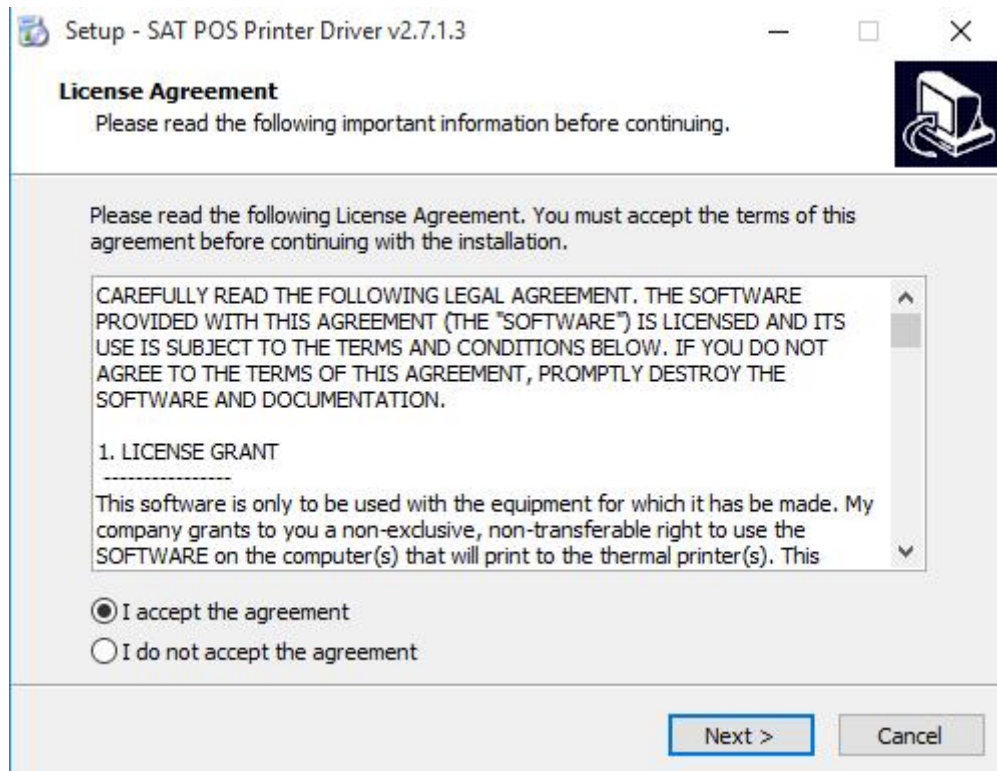
- Under different operating system, the screen has slight difference. The following example is based on the Windows 10 operating system.
- It is recommended to close the relevant security protection software before installation to avoid affecting the installation of the driver.

1. Select one interface to connect your printer to computer.
2. Turn on the printer check if it successfully connected to computer.
3. Double click Windows Driver Software.
4. Select the language and click 'OK'.

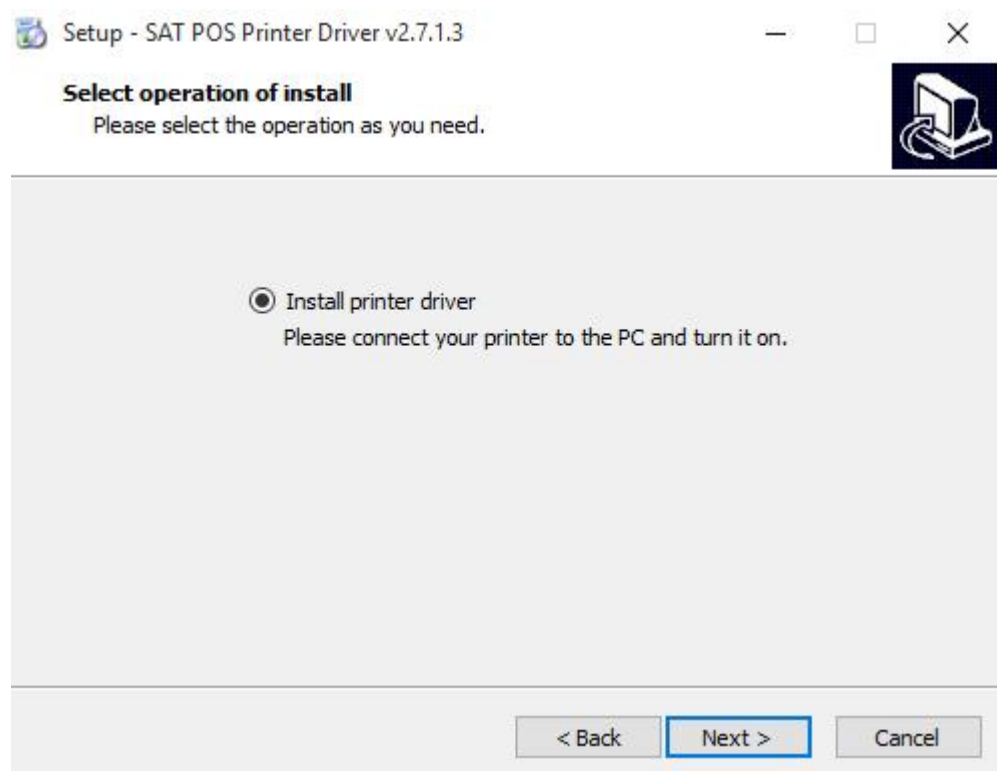




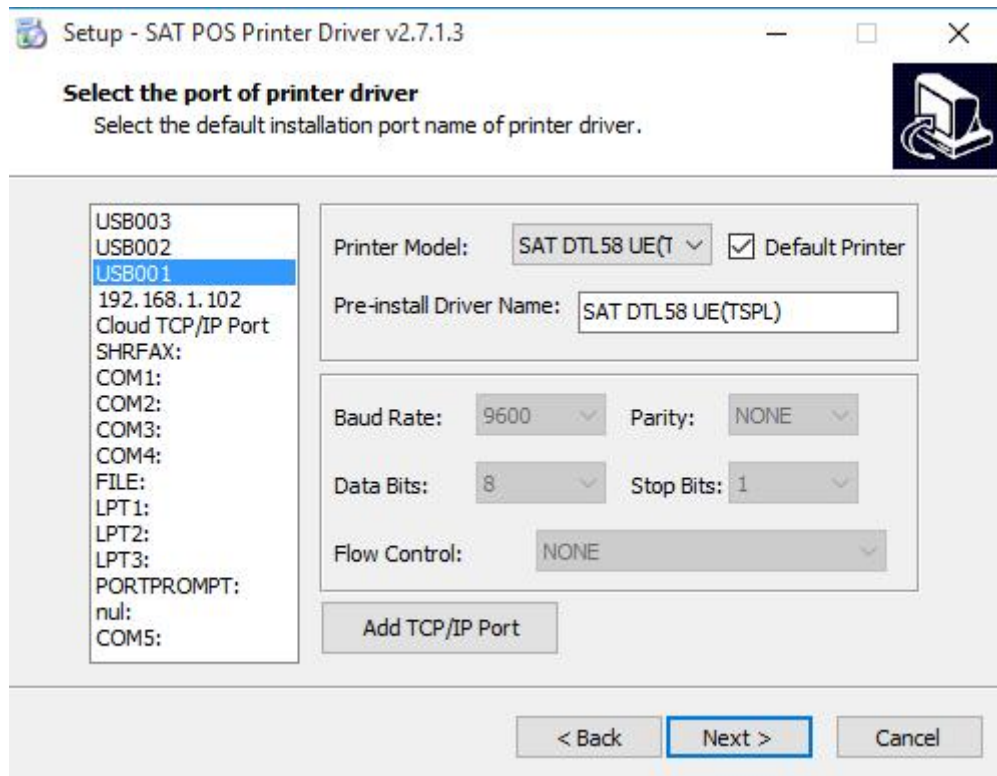
5. Read and agree the license agreement. Then click "Next".



6. Select installation type.



7. Select the model and click 'Next'.



**Note:** If you have connected the printer to computer, it will detect and install the driver automatically. (eg.: USB port).

7. Click "Finish".



8. After installation, the icon will be found in "Start" → "Settings" → "Devices" → "Devices and printers".

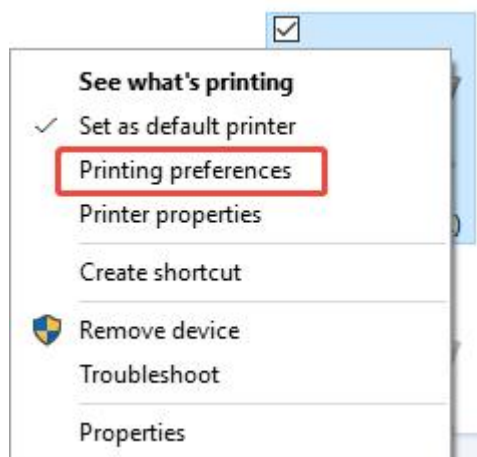


**Note:** If already installed the driver (No matter what kind of port), when you connect the printer with computer via USB, it will create a USB port automatically.

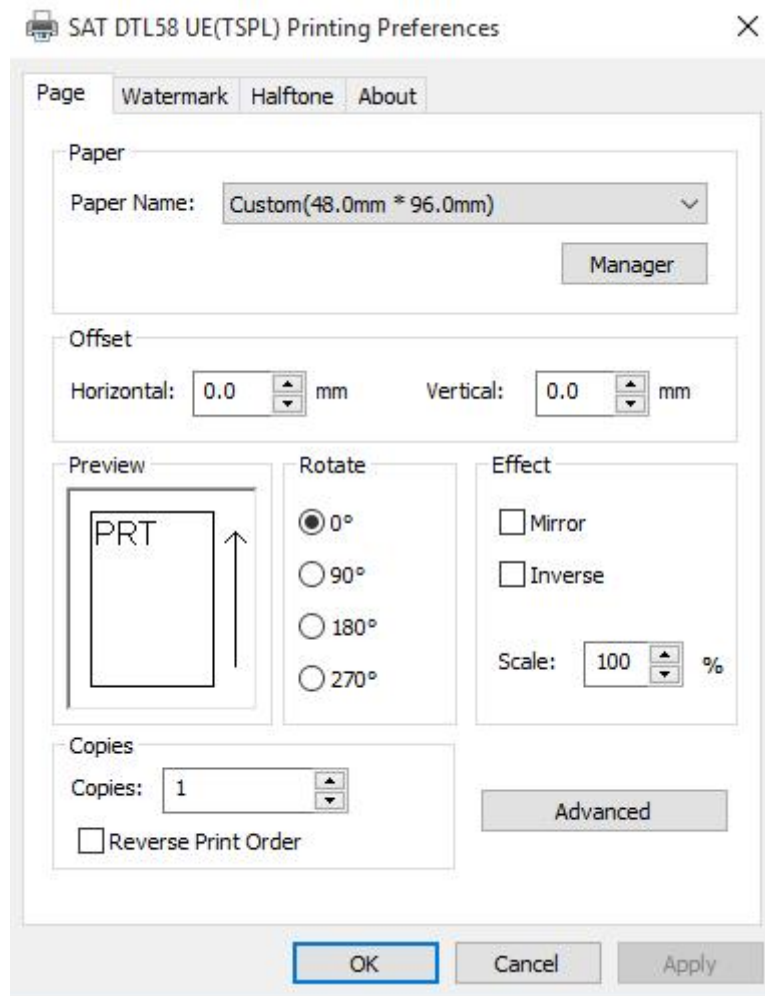
## 7.3 Usage

### 7.3.1 Printing Preferences

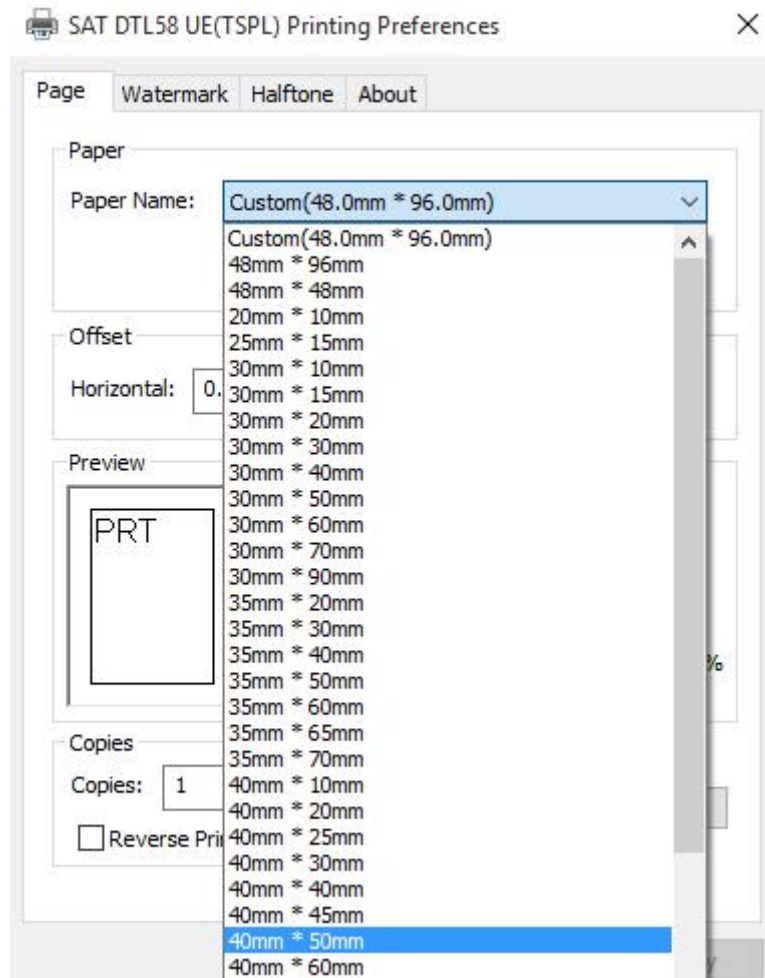
1. Click "Start" → "Settings" → "Devices" → "Devices and printers". Right click icon and choose "Printing preferences".



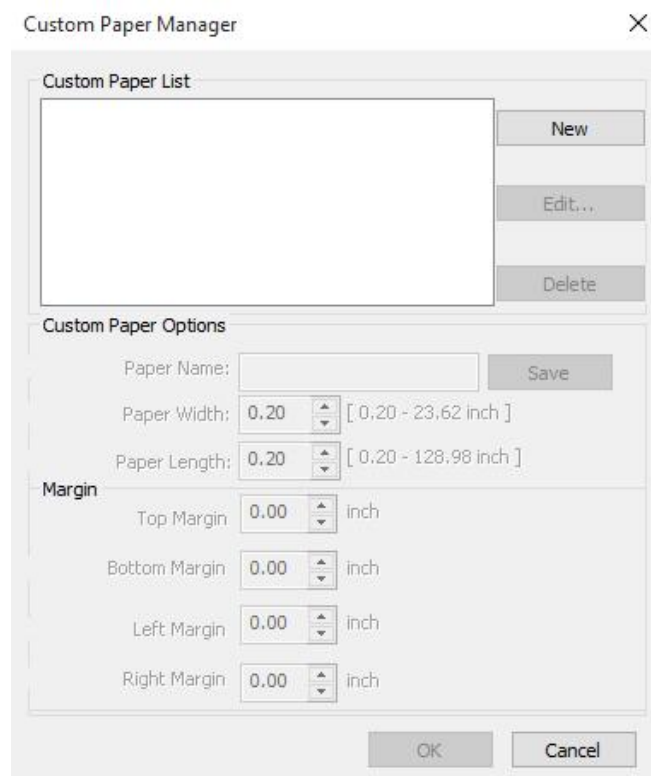
2. According to different needs, set up the page.



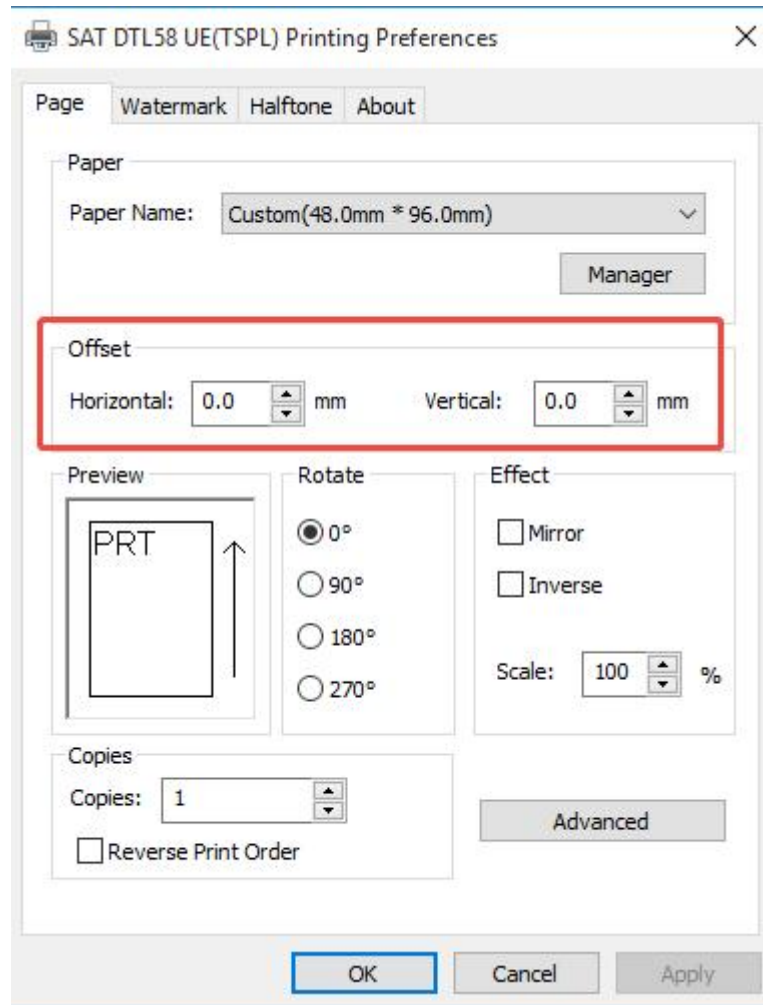
- Click "Page Name" and select the paper type.



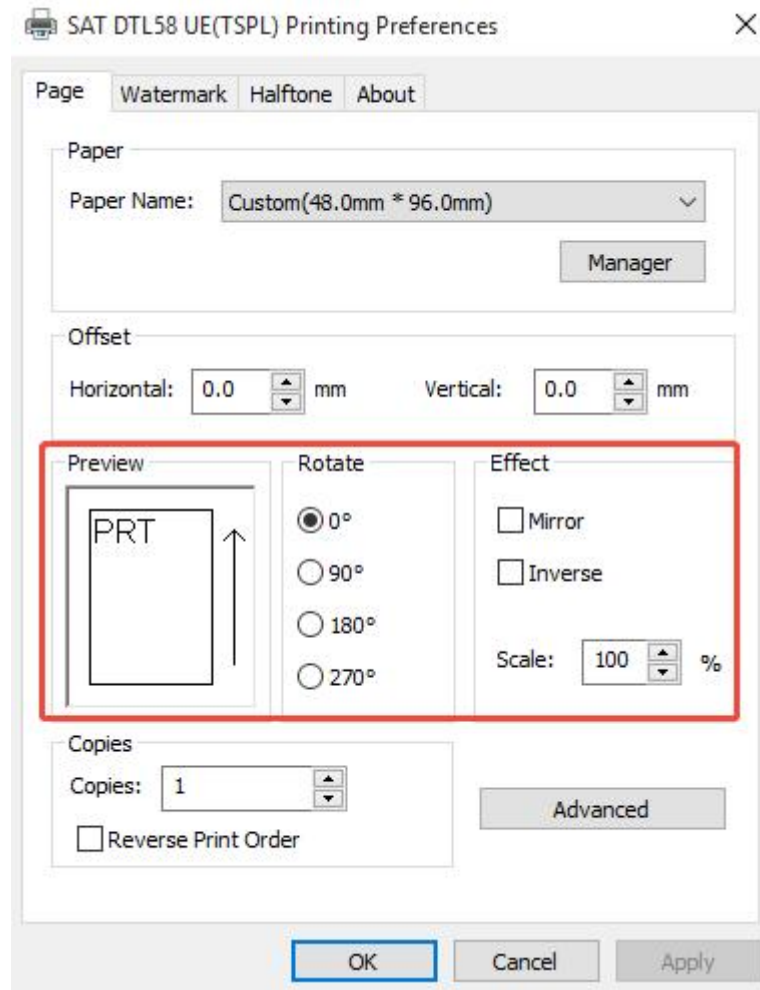
- Click "Custom", and set up a new stock.



- Set "Horizontal" or "Vertical", edit offset effect.

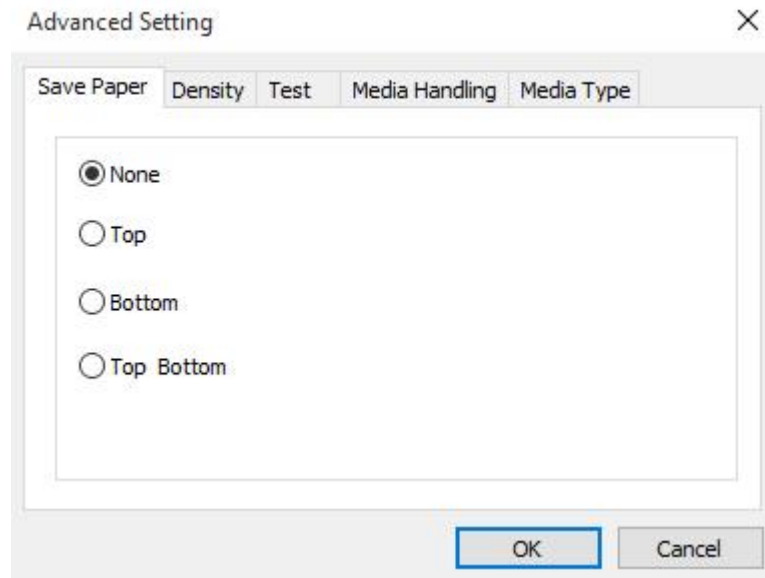


- Choose "Orientation" or "Effects", showed in the "Preview".

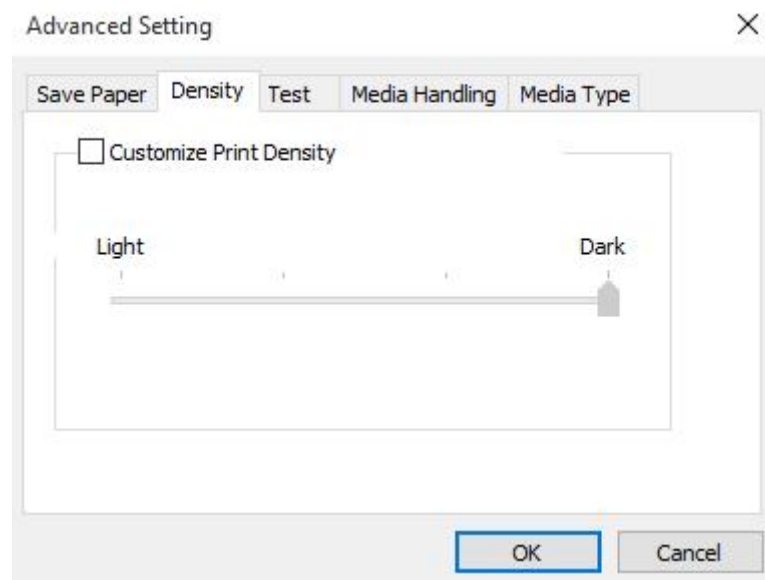


- Choose "Advanced".

Set "Save Paper":

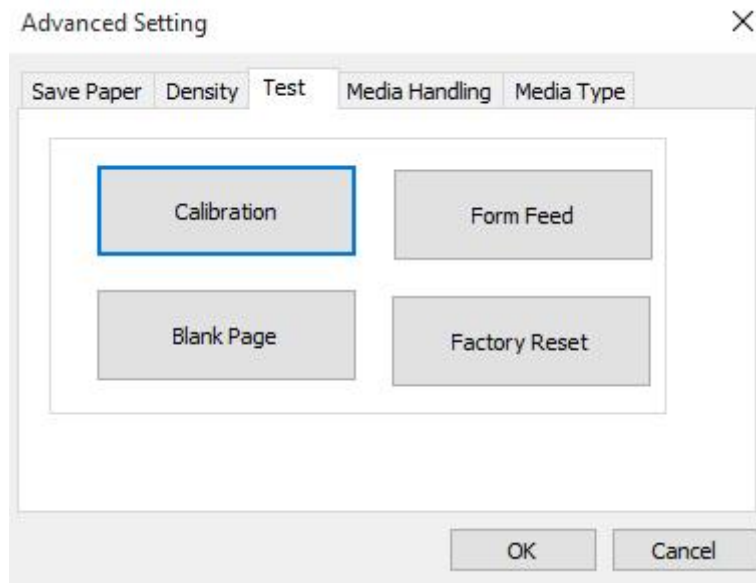


Set "Density":

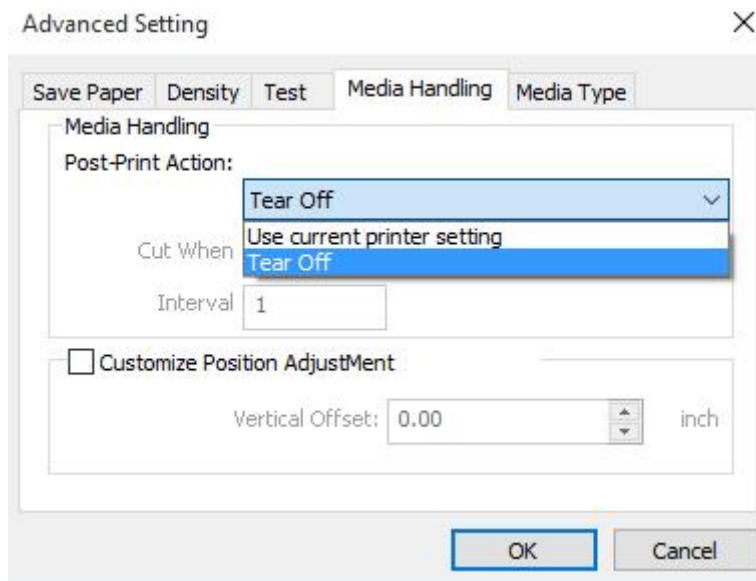




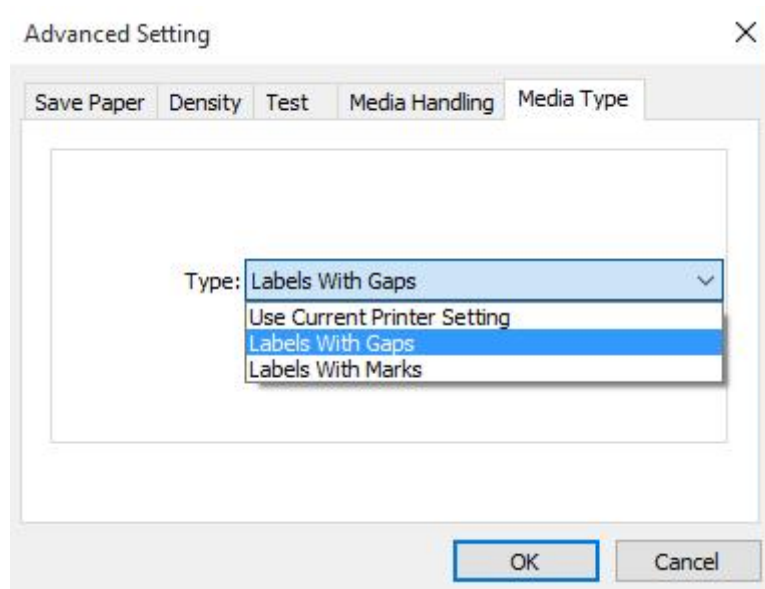
Set "Test":



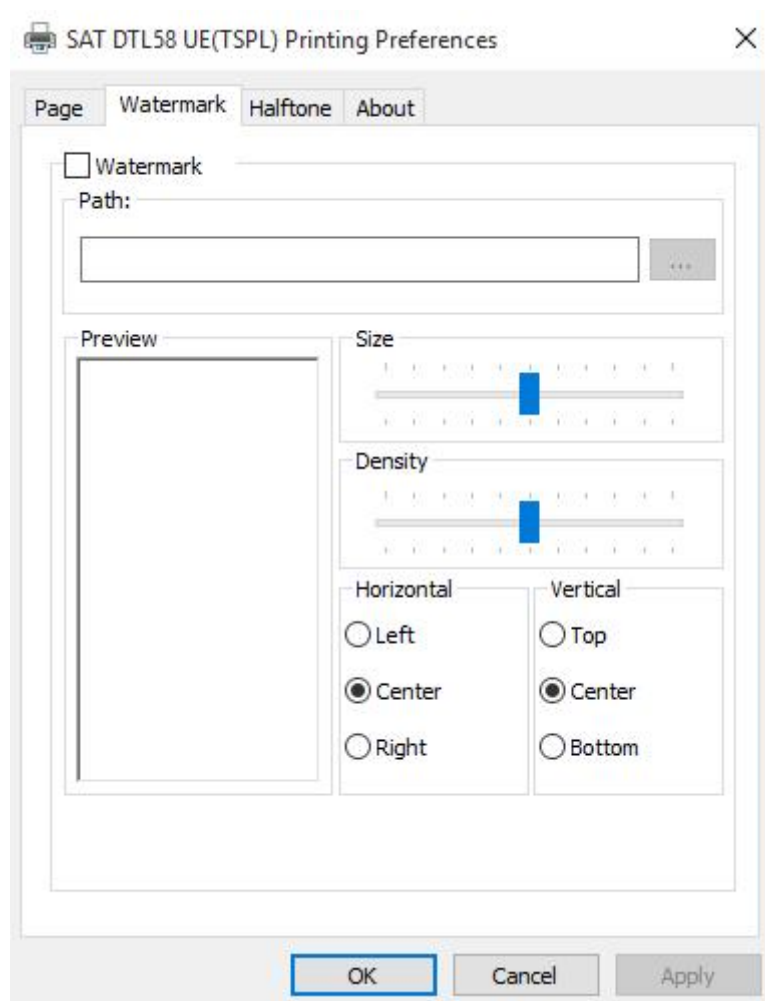
Set "Media Handling":



Set "Media Type":



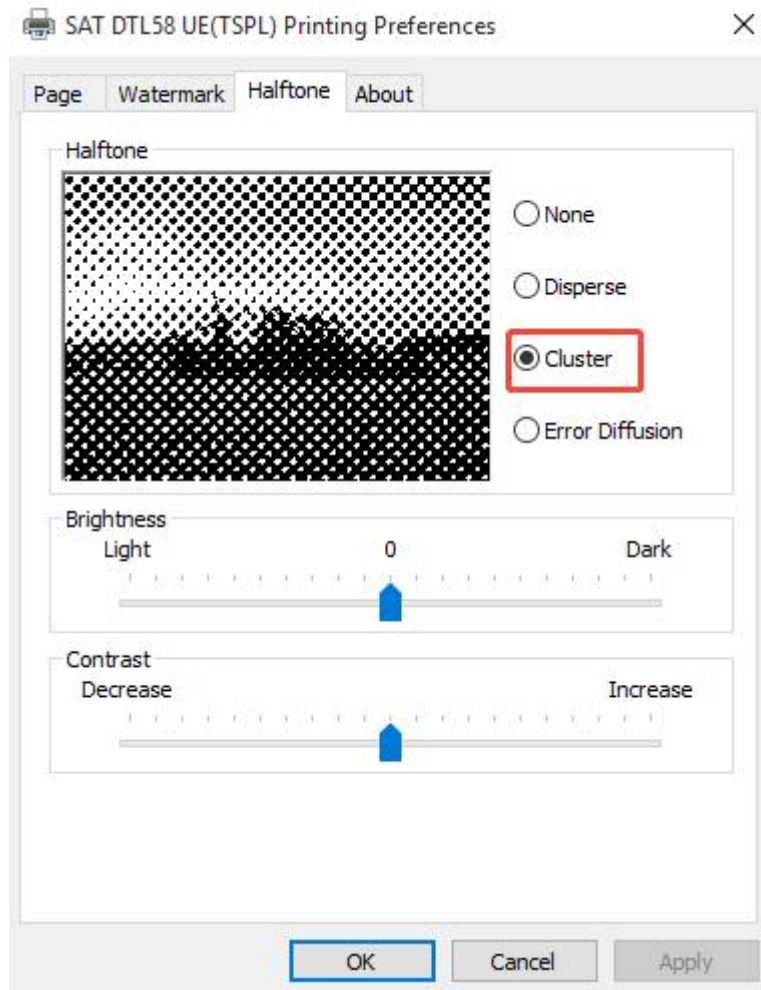
2.Set "Watermark"(BMP format file is recommended).



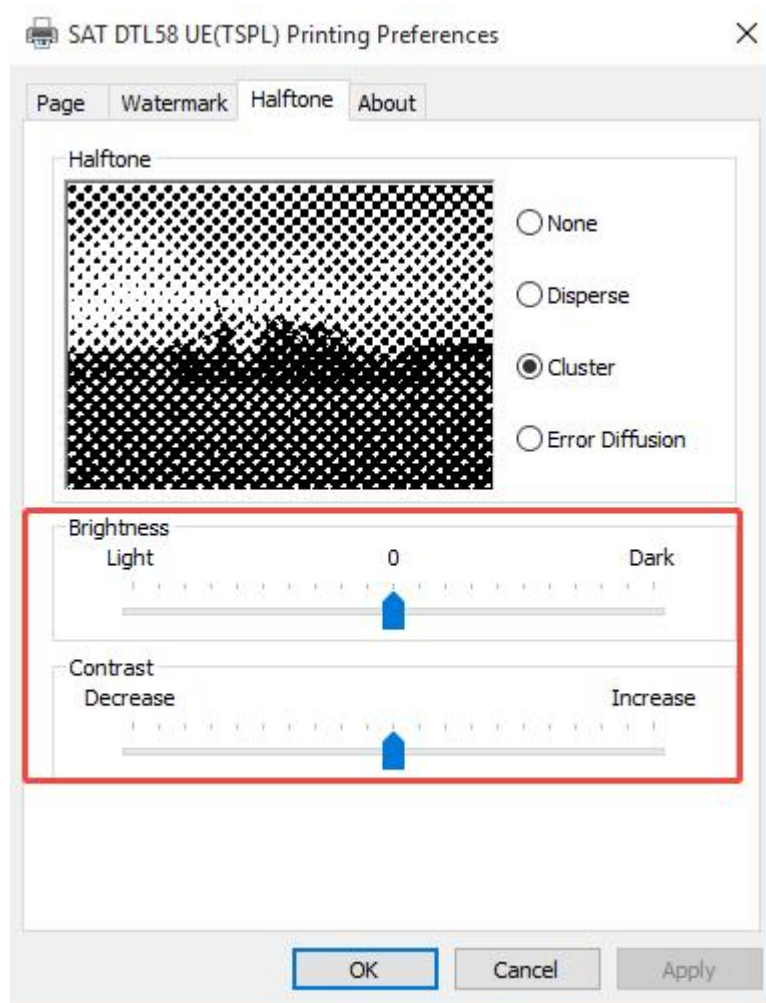
3.Click "Halftone".



●Set "Halftone":

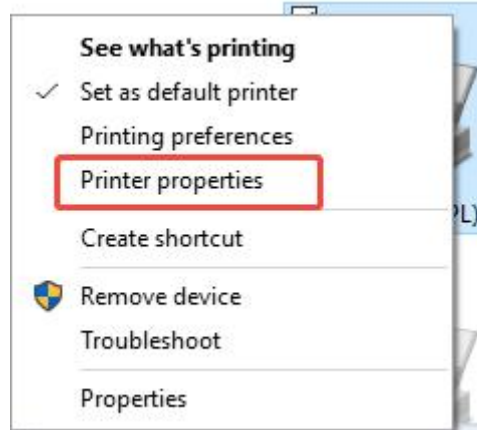


- Set "Brightness" and "Contrast":

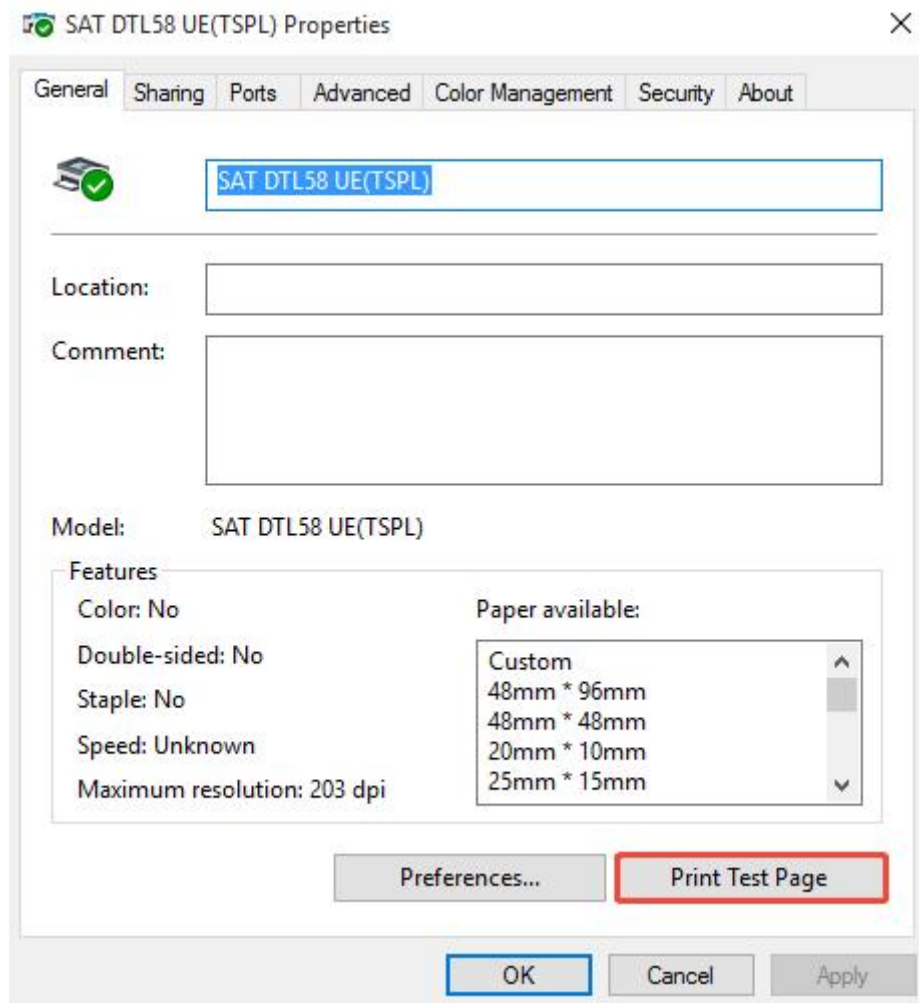


### 7.3.2 Printer Properties

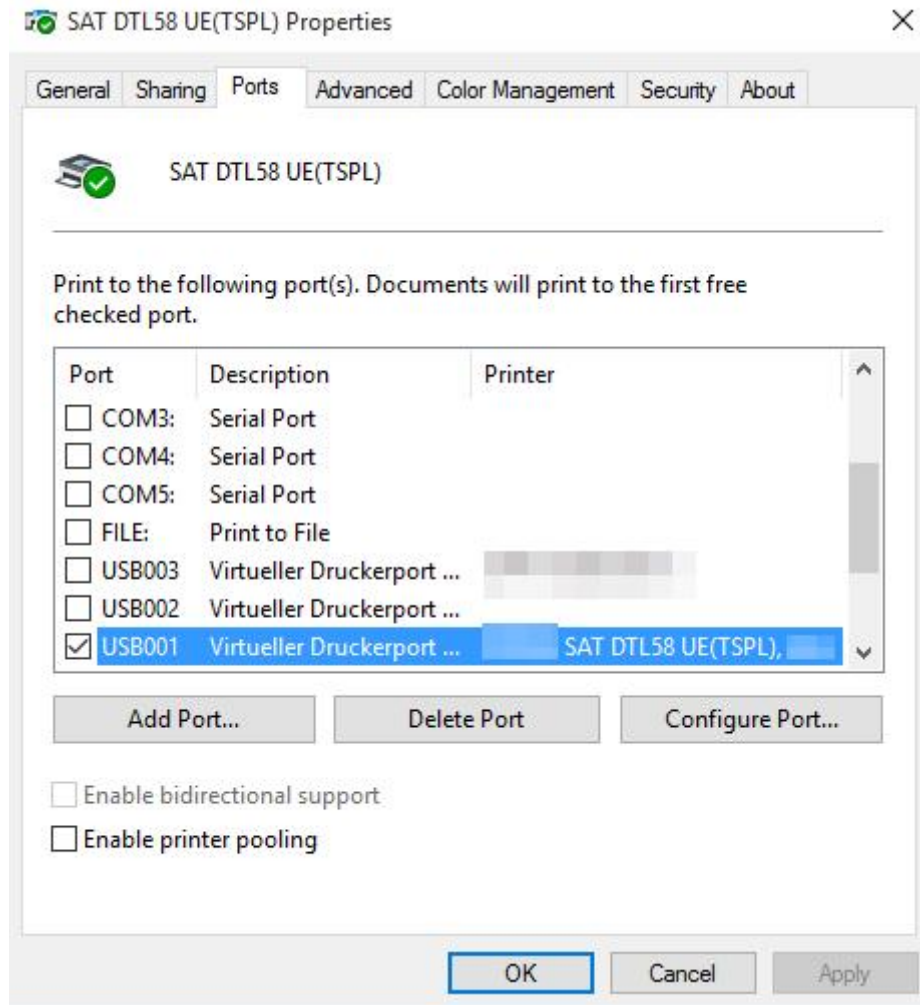
1. Click "Start→ "Settings" → "Devices"→"Devices and printers". Right click icon and choose "Printing properties".



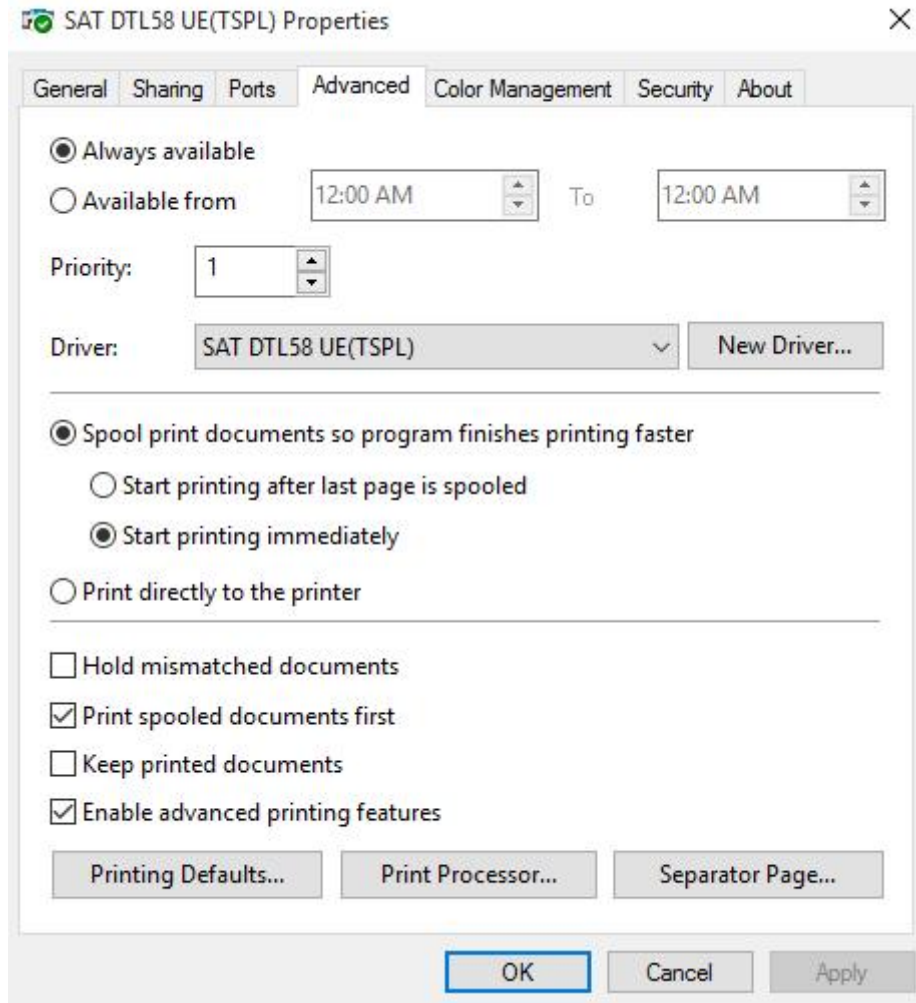
2. Click "General"→"Print Test Page", and printer will print labels with current settings.



3. Click "Ports", then choose the port needed.



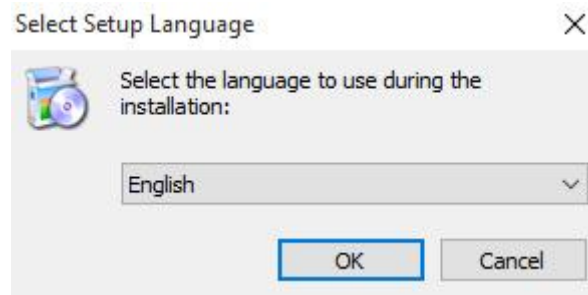
4. Click "Advanced" to set the time the printer can be used.



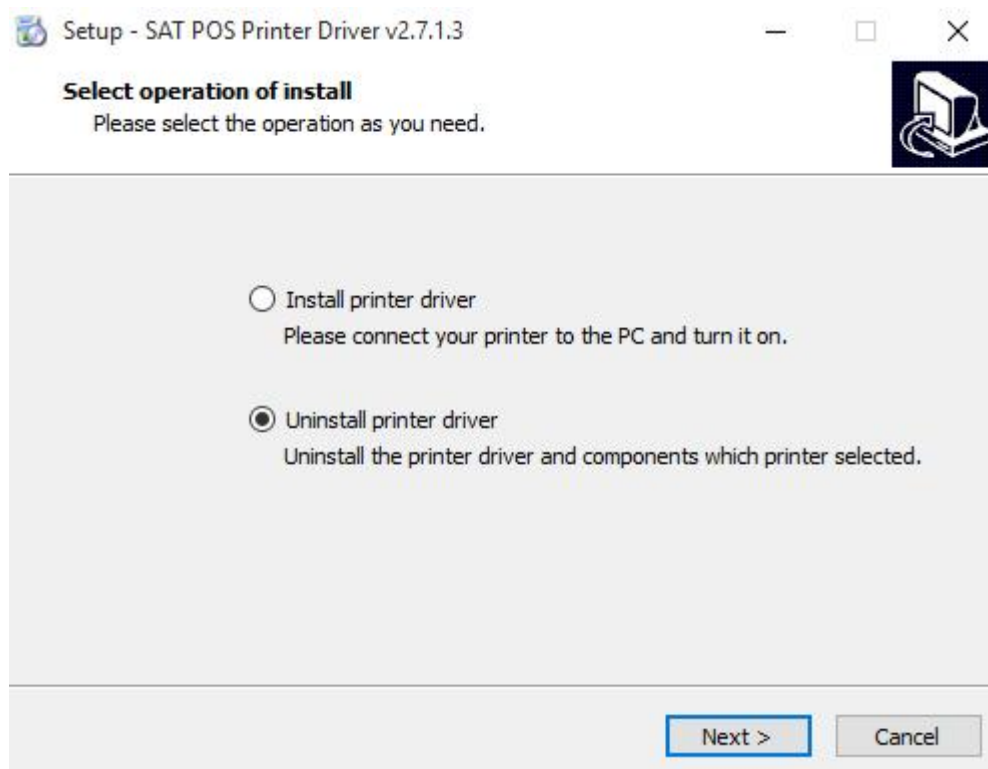


## 7.4 Uninstall Driver

1. Double click Windows Driver,then click "OK".



2. Select "Uninstall printer driver", then click "Next".



3. Choose "SAT DTL58", then click "Next".

