



Utility Tool Instruction

POS80 Series

Rev.1.3

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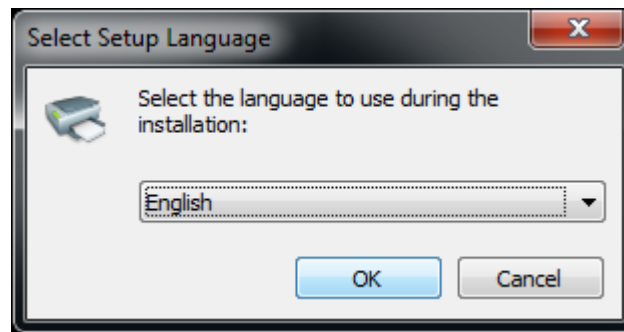
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HPRT Utility Tool is applicable to the following operating system:

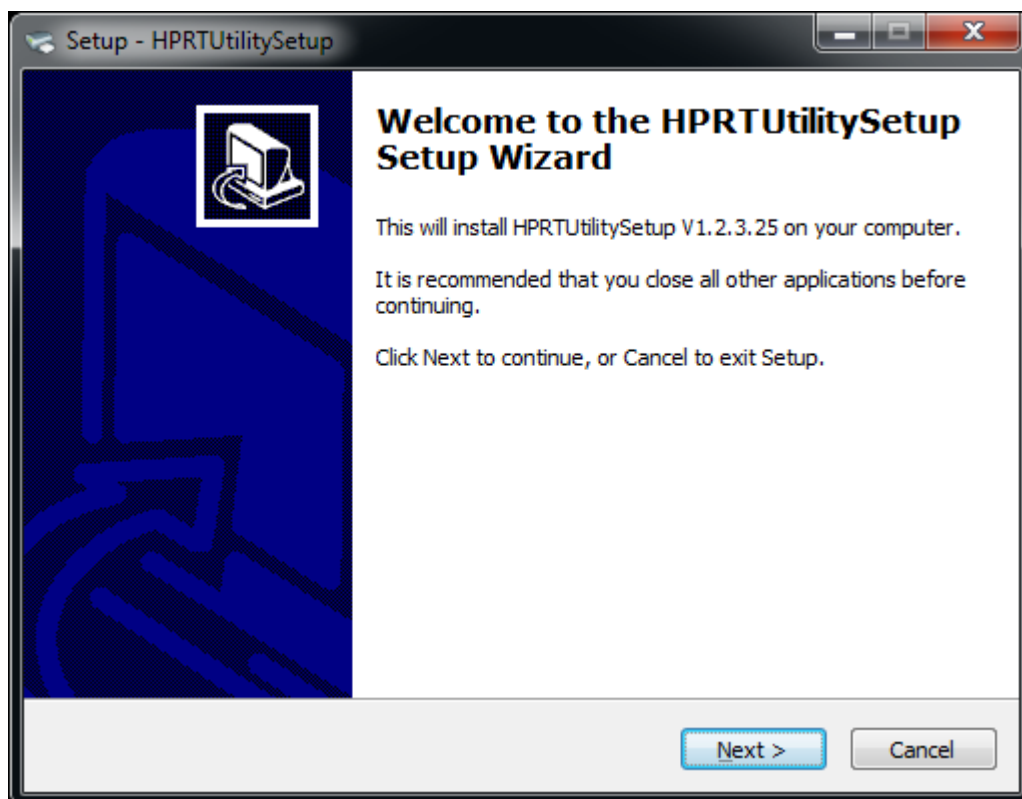
- Microsoft Windows 10 (32 bit/64 bit)
- Microsoft Windows 8 (32 bit/64 bit)
- Microsoft Windows SPI (32 bit/64 bit)
- Microsoft Windows XP Professional SP3 (32 bit)

1. Utility Tool Installation

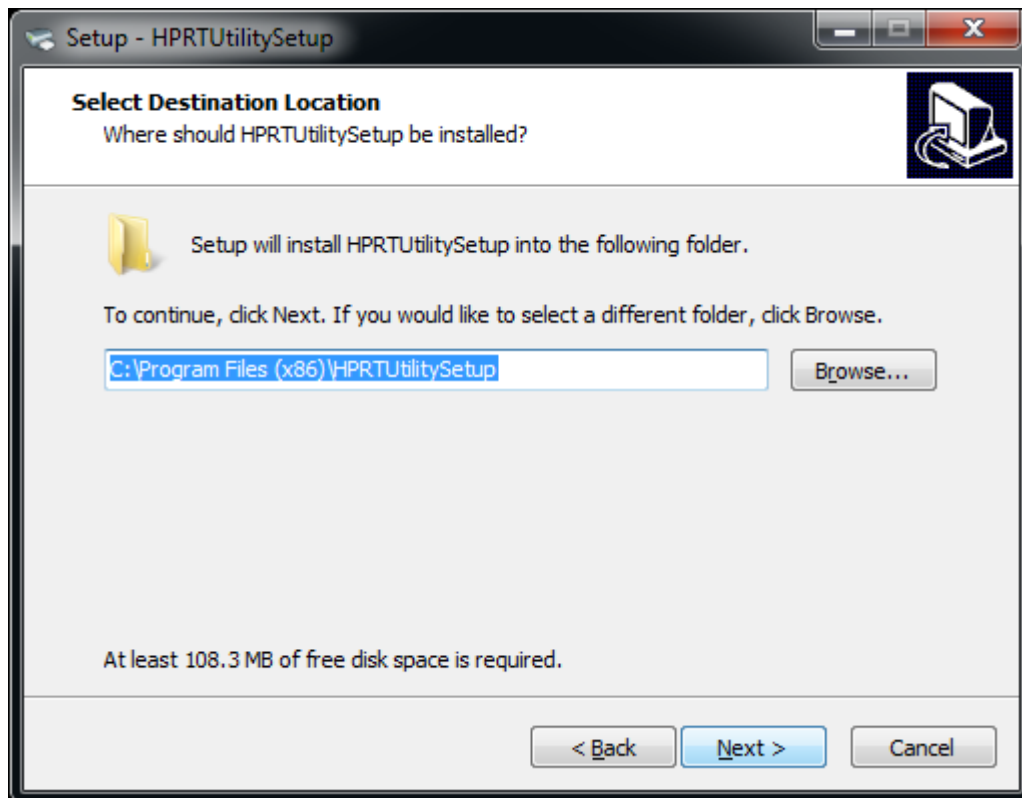
- 1) Open the installation package.
- 2) Choose "English" and click "OK".



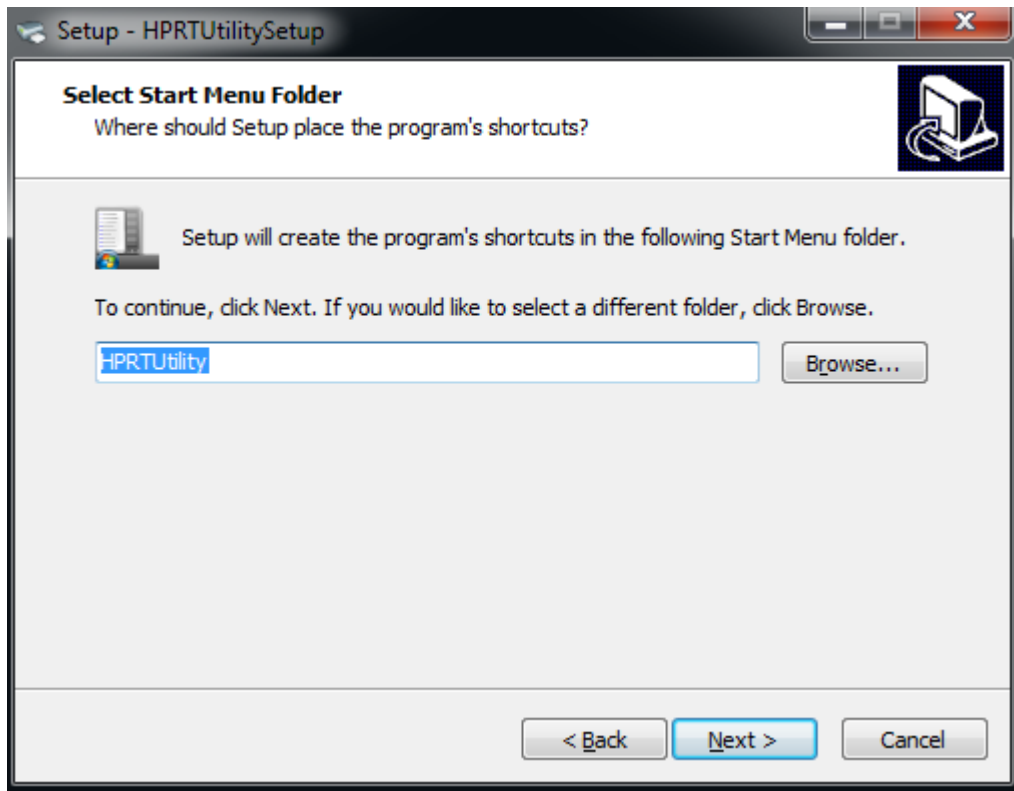
- 3) Click "Next".



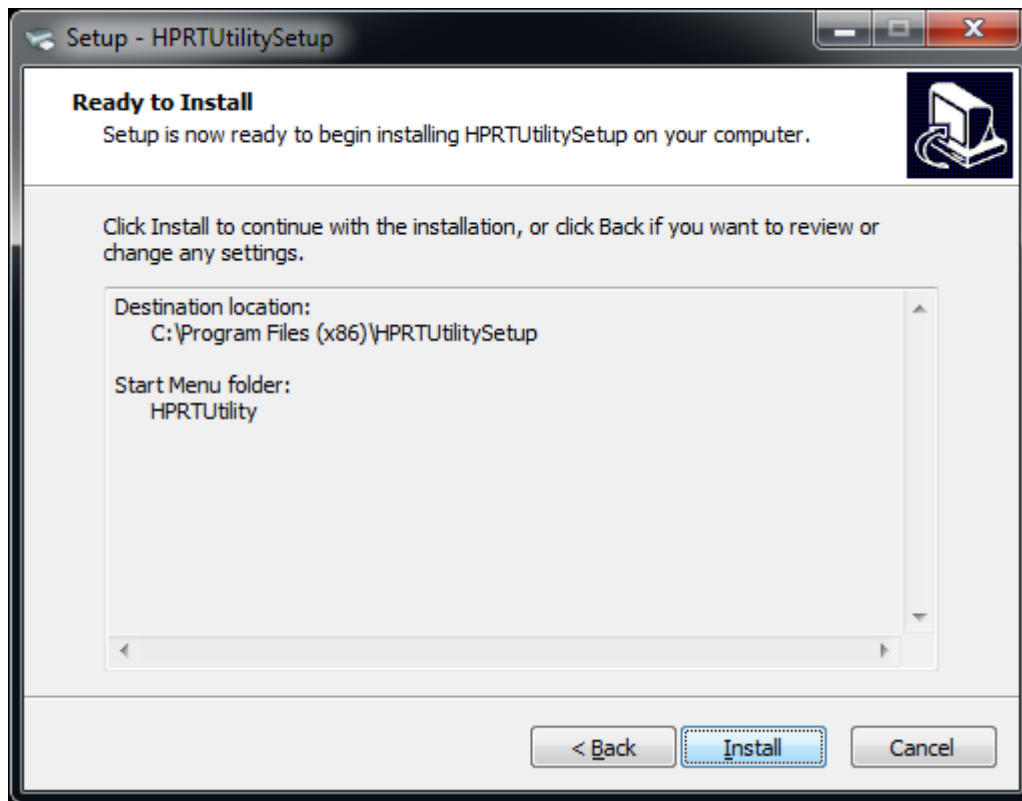
4) Select destination location to install the HPRT Utility Tool. Click “Next”.



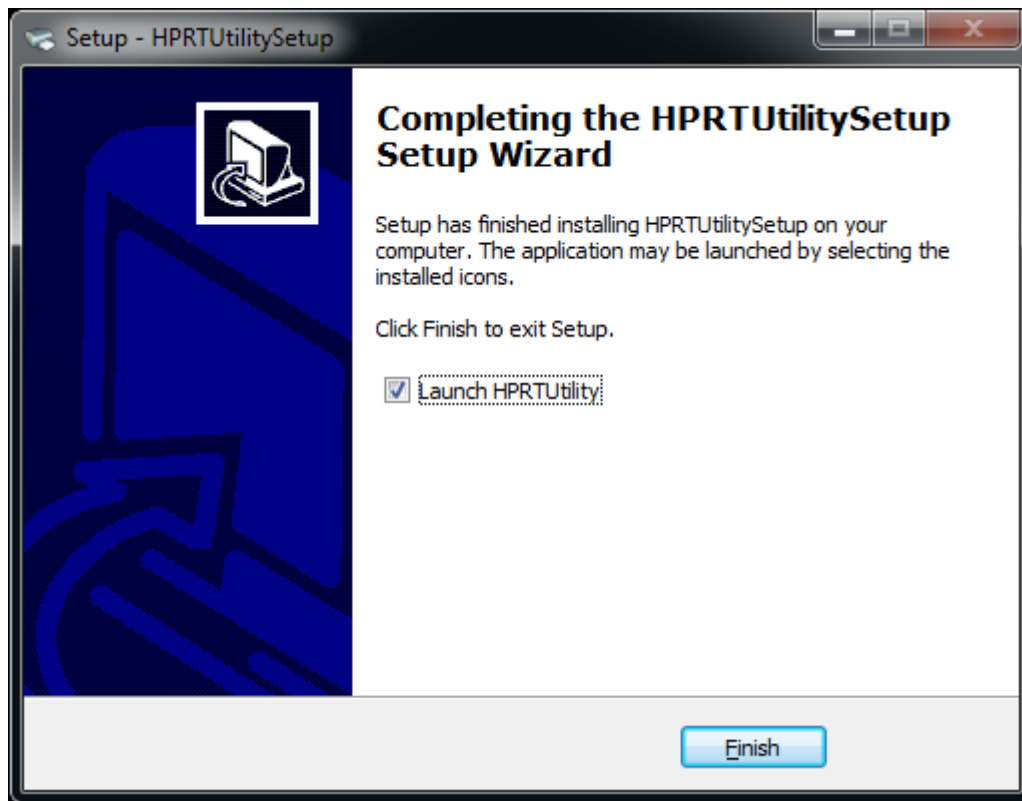
5) Select start menu folder. Click “Next”.



6) Click "Install".



7) Click "Finish". HPRT Utility Tool is installed successfully.



2. Utility Tool Using

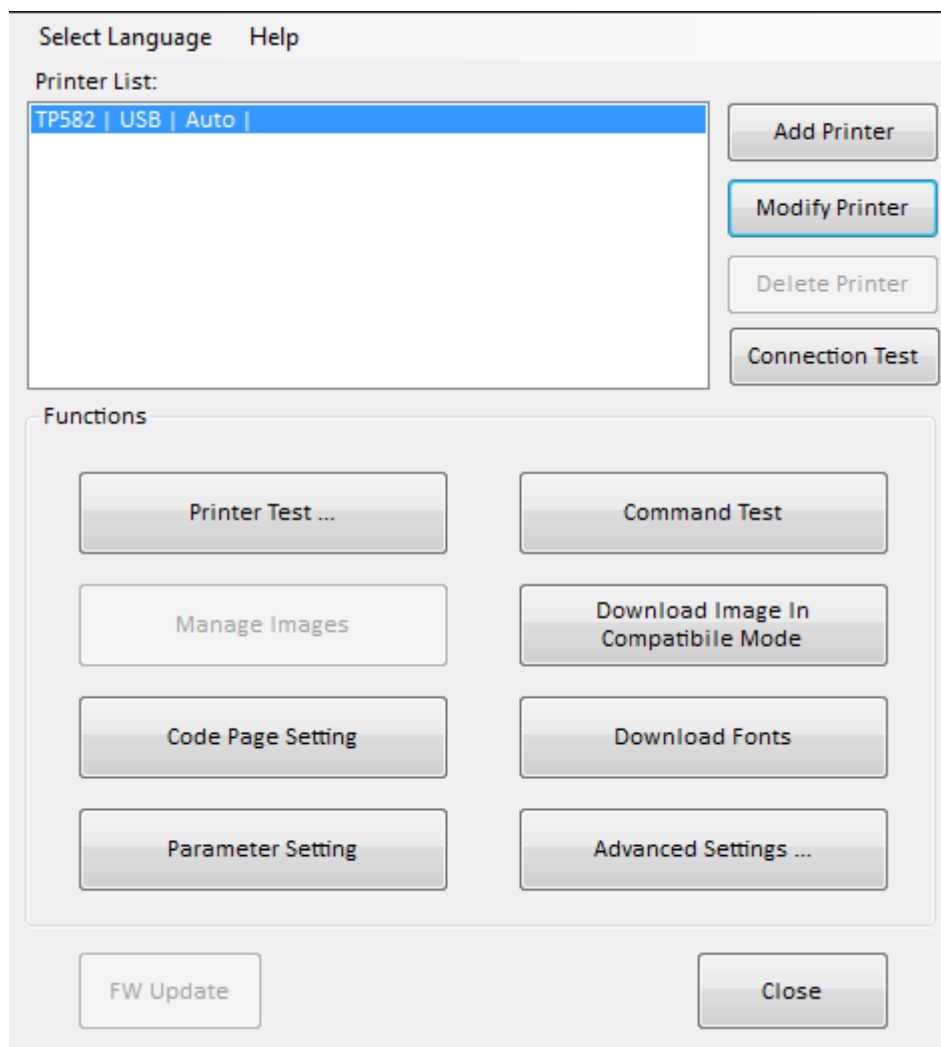
2.1 Add/Modify/Delete/Connection Printer



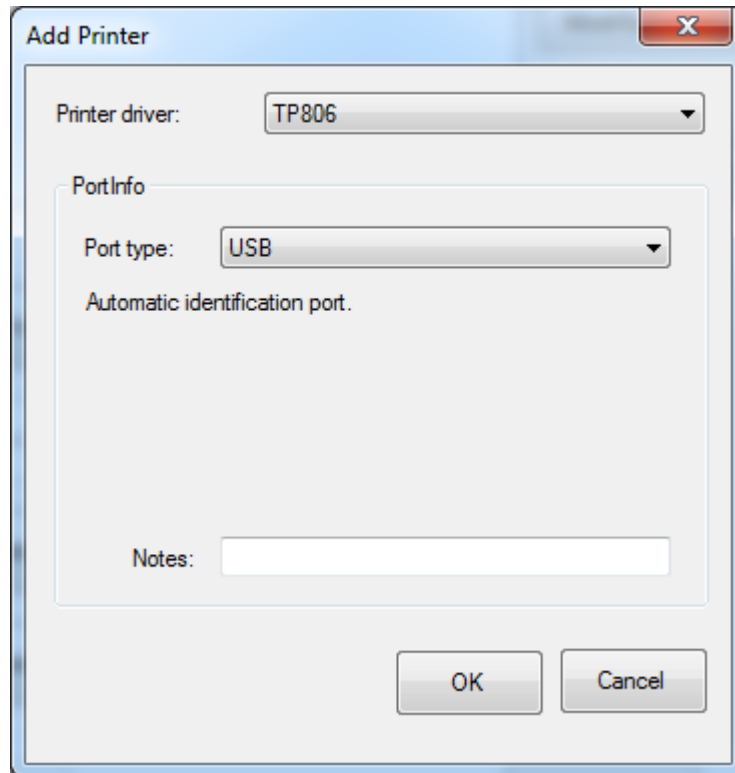
Warning: In different operating system, screen has a little difference. Please operate it according to the tips. Take TP806 (Windows 7) for example.

- **Add printer**

1) Click "Add Printer".

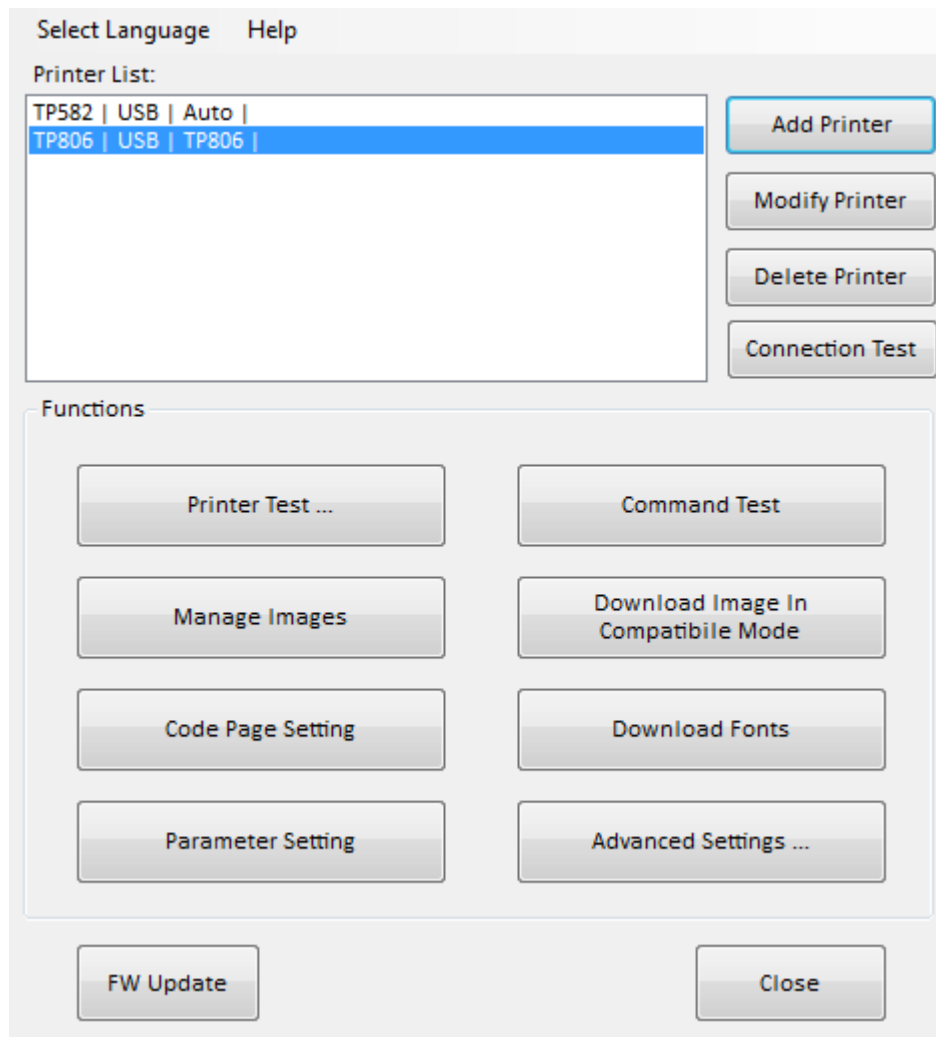


2) Choose the appropriate printer type and port. Then click “OK”. (Take TP806 for example)

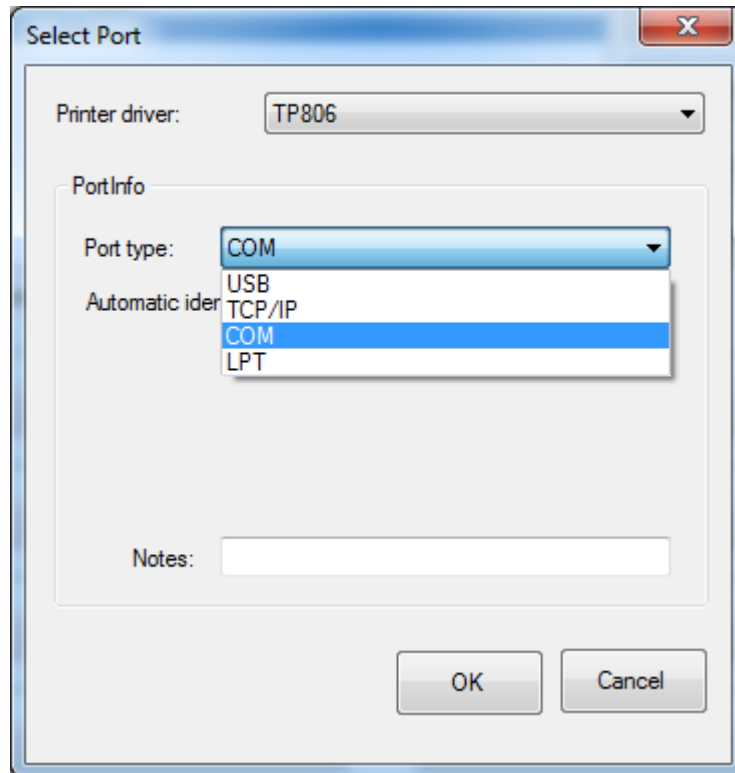


- **Modify printer**

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



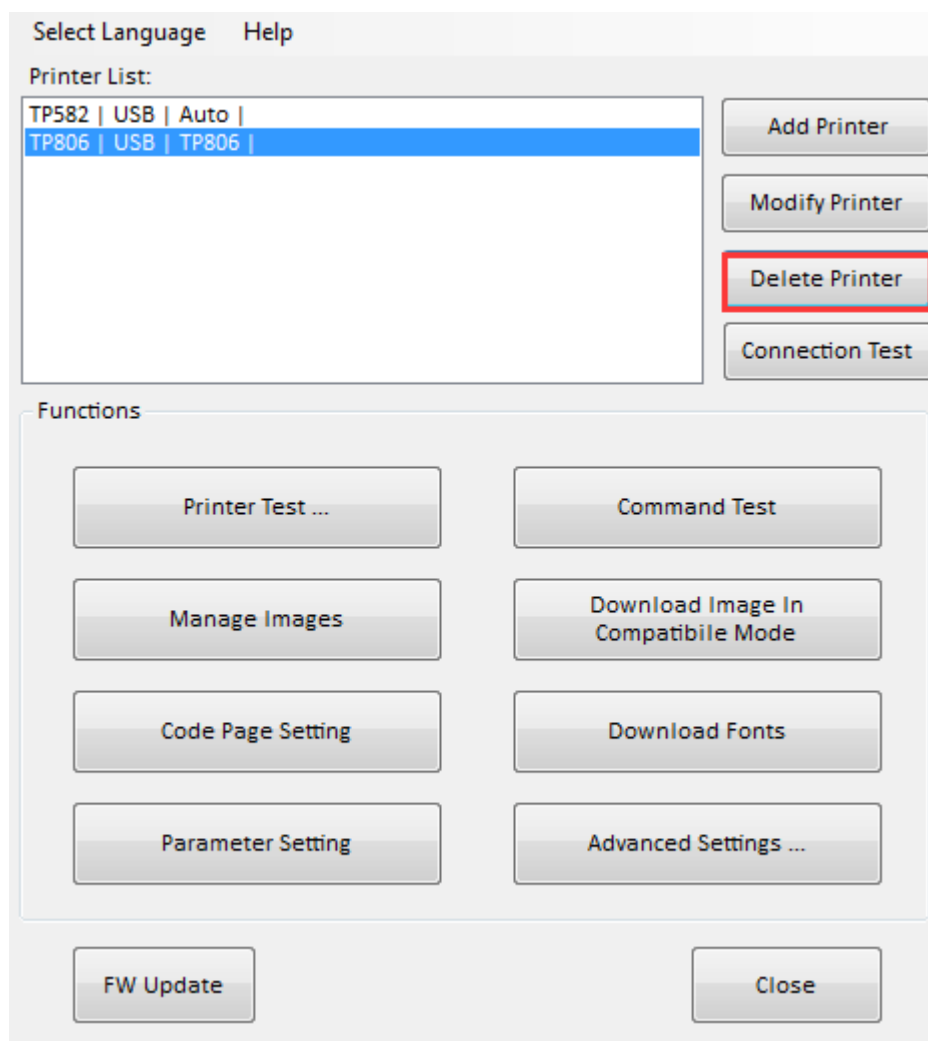
2) Choose the new printer and new port. Then click “OK”.



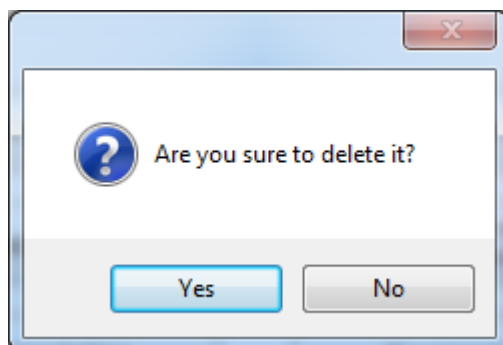
3) The new printer is added successfully.

- **Delete printer**

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



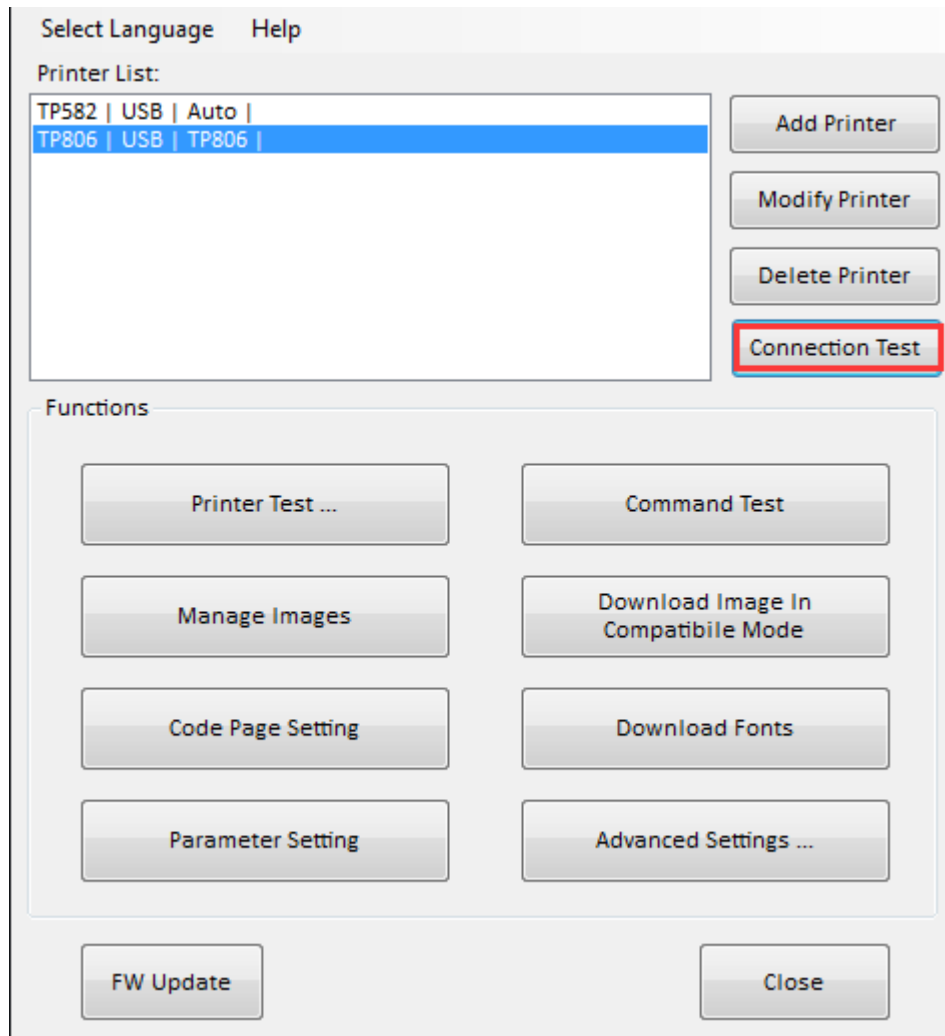
2) Click “Yes”, then the printer is deleted.



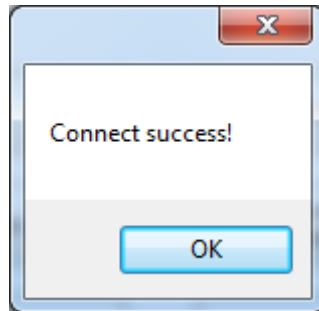
- **Connection Test**

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

2.2 Functions

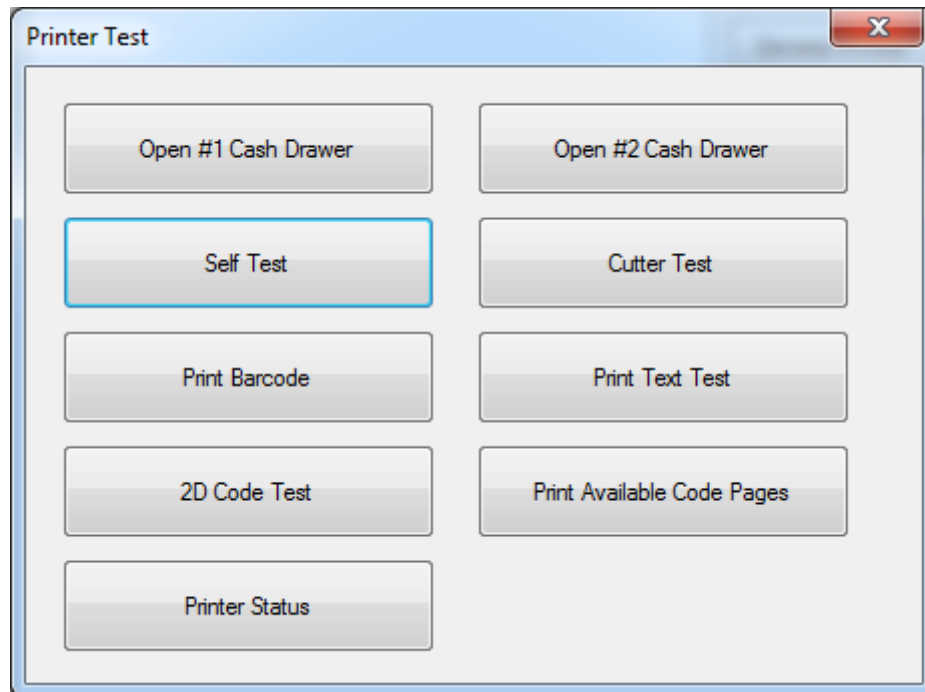
Printer Test contains the following items:

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

2.2.1 Printer Test

2.2.1.1 Self Test

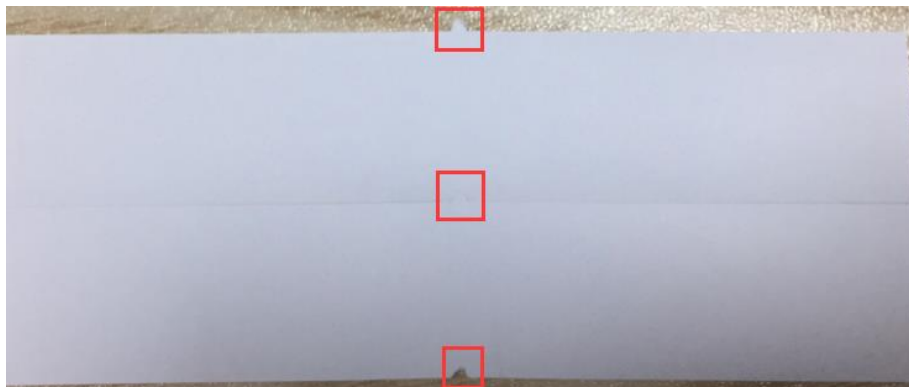
Click Configuration information to see if the printer will print properly.



2.2.1.2 Cutter Test

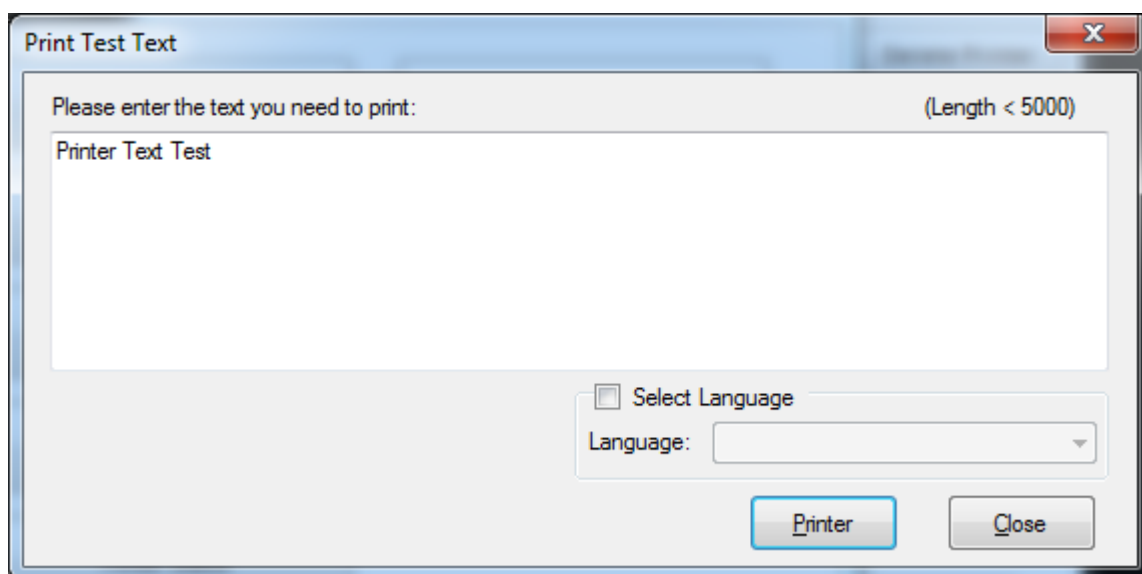
Click the cutter test and the paper will be cut automatically. Cutting method is half-cutting (half-cutting: Not all cut off, between the two sheets of paper to leave a connection point)

As shown in the figure:



2.2.1.3 Print Test Text

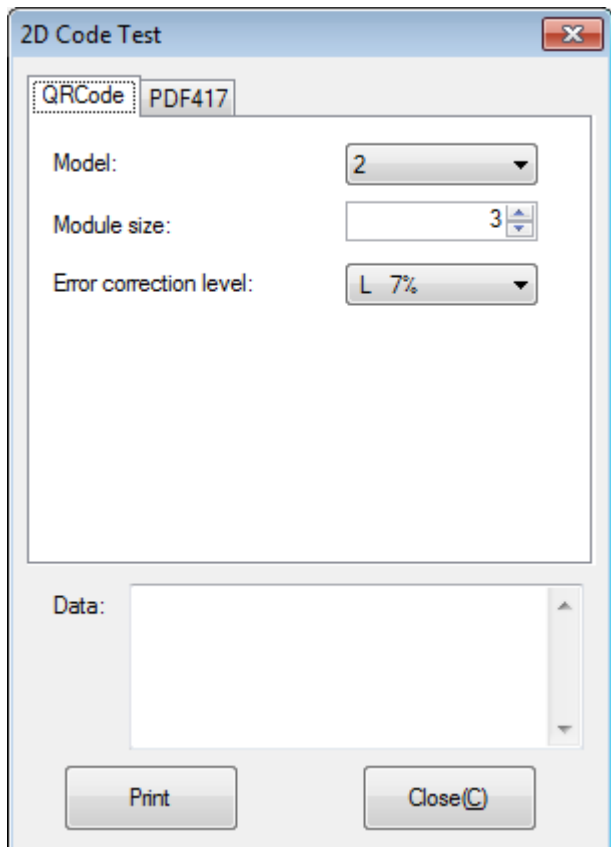
Click "Print Test Text", input the text you want to print. When you click "Print", the printer starts printing text content. Such as: Print Text Test.



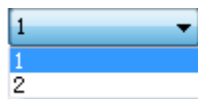
▲ **Note:** The language option in the lower right corner is checked according to the input text. (For example: The input is Simplified Chinese, the language is checked for Simplified Chinese, the printer prints the input text according to the setting options, and if you check other languages, the printer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

2.2.1.4 2D Code

Click the QRCode mode.



▲ Model: 1~2

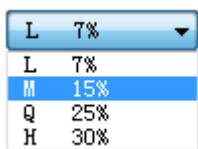


▲ Module size: 1~16

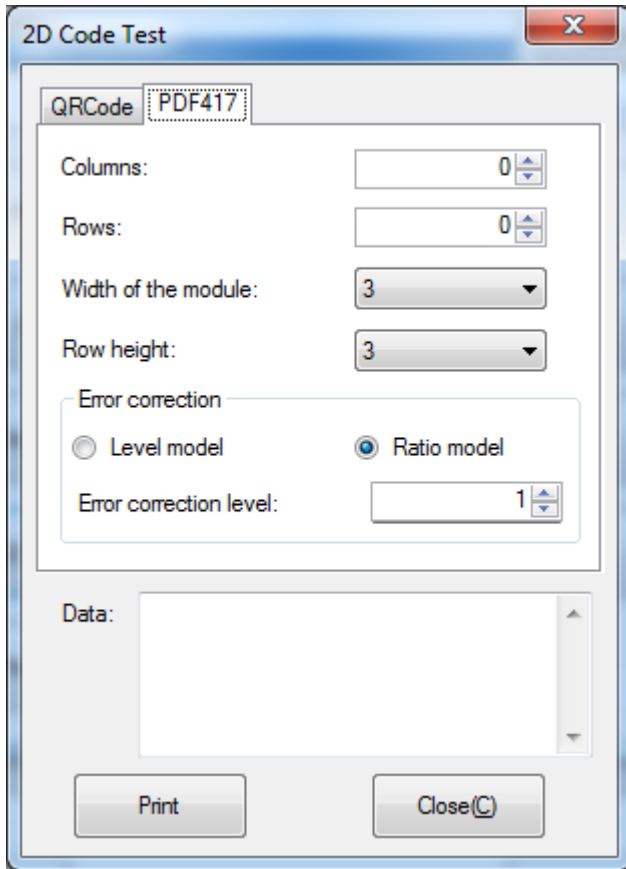
The larger the module value, the larger the printed QR code is, and the smaller the opposite.

▲ Error correction level: 7%~30%

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



Click the PDF417 mode.

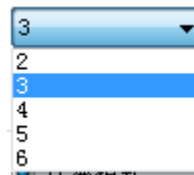


▲ Columns: 0~30

▲ 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

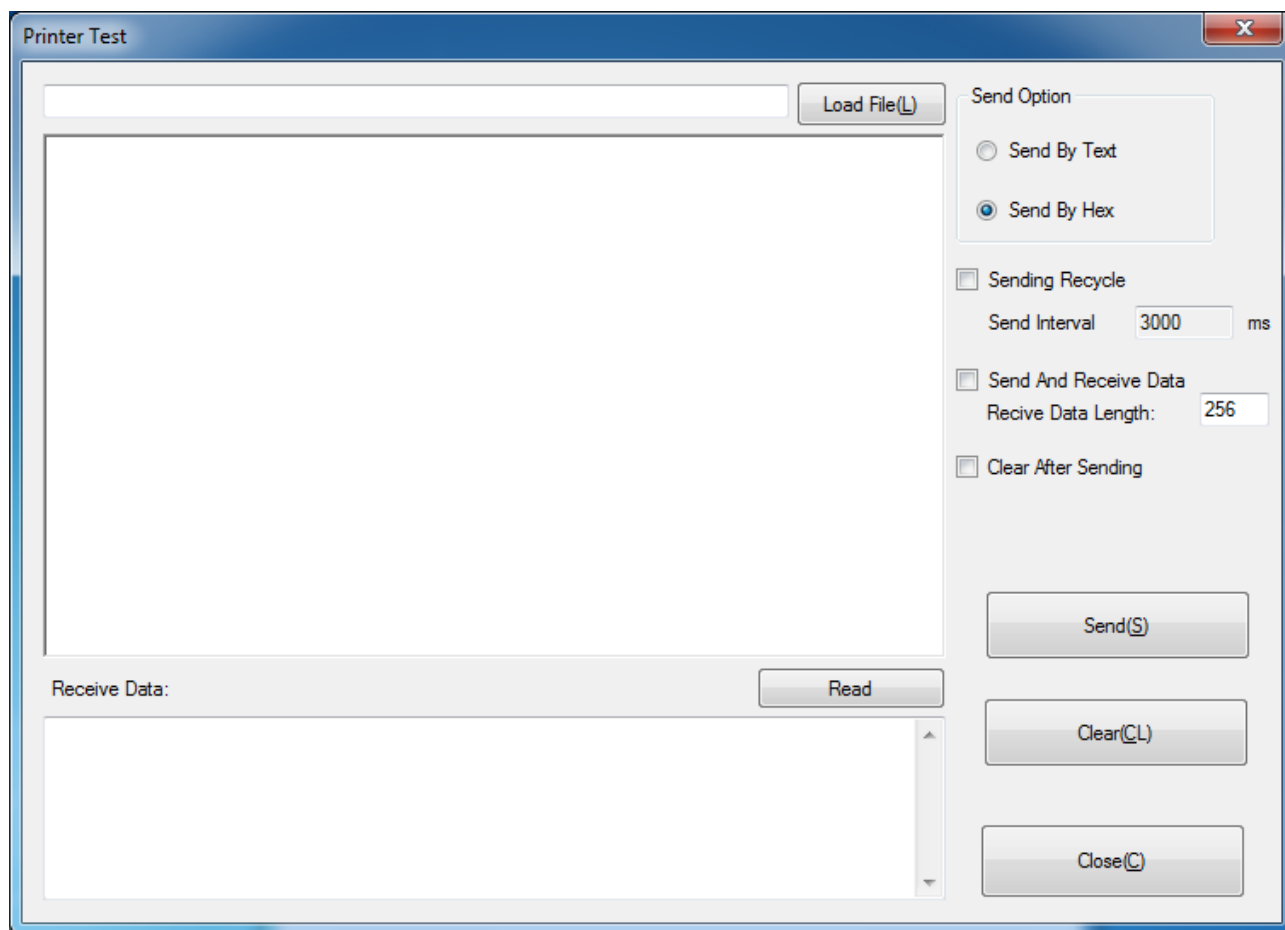
The larger the module value, the longer the printed PDF417 barcode, and the smaller the opposite.

▲ Error connection level

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) 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 ms

☐ Send And Receive Data

 Recive Data Length:

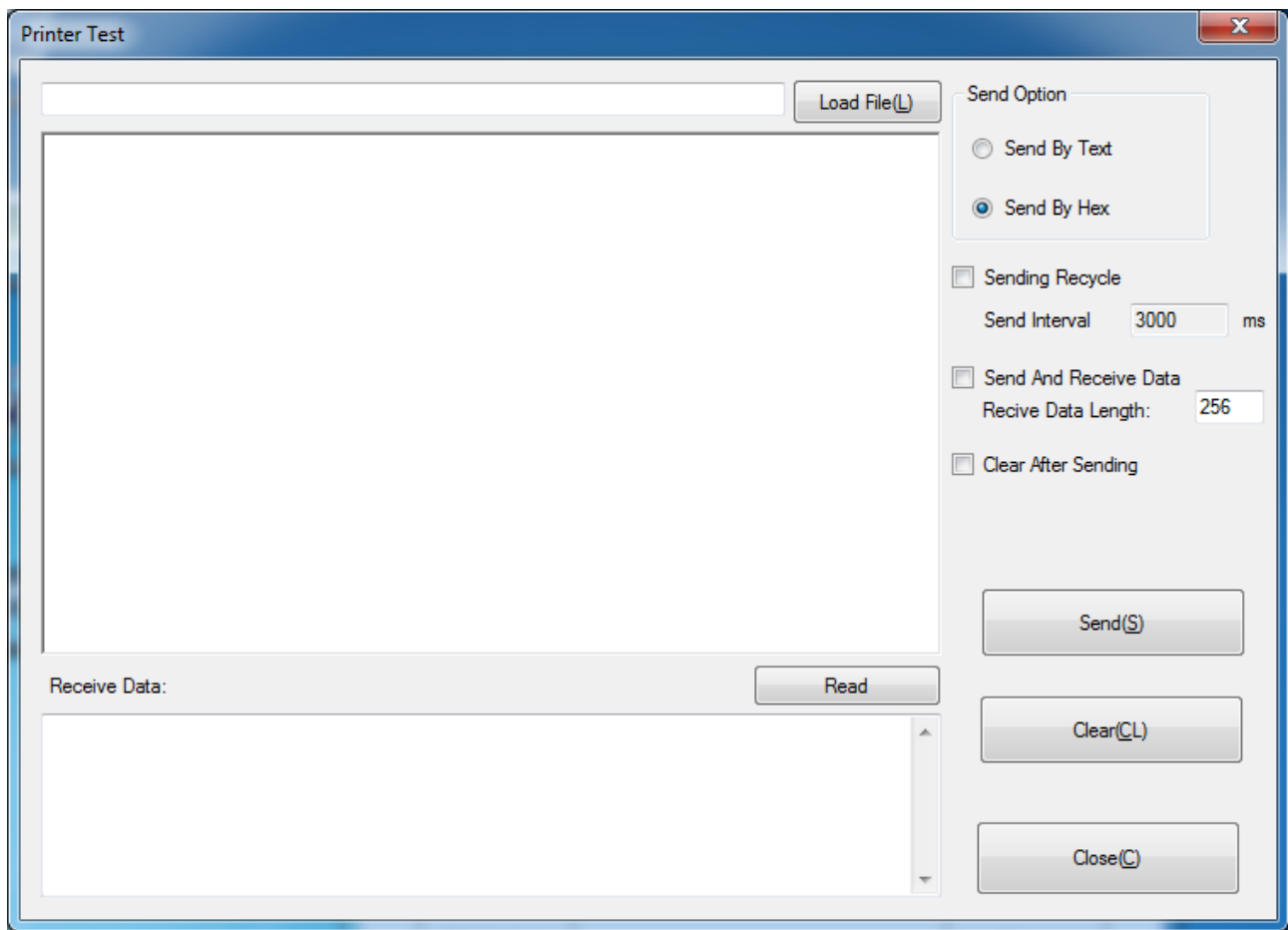
☐ Clear After Sending

Send(S)

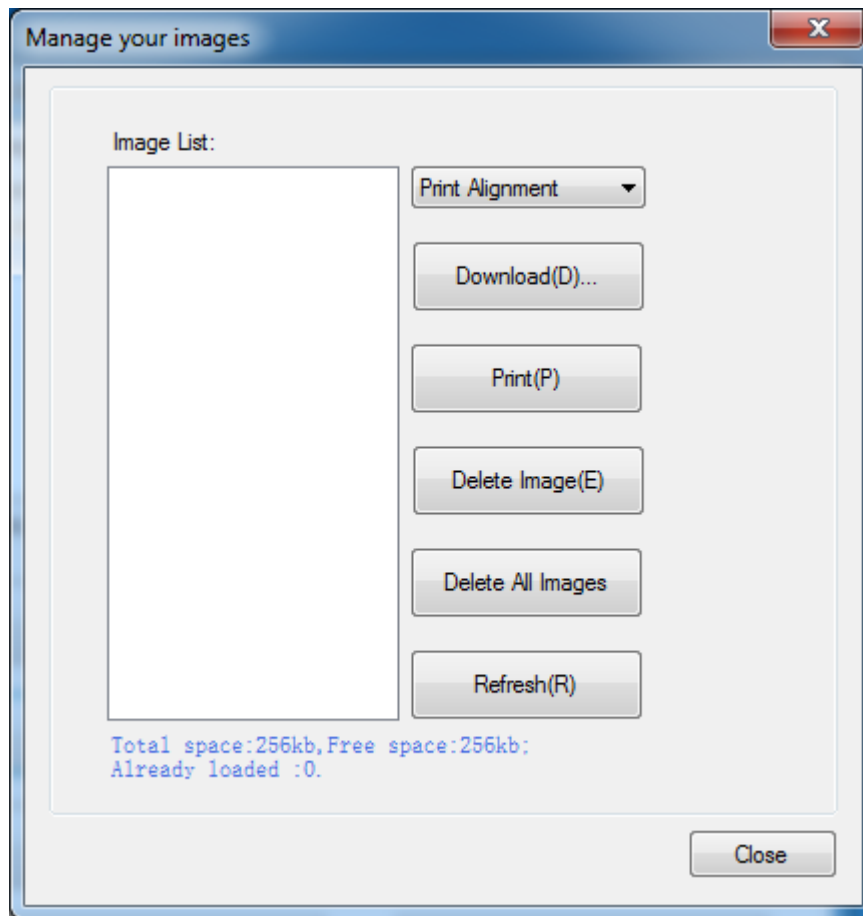
Clear(CL)

Close(C)

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

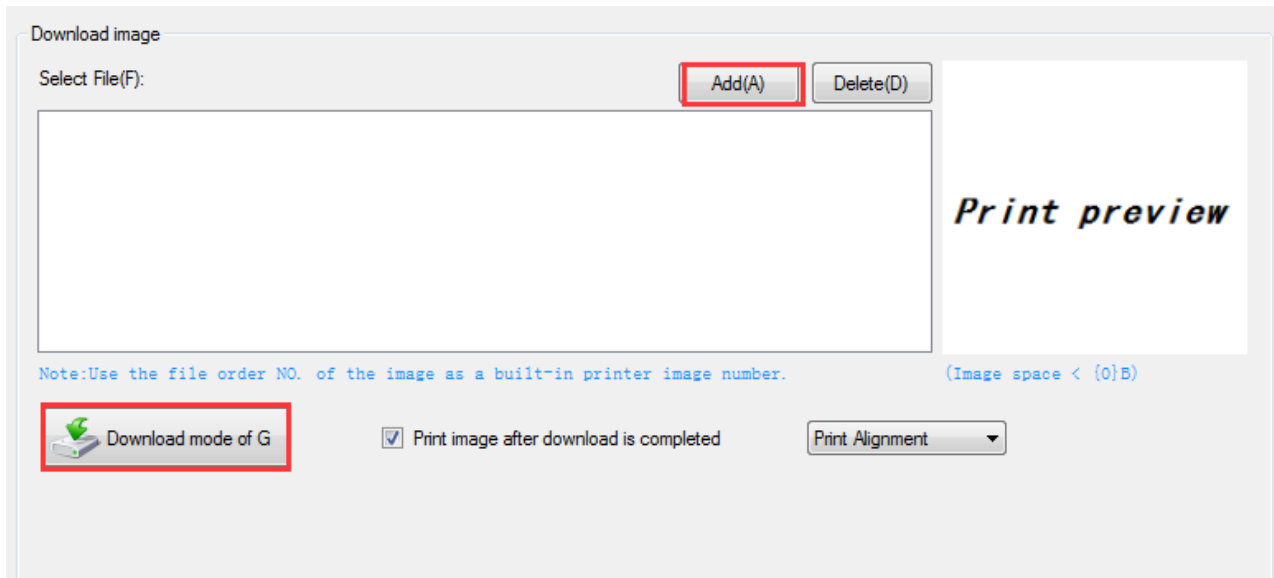


2.2.3 Manage Images

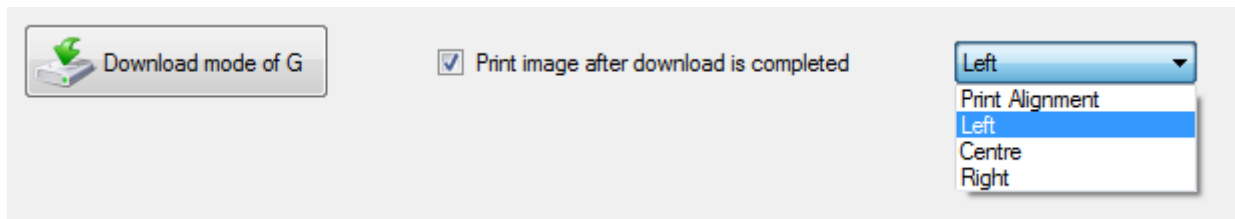


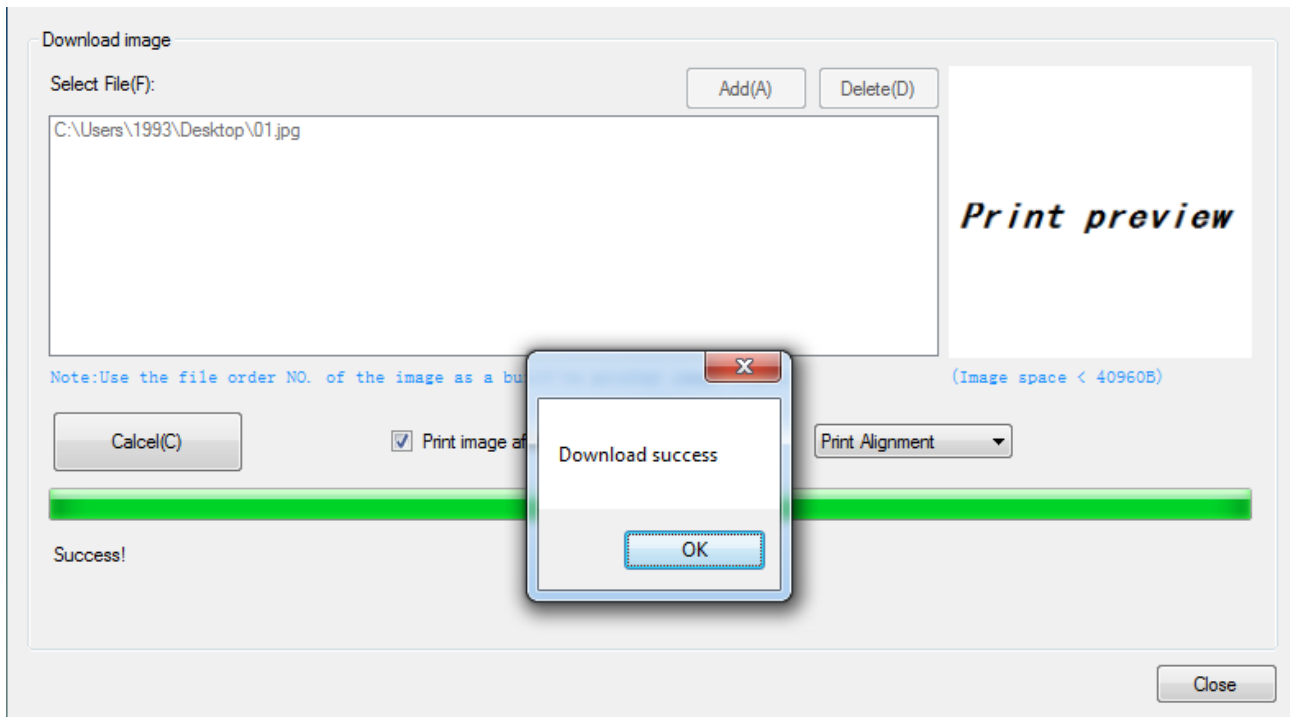
- Download image

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).

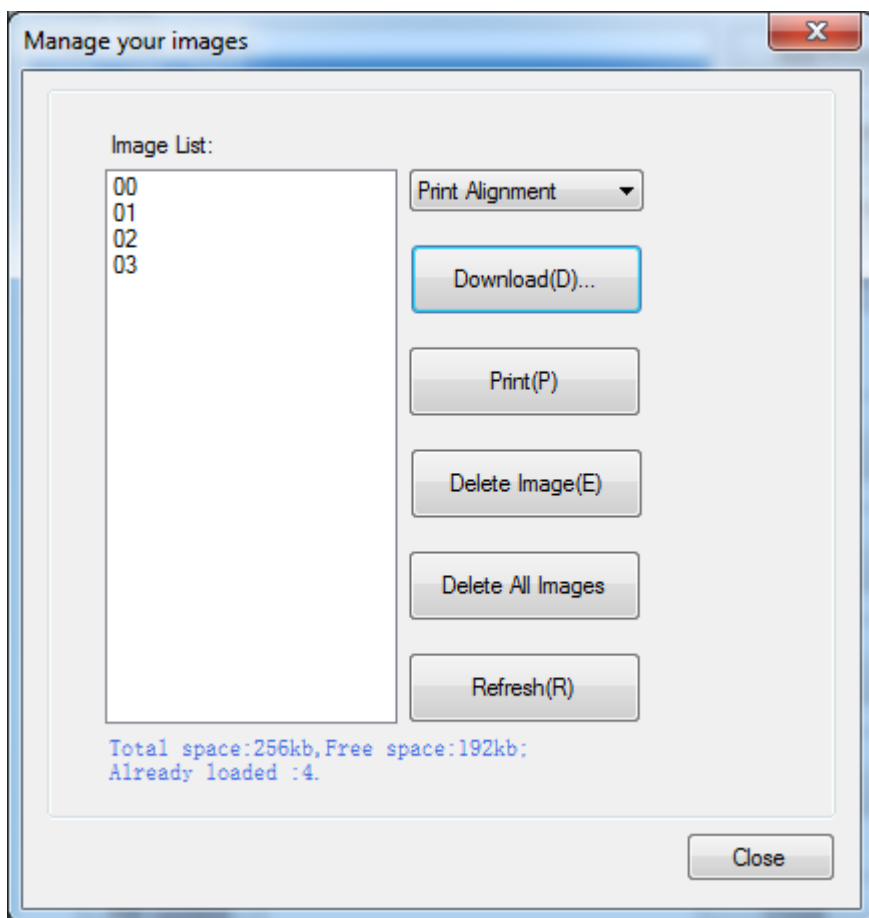




Note: Total memory 256K, each bitmap should be below 40K.

- Delete Image

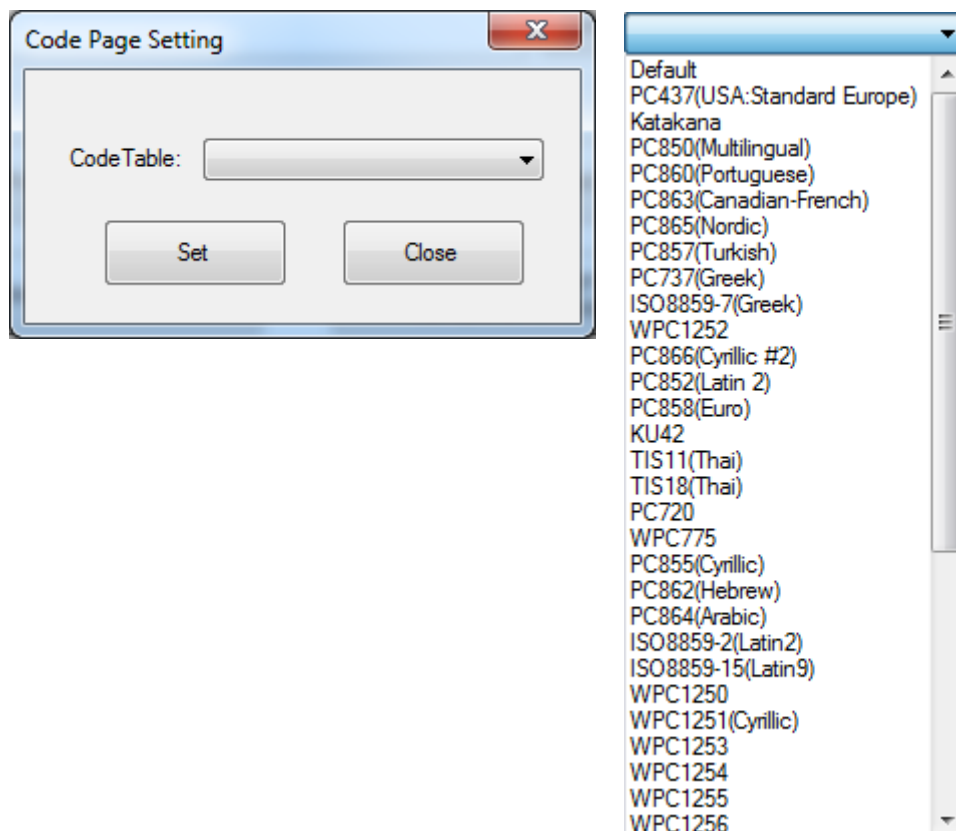
Note: each time click "Download mode of G", an image list number will be generated.



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.

2.2.4 Code Page Setting

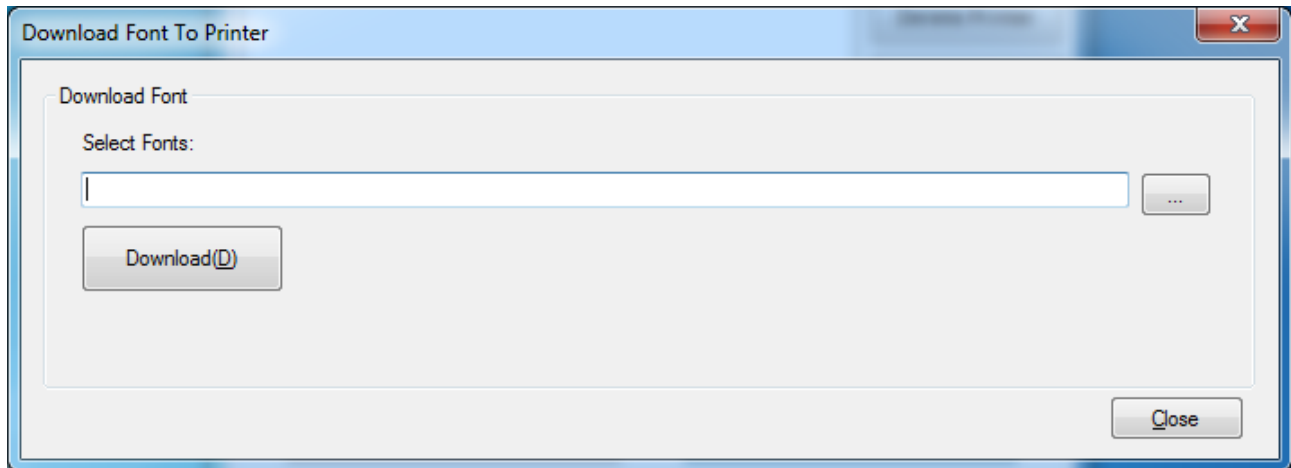
Select the code page from the list and click “Set”.



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

2.2.5 Download Font to Printer

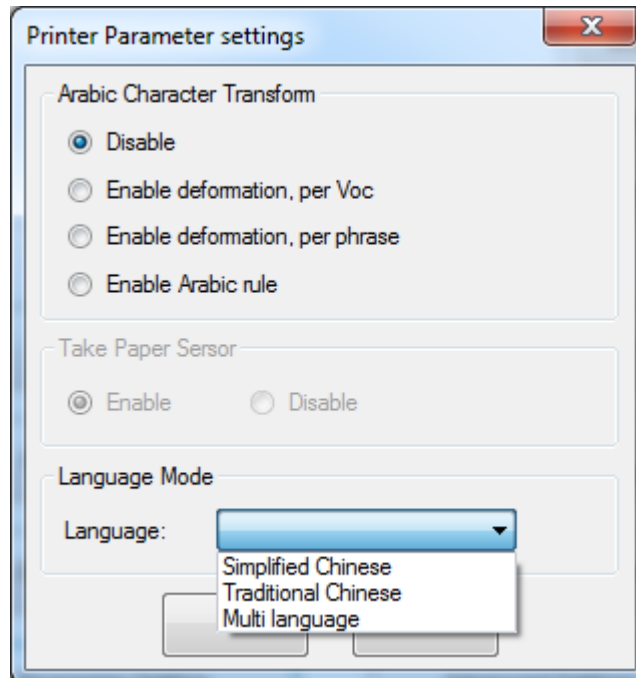
Select the font from the existing file and click "Download".



Note: After downloading the font successfully, you need to restart the printer before using it.

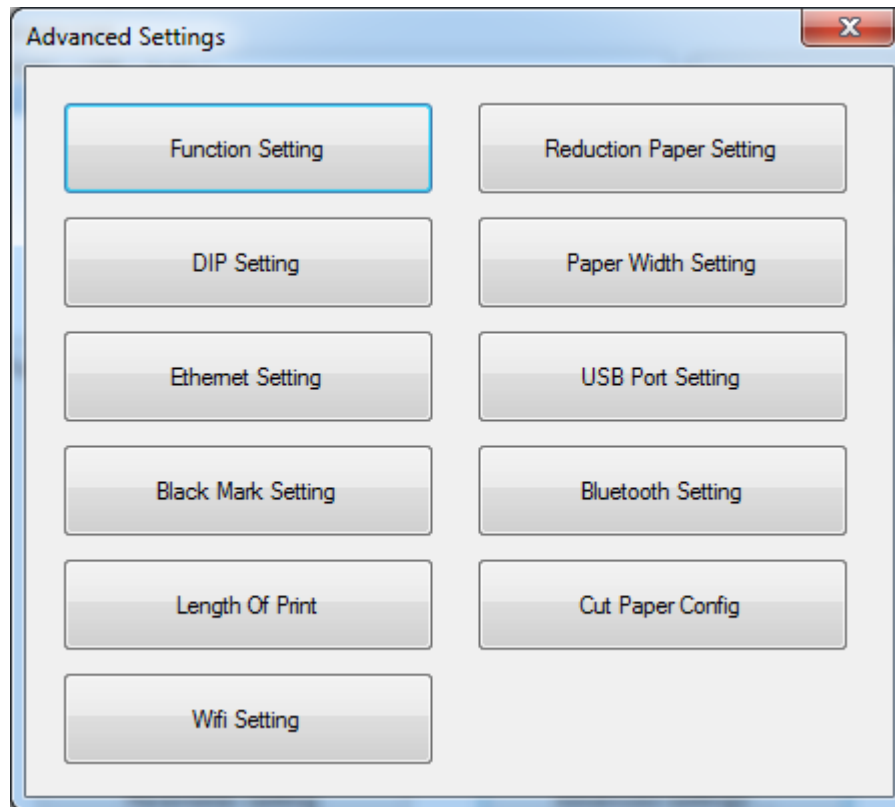
2.2.6 Parameter Setting

You can set Arabic Character Transform (for example: WPC1256).

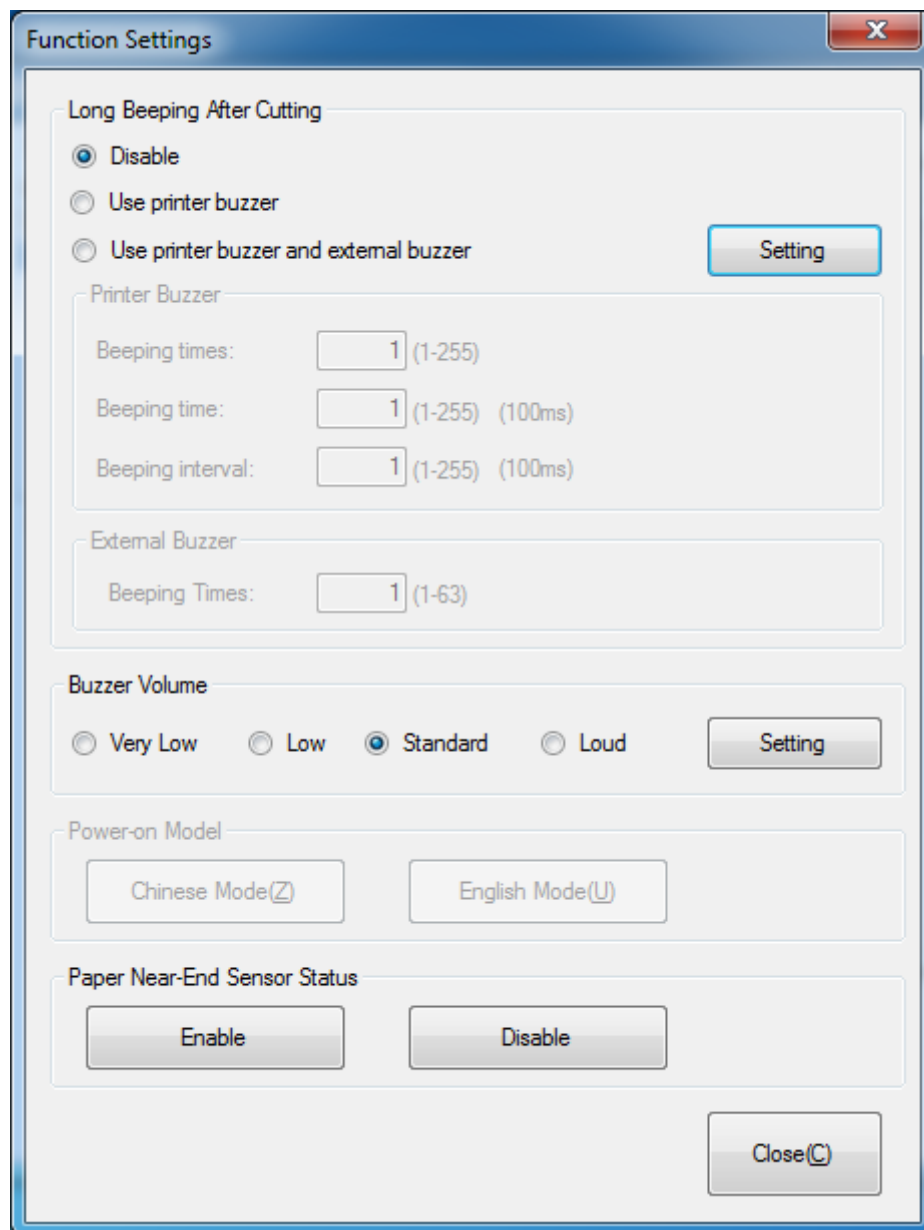


2.2.7 Advanced Setting

The advanced settings contain the following items.



2.2.7.1 Function Setting



The image shows a 'Function Settings' dialog box with a blue title bar and a close button (X) in the top right corner. The dialog is organized into several sections:

- Long Beeping After Cutting:** Contains three radio buttons: 'Disable' (selected), 'Use printer buzzer', and 'Use printer buzzer and external buzzer'. A 'Setting' button is located to the right of these options.
- Printer Buzzer:** A section containing three input fields, each with the value '1':
 - Beeping times: 1 (1-255)
 - Beeping time: 1 (1-255) (100ms)
 - Beeping interval: 1 (1-255) (100ms)
- External Buzzer:** A section containing one input field with the value '1':
 - Beeping Times: 1 (1-63)
- Buzzer Volume:** Contains four radio buttons: 'Very Low', 'Low', 'Standard' (selected), and 'Loud'. A 'Setting' button is located to the right.
- Power-on Model:** Contains two buttons: 'Chinese Mode(Z)' and 'English Mode(U)'.
- Paper Near-End Sensor Status:** Contains two buttons: 'Enable' and 'Disable'.

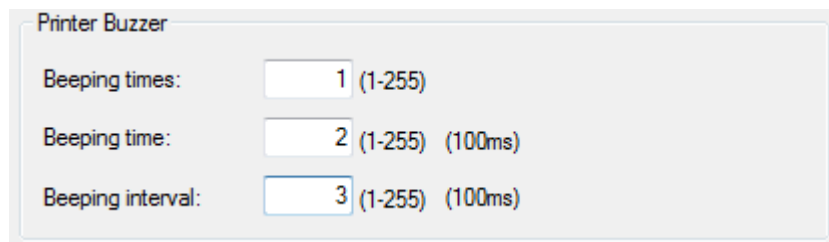
A 'Close(C)' button is located at the bottom right of the dialog.

● 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 2 milliseconds, 3 milliseconds or 4 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

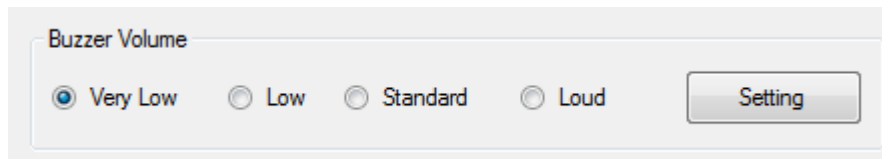
Beeping times: (1-255)

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

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

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

● Buzzer Volume:



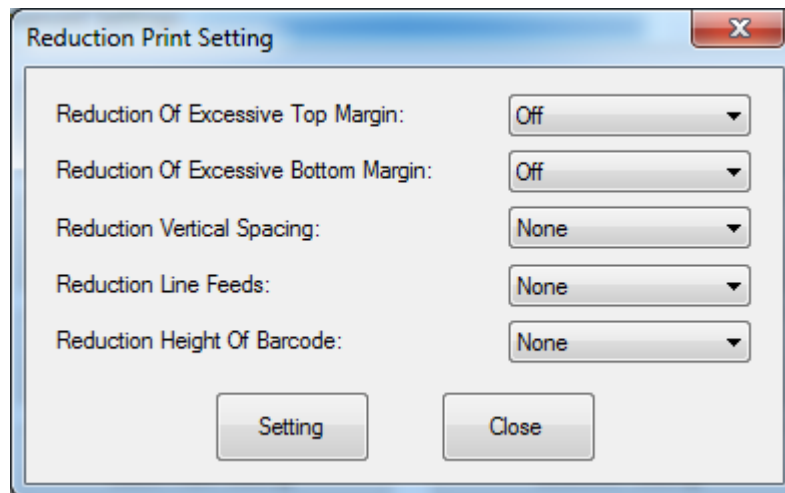
Buzzer Volume

☒ 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).

2.2.7.2 Reduction of Excessive Top Margin

Select the item and click "Settings".



2.2.7.3 DIP setting

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

Port and switch setting

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

Set

Printer hardware setting

Auto Line Feed

☒ Disable
☐ Enable

Internal Buzzer Control

☐ Disable
☒ Enable

Auto Cutter

☐ Disable
☒ Enable

BUSY Condition

☐ Receive Full Buffer
☒ Offline

Print Density

☐ Light
☐ Medium
☒ Standard
☐ Dark

DPI Mode

☐ 180 DPI
☒ 203 DPI

Language Mode

☐ Chinese,Japanese,Korean Mode
☒ Multi-language Mode

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

DIP Settings

Port and switch setting
 Port: **Ethernet And COM** ☒ Memory Switch Mode Set

Printer hardware setting

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

COM Settings

Baud Rate: 19200	Data Length: 8bits	Parity Check: No	Handshaking: DTR/DSR
---------------------	-----------------------	---------------------	-------------------------

Read Write Close

Note: 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

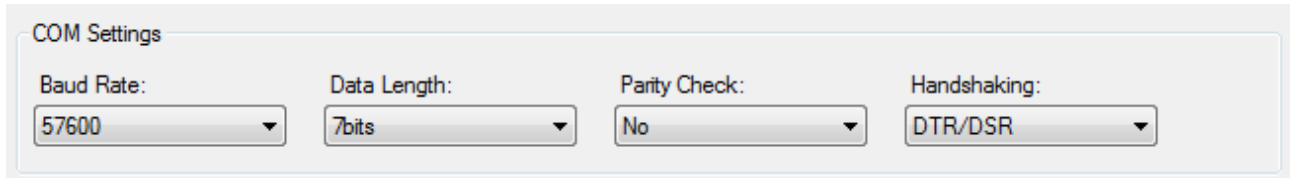
Parity Check: None

Data Length: 8bits

Stop Bits: 1

ADDC: DTR/DSR

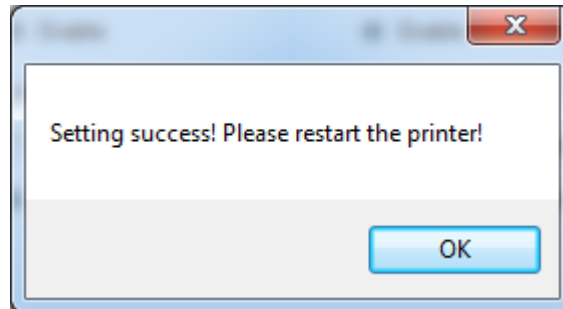
● Modify the COM setting



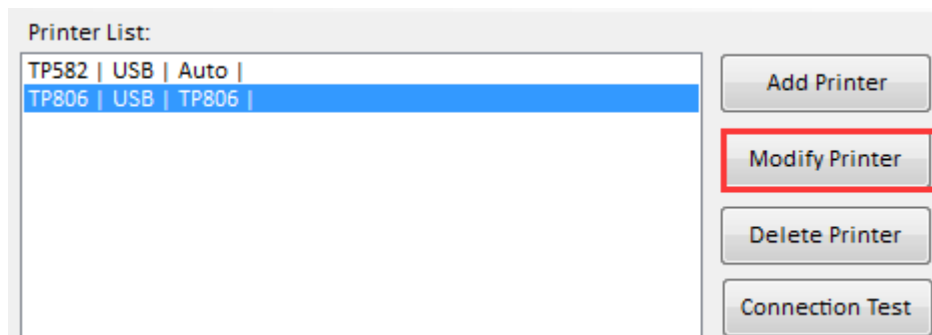
COM Settings

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:

TP582	USB	Auto
TP806	USB	TP806

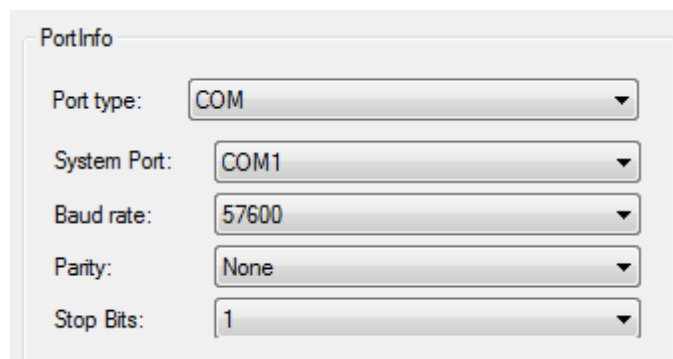
Add Printer

Modify Printer

Delete Printer

Connection Test

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

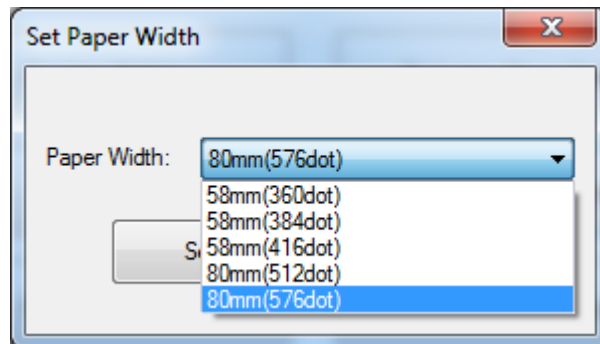
Baud rate: 57600

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.

2.2.7.4 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.

2.2.7.5 Ethernet Setting

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.

The screenshot shows the 'Ethernet Setting' window. At the top, there's a title bar with 'Ethernet Setting' and a close button. Below the title bar, there are two text boxes: 'Board Type:' with the value 'Ethernet And COM' and 'Board Soft Version:' with the value 'V2.00.05'. To the right of these is a 'Close' button. Below these fields is a section titled 'Ethernet Setting'. Inside this section, there's a 'DHCP:' label followed by a dropdown menu currently showing 'Auto Assignment IP'. Below that is an 'IP address:' label followed by a text box also showing 'Auto Assignment IP'. Further down are 'Subnet mask:' (255 . 255 . 255 . 0) and 'Default gateway:' (10 . 0 . 21 . 1). At the bottom is 'MAC:' (D8 : 80 : 39 : 78 : 5F : AA). To the right of the IP address field is a 'Set' button.

● 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:

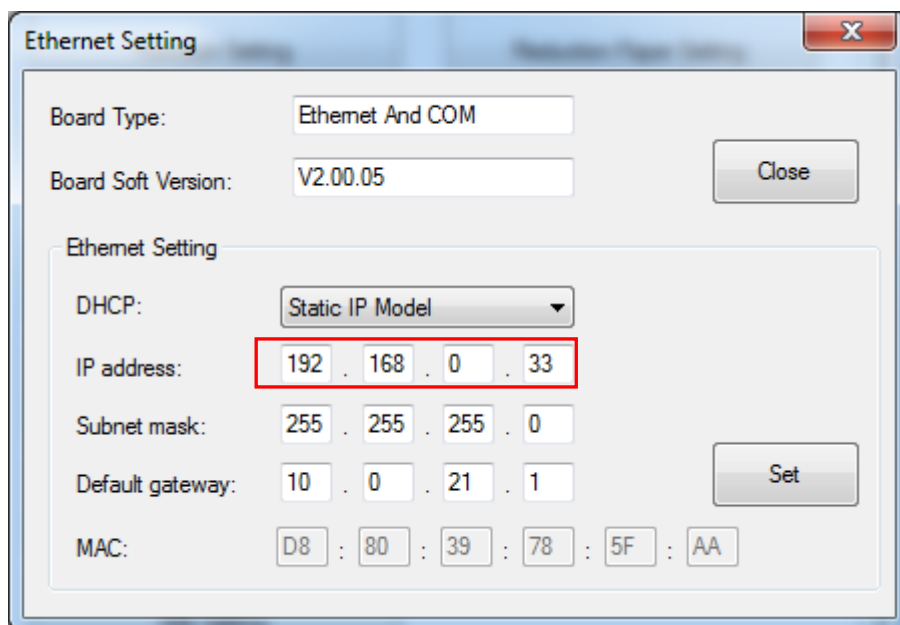


Figure ■ Printer IP Address

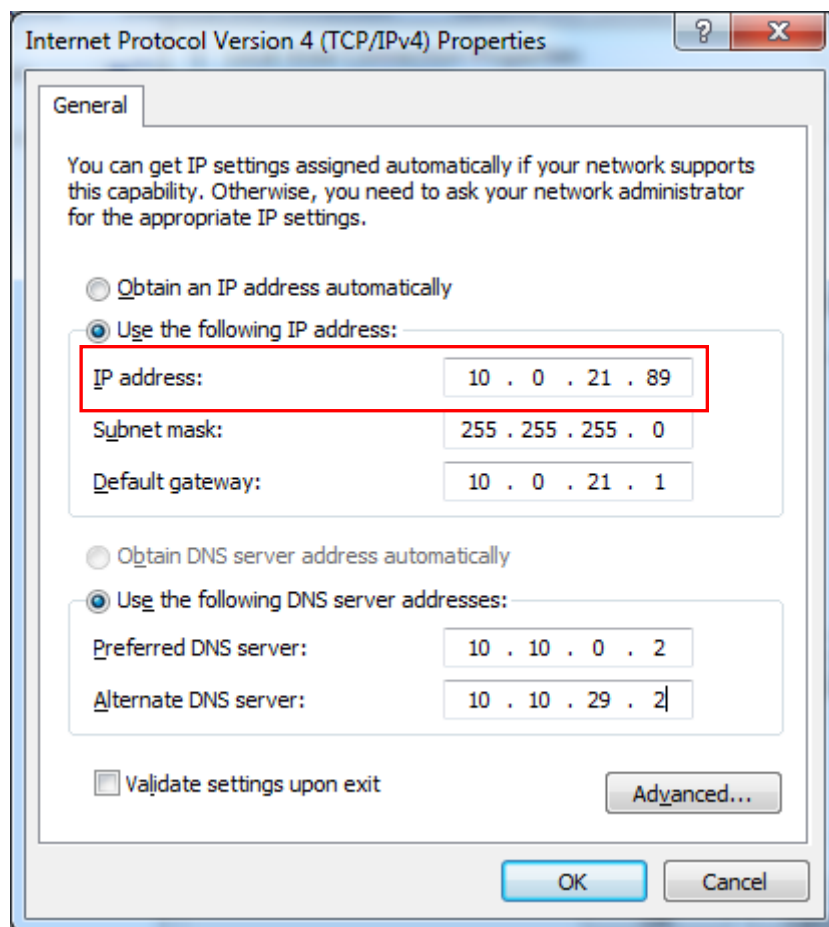


Figure ■ Host IP Address

2) Set the same network segment.

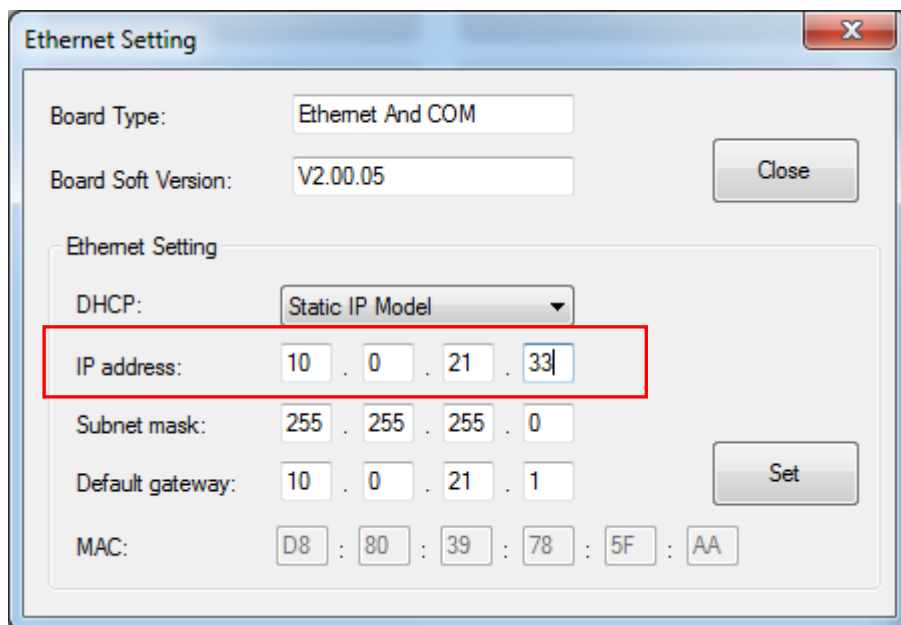


Figure ■ Printer IP Address

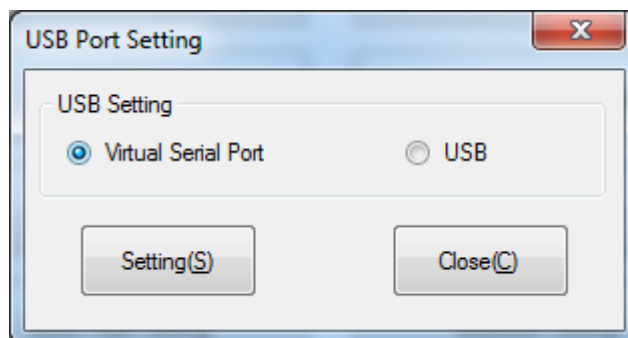
● Auto Assignment IP

This mode automatically assigns the IP address to the printer.

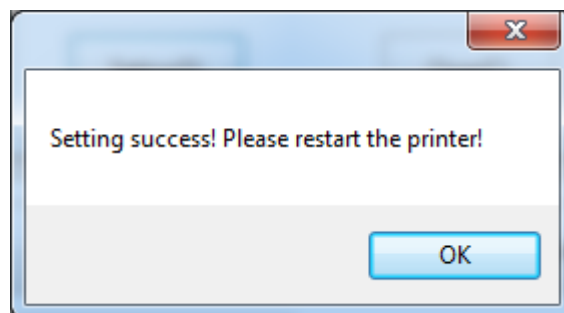
The screenshot shows the 'Ethernet Setting' window. At the top, 'Board Type' is set to 'Ethernet And COM' and 'Board Soft Version' is 'V2.00.05'. A 'Close' button is on the right. The main section, titled 'Ethernet Setting', contains a 'DHCP' dropdown menu currently set to 'Auto Assignment IP'. Below this are four rows of input fields: 'IP address' (10, 0, 21, 33), 'Subnet mask' (255, 255, 255, 0), 'Default gateway' (10, 0, 21, 1), and 'MAC' (D8, 80, 39, 78, 5F, AA). A 'Set' button is positioned to the right of the MAC field.

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

2.2.7.6 USB Port Setting

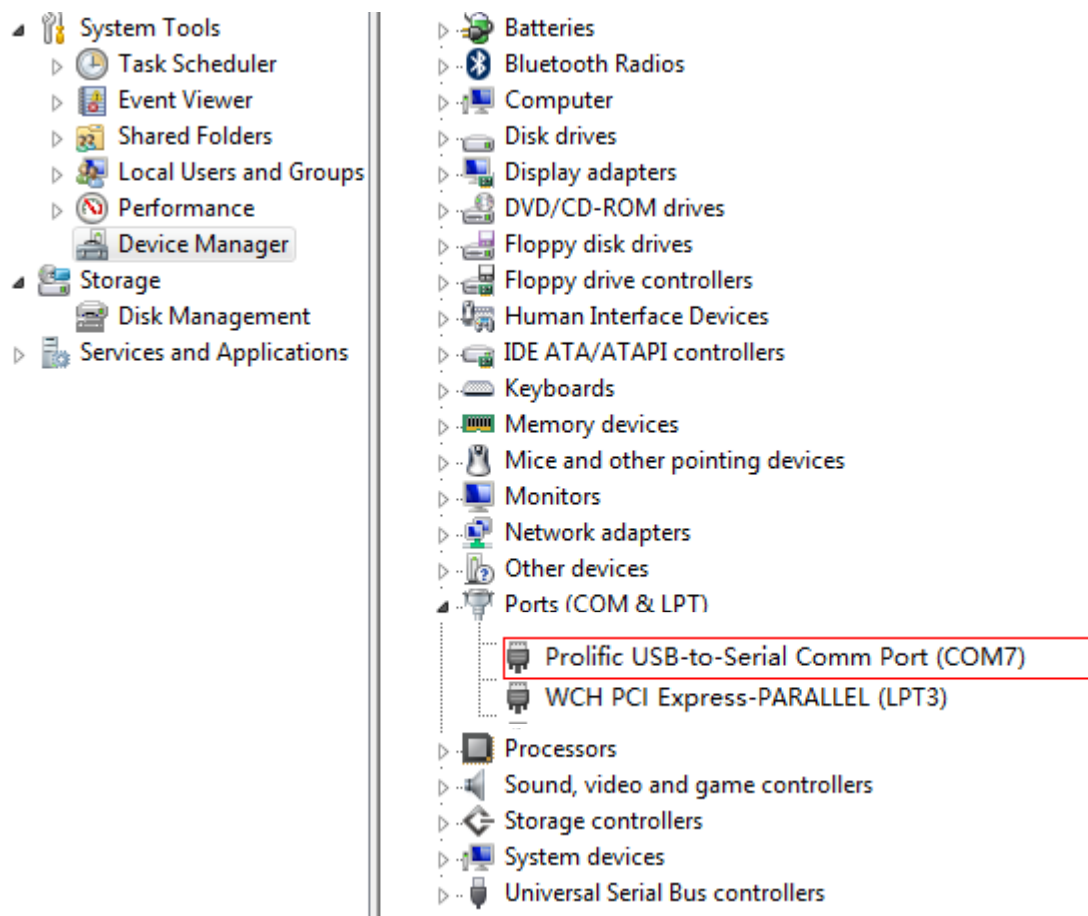
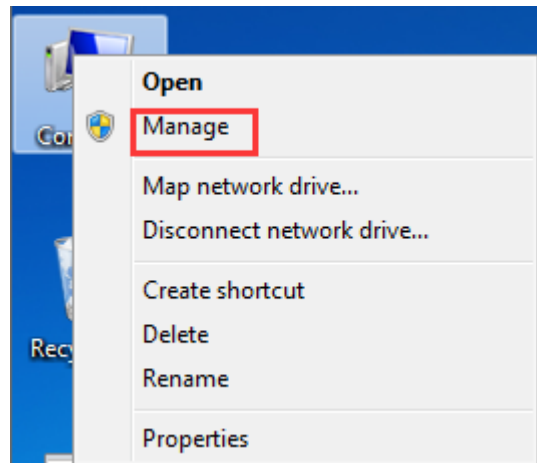


Click "Virtual serial port" setting and restart the printer.

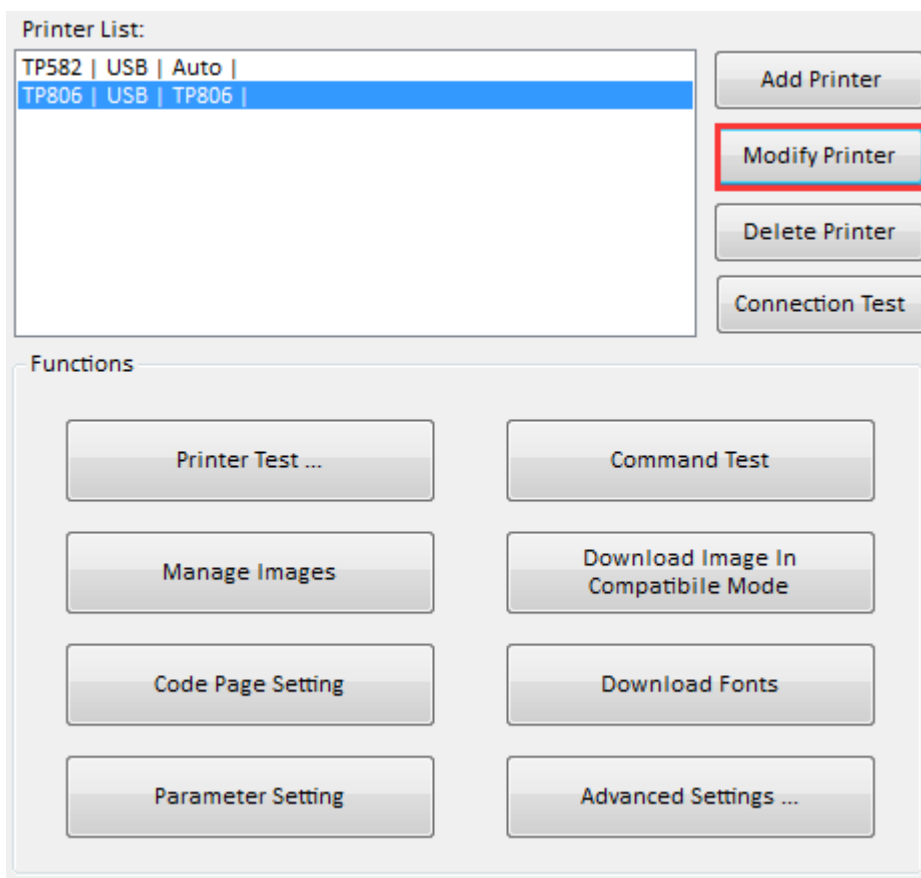


● Check the Virtual Serial Port

- 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
COM2

Parity: None

Stop Bits: 1

Notes:

PortInfo

Port type: COM

System Port: COM7

Baud rate: 19200

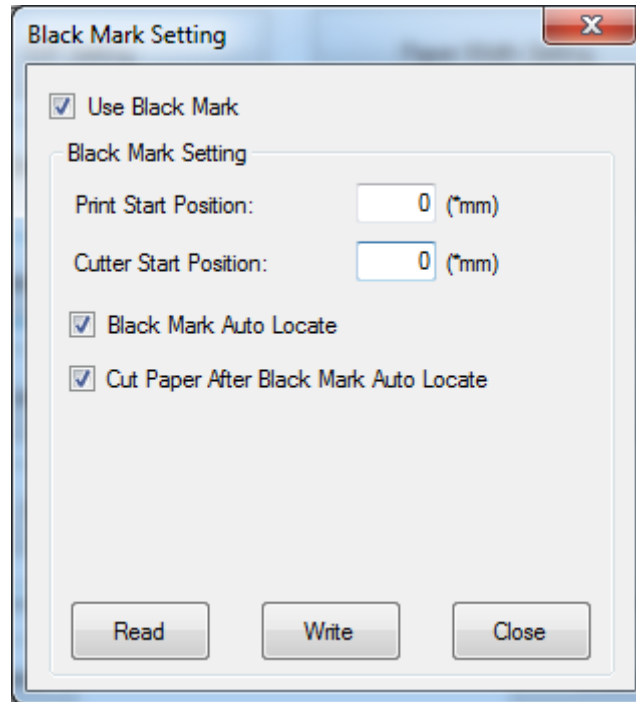
Parity: None

Stop Bits: 1

Notes:

2.2.7.7 Black Mark Setting

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



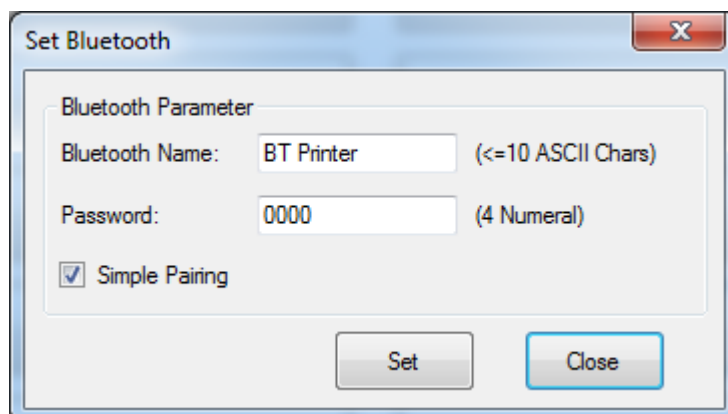
1) Print start position ($\geq -14\text{mm}$)

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

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

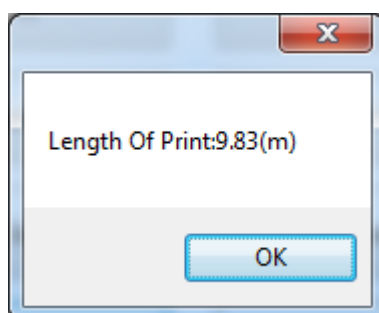
$\geq -25\text{mm}$: the position of cutter is at least 25mm from the bottom edge of the black mark paper.

2.2.7.8 Bluetooth Setting

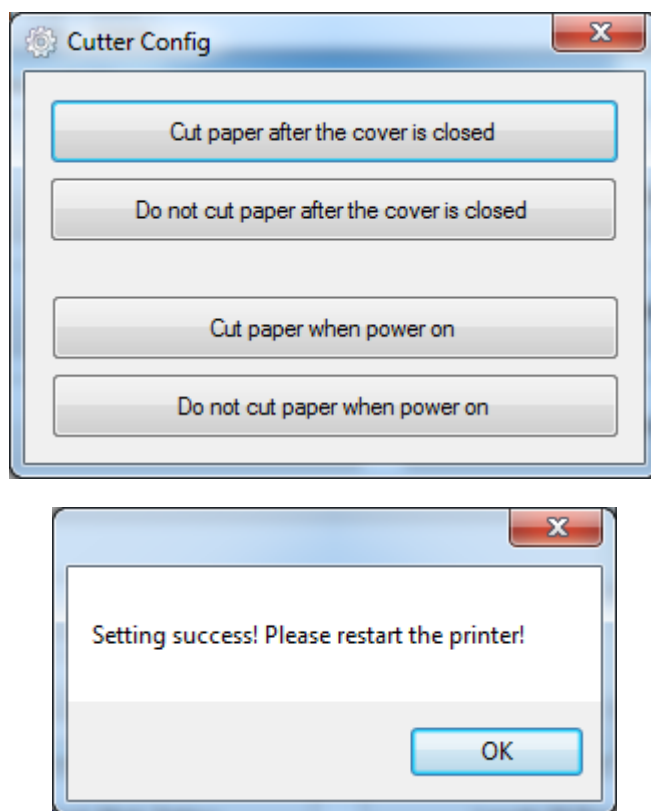


When the "simple pairing" is checked, the printer does not need to enter the Bluetooth password to connect, when the "simple pairing" is not checked, the printer needs to enter a Bluetooth password to connect.

2.2.7.9 Length of Print



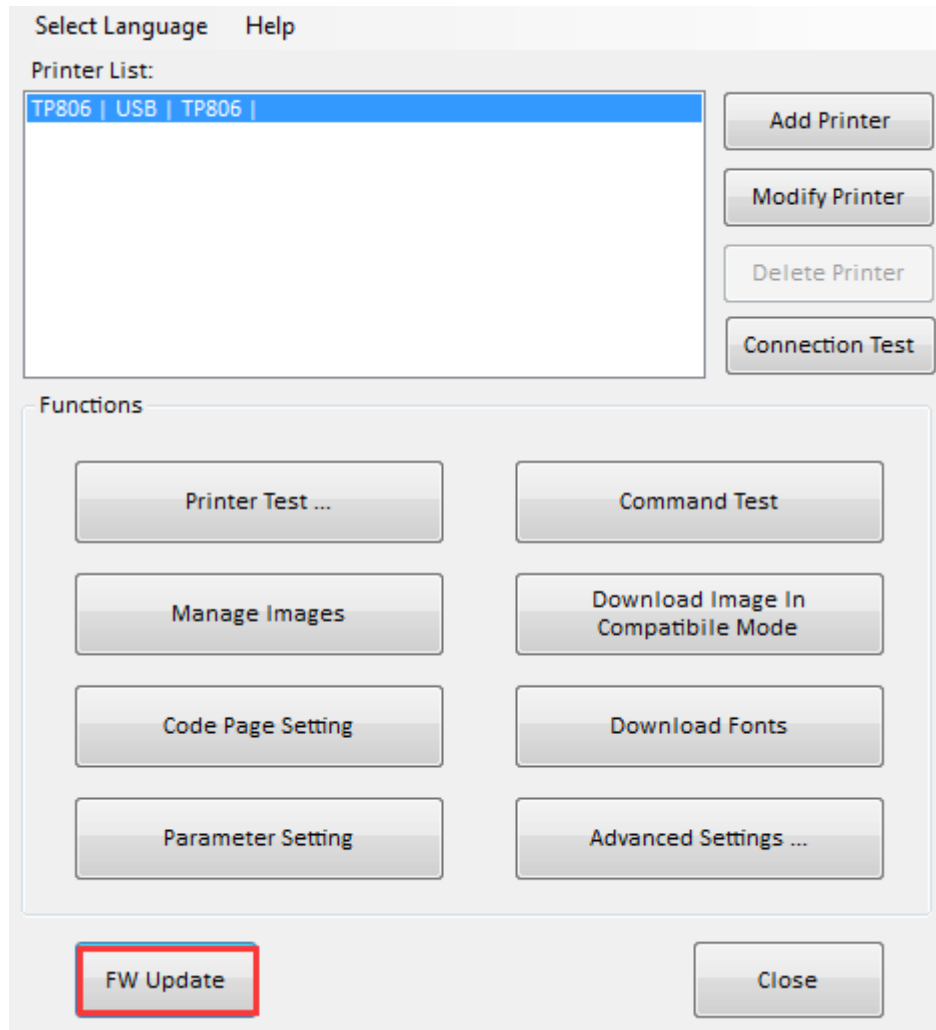
2.2.7.10 Cutter Config



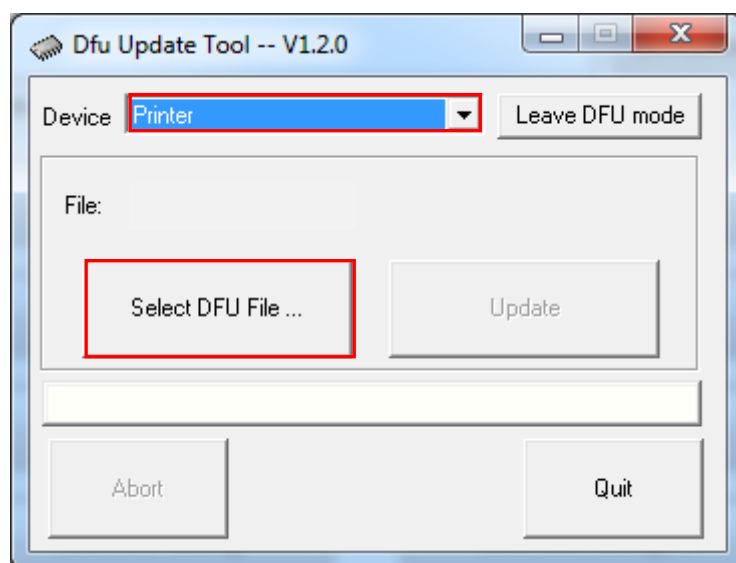
- 1) Cut paper after the cover is closed: the printer automatically cuts the paper after closing the cover.
- 2) Do not cut paper after the cover is closed: the printer does not automatically cut the paper after closing the cover.
- 3) Cut paper when power on: the printer automatically cut paper after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

3. Firmware Update

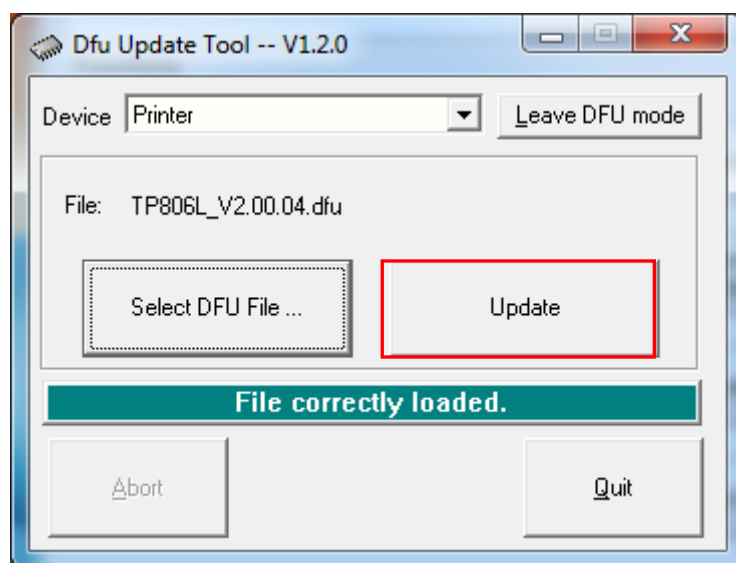
1) Click "FW Update".



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



3) Click "Update".



4) After the setting be finished, click "Leave DFU mode", then restart the printer.