



TP80C

User Manual



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Content

Statement.....	5
Important Safety Instructions.....	6
1 OVERVIEW.....	8
1.1 Introductions.....	8
1.2 The Main Features.....	8
2 GETTING STARTED.....	9
2.1 Packing List.....	9
2.2 Appearance.....	10
3 SPECIFICATIONS.....	11
3.1 Printer Specification.....	11
3.2 Printing Media Specification.....	13
3.2.1 Continuous Thermal Paper Specification.....	13
3.2.2 Notices.....	13
3.3 Printing and Cutting Position.....	14
3.3.1 Printing position.....	14
3.3.2 Cutting Position.....	14
4 INSTALLATION AND USAGE.....	15
4.1 Media Loading.....	15
4.2 Power Connection.....	17
4.3 Cash Drawer Connection.....	19
4.4 LED Indication.....	19
4.5 Print Test.....	20
4.5.1 Print Self-Test.....	20
4.5.2 Printing of Windows Driver Program.....	20
5 INTERFACES.....	21

5.1 USB.....	21
5.2 Cash Drawer Interface.....	22
5.3 Power Supply Interface.....	23
5.4 Serial Interface.....	24
5.5 Ethernet Interface.....	25
6 TROUBLESHOOTING.....	26
6.1 Printer Not Working.....	26
6.2 LED Indicator and Beeper Alarm.....	26
6.3 Troubles Occur During Printing.....	26
6.4 Problems Emerge During the Paper Cutting.....	27
7 PRINTER CLEANING AND MAINTENANCE.....	28
7.1 Cleaning Head.....	28
7.2 Cleaning Sensors, Roller and/or Paper Path.....	28
8 WINDOWS DRIVER MANUAL.....	29
8.1 Manual Information.....	29
8.2 Operating System (OS) Environment.....	29
8.3 Windows Driver Preparation.....	29
8.4 Windows Driver Installation.....	30
8.5 Detailed Windows Driver Setting.....	34
8.5.1 Printing Preferences.....	34
8.5.2 Printer properties.....	66
8.6 Uninstall Windows Driver.....	68
9 UTILITY TOOL FOR POS INSTRUCTION.....	69
9.1 Utility Tool Installation.....	70
9.2 Using Utility Tool.....	73
9.2.1 Add/Modify/Delete/Connect Printer.....	73
9.2.1.1 Add printer.....	73

9.2.1.2 Modify printer.....	74
9.2.1.3 Delete printer.....	76
9.2.1.4 Connection Test.....	77
9.2.2 Functions.....	79
9.2.2.1 Printer Test.....	80
9.2.2.2 Command Test.....	84
9.2.2.3 Manage Images.....	87
9.2.2.4 Download Fonts.....	90
9.2.2.5 Parameter Setting.....	91
7.2.2.7 Advanced Setting.....	104
9.3 Firmware Update.....	110
10 FCC WARNING.....	112

Statement

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Version 1.5

Warnings



This must be complied with in order to avoid any damage to the human body and to the equipment.



This is showing the important information and tips for the printer operating.



Note:

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

Important Safety Instructions

◆ Safety Warning



The print head will become very hot during printing, please do not touch the print-head and peripheral parts during printing and printing just finished.



Please do not touch the print-head and connectors, in case that static damages the printer head.

◆ Instructions

Carefully read the installation and operating instructions provided with the printer before starting up your printer.

- 1) Place the printer on a flat and stable surface.
- 2) Leave enough space around printer for operation and maintenance.
- 3) Do not place the printer on or near a heat source.
- 4) Do not use the printer near water. Never spill liquid into the printer.
- 5) Do not expose the printer to high temperatures, direct sunlight or dust.
- 6) Protect the printer from shock, impact and vibration.
- 7) Be certain the power source is within the voltage rating and frequency listed for the printer.
- 8) Switch off the printer power supply when won't use it for a long time.
- 9) Do not place the power cord where it can be stepped on. If the power cord becomes damaged or frayed, replace it immediately.
- 10) To ensure the print quality and reliability, you are suggested to use the recommended paper or the same quality paper.
- 11) Please switch off the power supply when connect/disconnect all the ports or it will cause damage to the printer control circuit.
- 12) Never carry out maintenance or repair work yourself. Always contact a qualified service technician.
- 13) Keep this User Manual in a place which is easily accessible at all times.

◆ Other Precautions

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◆ 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.



Caution: This is a Class A product. In a domestic environment this product may cause radio interference in which the user may be required to take adequate measures.

1 OVERVIEW

1.1 Introductions

TP80C is a thermal receipt printer, featured by high print quality, high print speed, high stability, etc. It can be used in commercial POS system, food industry and occasions which need real-time field print receipts.

TP80C can connect with other equipment through serial, Ethernet, USB and cash drawer interfaces. And the printer drivers are available for the WINDOWS XP/WINDOWS 7/WINDOWS 8/WINDOWS 10/Linux operating system.

1.2 The Main Features

- 1) Low noise
- 2) High print speed
- 3) Easy paper loading
- 4) Cash drawer interface

2 GETTING STARTED

2.1 Packing List

After receiving your printer, please check for possible shipping damage:

1. Check the outside of the box and the printer for possible damage.
2. Check whether you have received the following accessories together with the printer, if there are any items missing, please contact your local dealer.



Printer



USB Cable



Power Adapter



Power Cord



Roll Paper



Quick Start Guide



Serial Cable

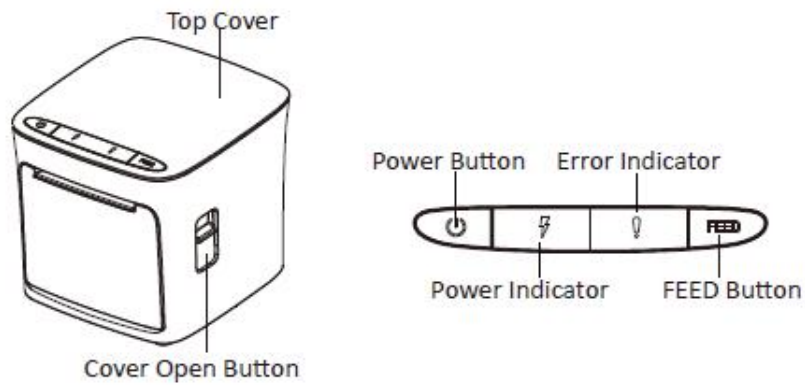


Notes:

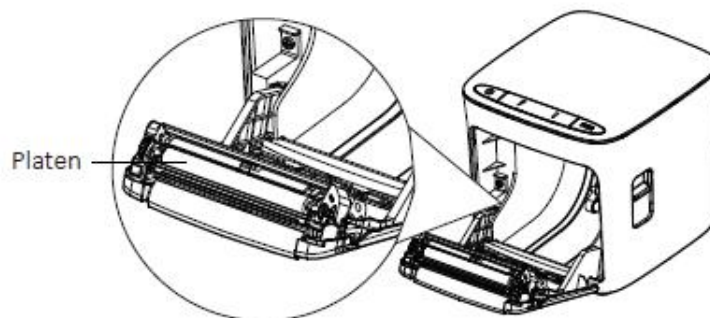
- 1) *The power adapter and power cord vary by local and region.*
- 2) *The packing materials are actually dependent on the order.*

2.2 Appearance

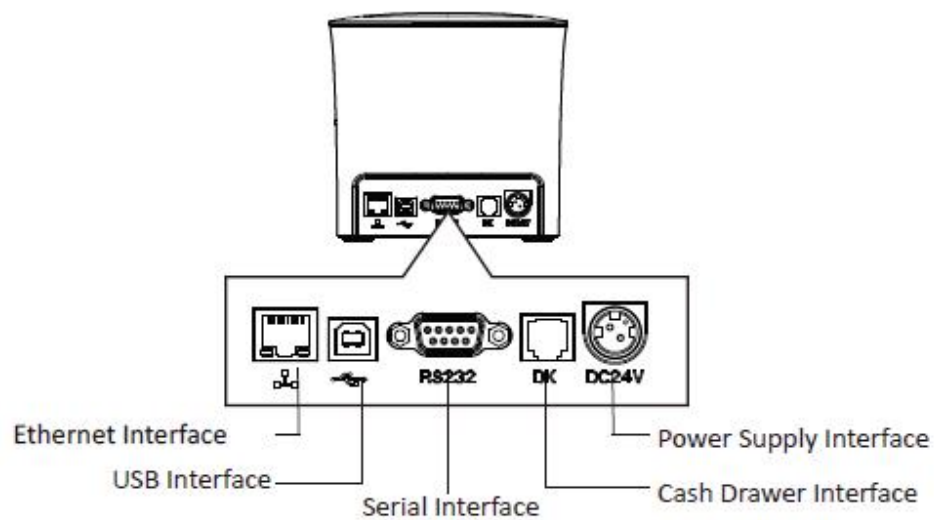
■ Front



■ Inside



■ Back



3 SPECIFICATIONS

3.1 Printer Specification

Item		Parameter
Printing Parameter	Printing Method	Direct thermal line printing
	Resolution	Default 203 DPI, 180 DPI can be emulated
	Printing Width	72mm (576dots)
	Printing Speed	Max. 220mm/s
	Printing density	Adjustable from degree 1 to degree 4
	Printing Direction	Vertical and horizontal
Interface	Default	Built-in USB, RS232, Ethernet, cash drawer, power supply
	Optional	N/A
Auto cutter		Partial cut
Page mode		Yes
Memory	RAM	16 MB
	Flash	4 MB
Character set	Font	Font A: 12*24 Font B: 9*17 CHN: 24*24
	Number of Columns	48/64
	Alphanumeric	95
	Code page	PC437(std.Europe), Katakana, PC850(Multilingual), PC860(Portuguese), PC863(Canadian), PC865(Nordic), PC857(Turkish), PC737(Greek), ISO08859-7(Greek), WPC1252, PC866(Cyrillic #2), PC852(Latin 2), PC858(Euro), KU42(Thai), TIS11(Thai), TIS18(Thai), PC720(Arabic), WPC775(Baltic Rim), PC855(Cyrillic), PC862(Hebrew), PC864(Arabic), ISO8859-2(Latin2), ISO8859-15(Latin9), WPC1250(Latin 2), WPC1251(Cyrillic), WPC1253(Greek), WPC1254(Turkish), WPC1255(Hebrew), WPC1256(Arabic), WPC1257(Baltic Rim), WPC1258(Vietnamese), MIK(Cyrillic), PC755(Latin 2), Iran, Iran II, Latvian, ISO-8859-1(WestEur), ISO-8859-3(Latin 3), ISO-8859-4(Baltic), ISO-8859-5(Cyrillic), ISO-8859-6(Arabic), ISO-8859-8(Hebrew), ISO-8859-9(Turkish), PC856, PC3848(ABICOMP), MONGOLIAN, VISCII
Graphics		Support bitmap printing with different density and user defined bitmap printing (Max.64K for per bitmap, and Max. 556K for total)
Barcode	1D	UPC-A, UPC-E, EAN8, EAN13, CODE39, ITF, CODEBAR, CODE128, CODE93
	2D	QR code, PDF417
Detection	Sensor	Paper end, Cover Open
Power supply	Input	AC100V-240V 50-60HZ
	Output	DC 24V±5%, 2.5A

Item		Parameter
Paper	Paper Loading	Front loading, Easy loading
	Paper Type	Standard thermal paper
	Paper Width	79.5±0.5mm
	Paper Thickness	0.056~0.13mm
	Paper Roll Diameter	83mm Max.
Condition	Operating	0~45℃/10~85%RH
	Storage	-20~60℃/10~90%RH
Reliability	TPH Life	100 KM
	Cutter Life	1,000,000 times
Emulation		ESC/POS
Packing Information	Dimensions	141.8mm*153.8mm*136.1mm (W*D*H)
	Accessories	Power adaptor, RS232 cables, Quick Guide, USB cable, paper roll
Software	Driver	Windows (Win10/POSReady/Win8/Win7/Vista/XP/2000), Linux, OPOS
	SDK	WinCE, Win Mobile, Android, iOS
Certification		CCC

3.2 Printing Media Specification

3.2.1 Continuous Thermal Paper Specification

Paper Type : Standard thermal paper

Paper Width : 79.5±0.5mm

Paper Outer Diameter : Max. 83 mm

Paper Thickness : 0.056~0.13mm

3.2.2 Notices

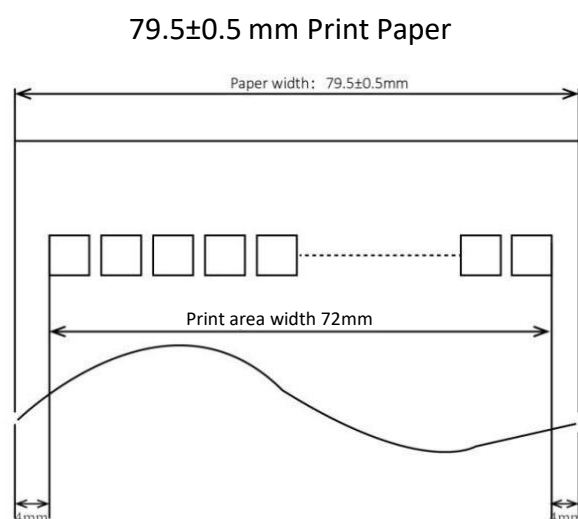


Notes:

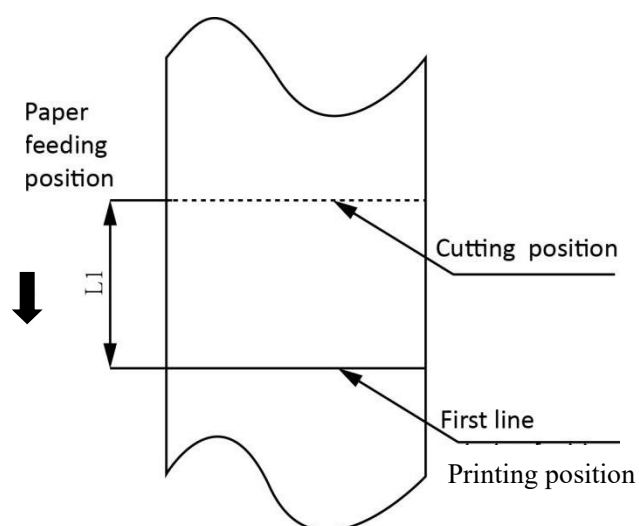
- *Please use the recommended thermal paper or same quality paper, otherwise it will influence the printing quality and decrease the thermal printer head life.*
- *Do not stick the paper on the paper roll mandrill.*
- *If the thermal paper is polluted by chemical or oil, the thermal paper heat sensibility decreases, which will influence the printing quality.*
- *Do not use finger nail or hard articles to touch the surface of thermal paper, otherwise it will cause color fading.*
- *When the environment temperature is higher than 70°C, the thermal paper color will fade, so pay attention to the influence of temperature, humidity and sunlight.*

3.3 Printing and Cutting Position

3.3.1 Printing position



3.3.2 Cutting Position



Type	Paper Cutting Position(L1)
TP80C	8.5mm

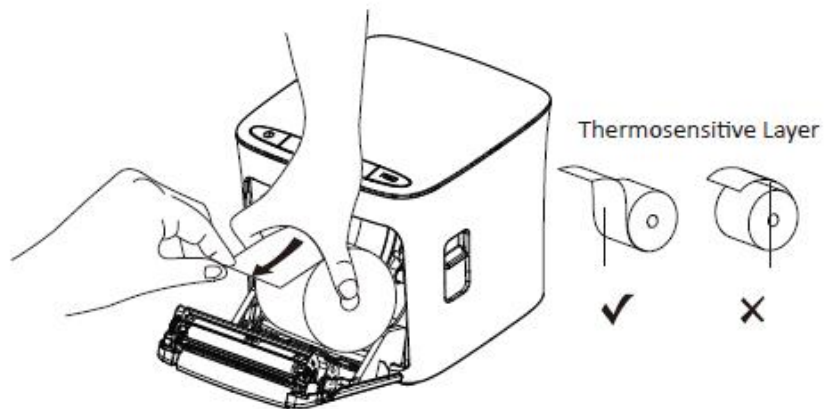
4 INSTALLATION AND USAGE

4.1 Media Loading

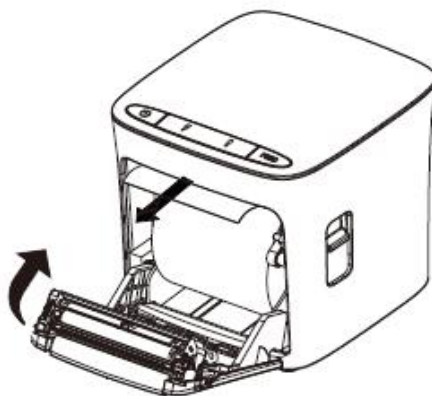
- 1) Press the cover open button to open the top cover.



- 2) In the correct direction of the paper roll , insert the paper.



- 3) Pull out some paper, and close the top cover.



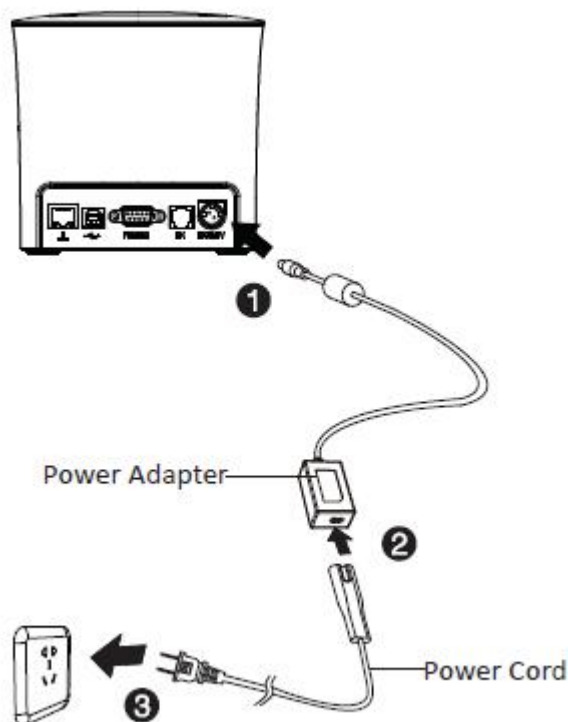
- 4) Tear the extra paper of the printer.



 **Note:** make sure the roll is entangled, otherwise it may cause paper jam or other failures.

4.2 Power Connection

- 1) Make sure the printer power is turn off.
- 2) Connect power adapter to printer
- 3) Connect power adapter to power cord.
- 4) Plug the other side of power cord into the socket outlet.



Notes:

- ▶ Please only use the power adapter recommended by supplied or equivalent products.
- ▶ When disconnecting the power adapter plug, handheld plug connector housing, to avoid the pulling on the cable in force.
- ▶ Avoid dragging the power adapter cable, otherwise it will damage the cables and cause fire and shock.
- ▶ Avoid putting power adapter around a heating device, otherwise the cable may melt, causing fire and shock.
- ▶ If you do not use the printer for a long time, disconnect the power supply of printer power

adapter.

4.3 Cash Drawer Connection

- 1) Make sure the printer's power switch is turned off.
- 2) Connect the cash drawer cable into the cash drawer interface on the rear side of the printer.



Warning:

Cash drawer interface can only be connected to a voltage of 24V cash drawer device (can't connect to the phone line, etc.)

4.4 LED Indication

Function specification of indicated light and beeper.

Name	Status	Specification
POWER LED (Green)	ON	The printer works well.
	OFF	The printer is power off.
ERROR LED (Red)	Flash	The printer in an error state
	OFF	The printer in a normal state

Description	POWER LED	ERROR LED	Beeper
Cover Open	ON	ON	"Beep , Beep--,Beep"
No Paper	ON	ON	"Beep, Beep, Beep"
Cutter Jam	ON	Flash	"Beep—, Beep—"



Notes:

The printer uses a thermistor to detect the temperature of the print head. If the temperature of print head is more than 65° C, printer will send a warning. If the temperature of print head is more than 80° C, printer will stop working until the temperature is less than 60° C.

4.5 Print Test

4.5.1 Print Self-Test

The self-test checks the printer's current settings, status and whether the printer has any problem.

1. Make sure the power is connecting and paper is loading properly.
2. Make sure the printer is off and top cover closes properly.
3. Pressing the paper feed button and power button simultaneously turns the printer on. The printer is ready to receive data as soon as it completes the self-test.

4.5.2 Printing of Windows Driver Program

1. Install the Windows Driver program. (Please refer to the Windows Driver Manual)
2. Please set the "Interface" as the type you use.
3. Use the Windows Driver Program to print out the "Print Test Page".

5 INTERFACES

TP80C supports serial interface, Ethernet interface, cash drawer interface and USB interface.

5.1 USB

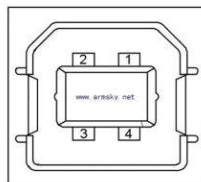


Figure 5-1

PIN	SIGNAL NAME
1	VBUS
2	D-
3	D+
4	GND

5.2 Cash Drawer Interface

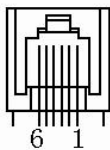


Figure 5-2

PIN	SIGNAL NAME
1	FG
2	Drawer 1
3	DRSW
4	VDR
5	Drawer 2
6	GND

Electrical characteristics

- Driving voltage: DC 24V
- Driving current: Maximum 0.8 A (In 510 ms)

Detection signal for drawer status: "L" = 0 ~ 0.5 V "H" = 3 ~ 5 V

5.3 Power Supply Interface

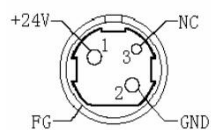


Figure 5.3

PIN	SIGNAL NAME
1	+24V
2	GND
3	N.C
SHELL	F.G



Notes:

- **Strictly prohibit unplug the cable while the printer is power on.**
- **When arranging the line of communication, you have to avoid paralleling with the strong current.**
- **you have to use the shielded communication line.**

5.4 Serial Interface

Printer TP80C serial interface is compatible with RS-232 standard, with 9 pin socket.

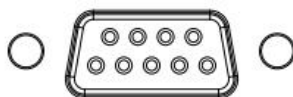
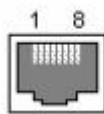


Figure 5.4

PIN NO.	Signal Name
1	-
2	TXD
3	RXD
4	-
5	GND
6	DTR
7	-
8	RTS
9	-

5.5 Ethernet Interface



PIN No.	Signal Name
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 use the network connection router, switch and other network communication equipment which meet RJ45 interface standard. When connecting directly with PC, it is suggested that the cross network line in accordance with RJ45 interface standard should be adopted.

6 TROUBLESHOOTING

Your printer is very reliable, but occasionally problems may occur. This chapter provides information on some common problems you may encounter and how to solve them. If you encounter problems that you can not resolve, contact your dealer for assistance.

6.1 Printer Not Working

Problem Description	Probable Reason	Solution
LED not light, printer not working	Printer no power	Connect the power supply
	Printer not on	Turn on the printer
	Circuit board broken	Contact with the dealer

6.2 LED Indicator and Beeper Alarm

Problem Description	Probable Reason	Solution
Error LED always on and beeper alarms	Printer Cover open	Close the printer cover
Paper LED and Error LED always on and beeper alarms	Paper end	Reload the paper roll
Error LED flashes and beeper alarms	Thermal print head overheated	Turn the printer off and resume when it cools
	overvoltage	Print with specified voltage
	Low-voltage	Print with specified voltage

6.3 Troubles Occur During Printing

Problem Description	Probable Reason	Solution
Blurred printing or spot	Incorrect paper roll installation	Check if the paper roll is installed
	Unqualified paper roll	Use recommended thermal paper roll
	Dirty thermal head or print roller	Clean the thermal head or print roller
	Low print density	Increase the print density level
Paper Jam	Paper strike	Open the printer cover, check the paper path and remove jammed paper
Vertical print words missing	Dirty thermal head or print roller	Clean the thermal head or print roller
	Thermal head damaged	Contact your dealer for assistance

6.4 Problems Emerge During the Paper Cutting

Problem Description	Probable Reason	Resolution
Cutter jam, the movable cutter cannot go back	Cutter abrasion, insufficient cutting	Replace the cutter
	Worm gear and worm wheel abrasion	Replace the worm gear and worm wheel
	Motor burnt	Replace the motor
	Paper scraps	Clean the paper scraps on the transmission system
Insufficient cutting	Cutter edge abrasion, paper too thick	Replace the cutter
Paper jam	Thermal printer head over heat	Reduce the density of printing
	Driving too fast	Reduce the printer speed to the limit of thermal printer head
	Wrong paper feeding position	Put the paper parallel with the paper mount and insert into the space between platen roller and the thermal printer head.



Note: The density of setting, please refer to "Utility Tool Manual"

7 PRINTER CLEANING AND MAINTENANCE

Print quality might be degraded by dust, foreign substance, adhesive substance, or other pollution materials stuck in the printer head or inside the printer.

When dirty, clean the print head by following steps:

※ CAUTION

- Make sure to turn off the printer prior to cleaning.
- As the print head gets hot during printing, turn the printer off and wait approximately 2~3 minutes before starting to clean the print head.
- When cleaning the print head, take care not to touch the heated portion of the print head.
Print Head is susceptible to damage from static electricity, etc.
- Be careful and print head become scratched and/or damaged in any way.

7.1 Cleaning Head

- 1) Open the Printer Cover and then use the cleaning pen to clean the head in the direction from the center of the head to the edges.
- 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.

7.2 Cleaning Sensors, Roller and/or 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.

※ Clean the parts whenever print quality or paper detection degraded.

8 WINDOWS DRIVER MANUAL

8.1 Manual Information

This Windows Driver Installation Manual provides information on installation, detailed specifications, and usage of the printer's Windows Driver according to PC operating system (OS).

We maintain ongoing efforts to enhance and upgrade the functions and quality of all our products. As follows, product specifications and/or user manual content may be changed without prior notice.

8.2 Operating System (OS) Environment

The following operating systems are supported for usage.

- Microsoft Windows 10 (32 bit/64 bit)
- Microsoft Windows 8 (32 bit/64 bit)
- Microsoft Windows 7 SPI (32 bit/64 bit)
- Microsoft Windows Vista SP2 (32 bit/64 bit)
- Microsoft Windows XP Professional SP3 (32 bit)
- Microsoft Windows Server 2012(64 bit)
- Microsoft Windows Server 2008 R2

8.3 Windows Driver Preparation

The installation file name is POS Printer Driver-v-X.X.X.X.exe

eg. : POS Printer Driver-v-2.6.7.0.exe

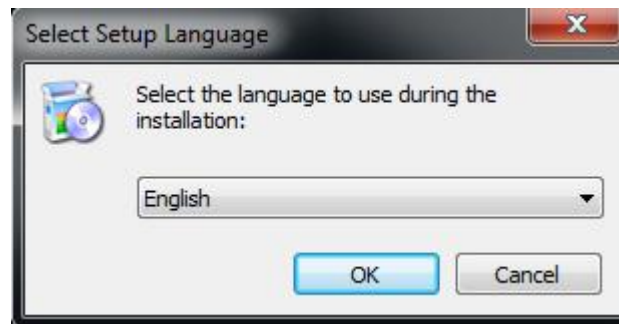
8.4 Windows Driver Installation



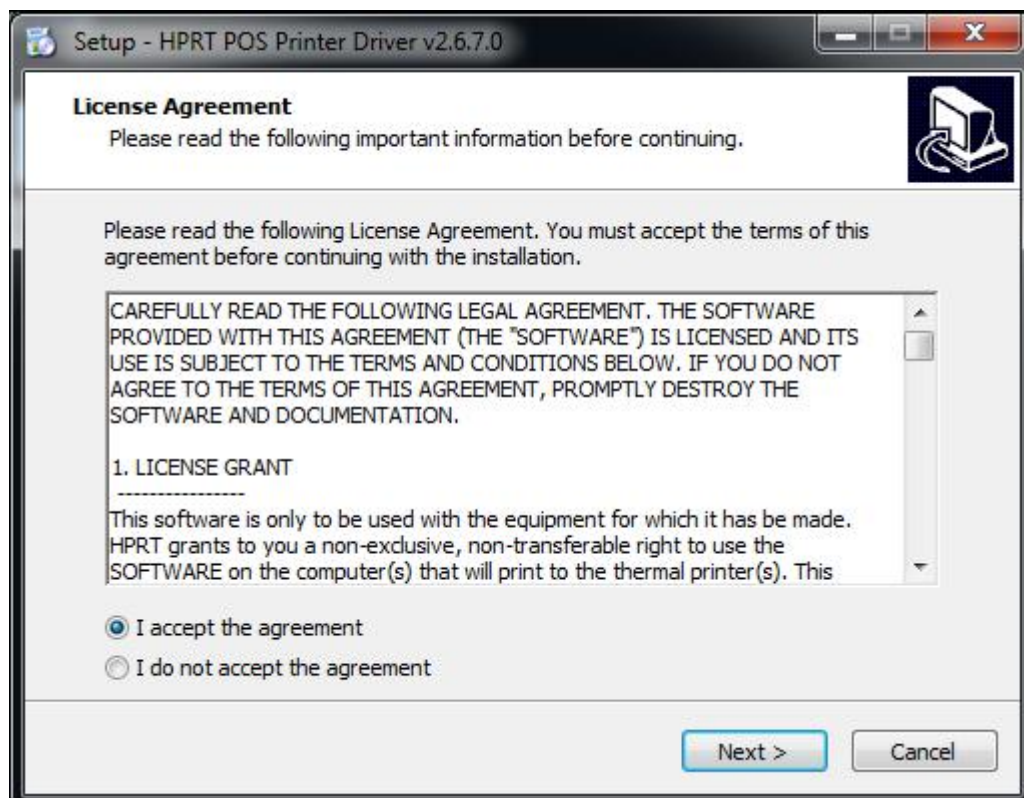
Warning:

Under different operating system, the screen has slight difference. Please operate it according to the tips. Take TP80C (Windows 7) as example.

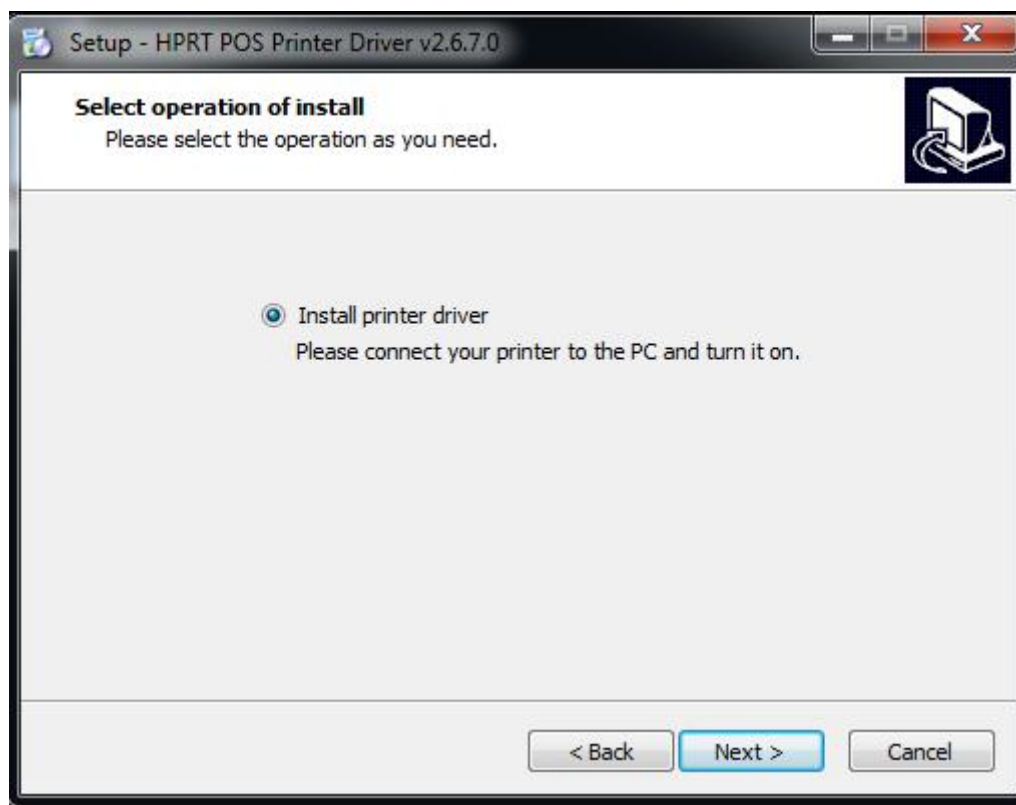
- (1) Double click Windows Driver, and choose language.



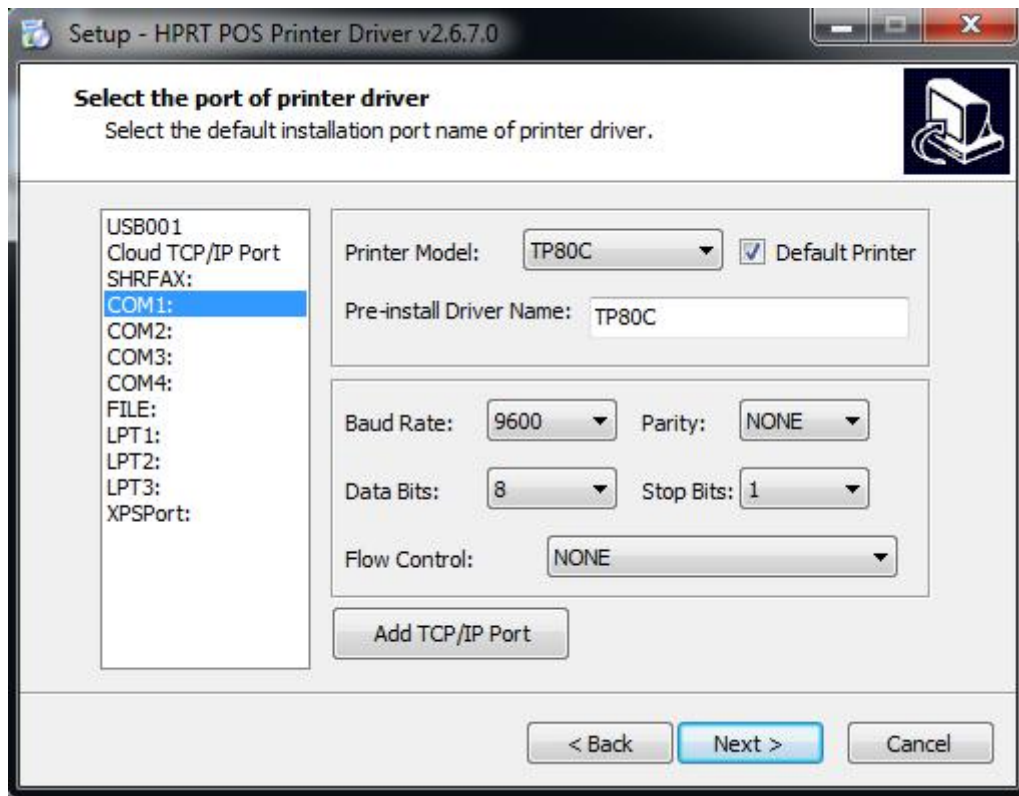
- (2) Choose "I accept the agreement" and click "Next".




(3) Click "Next"

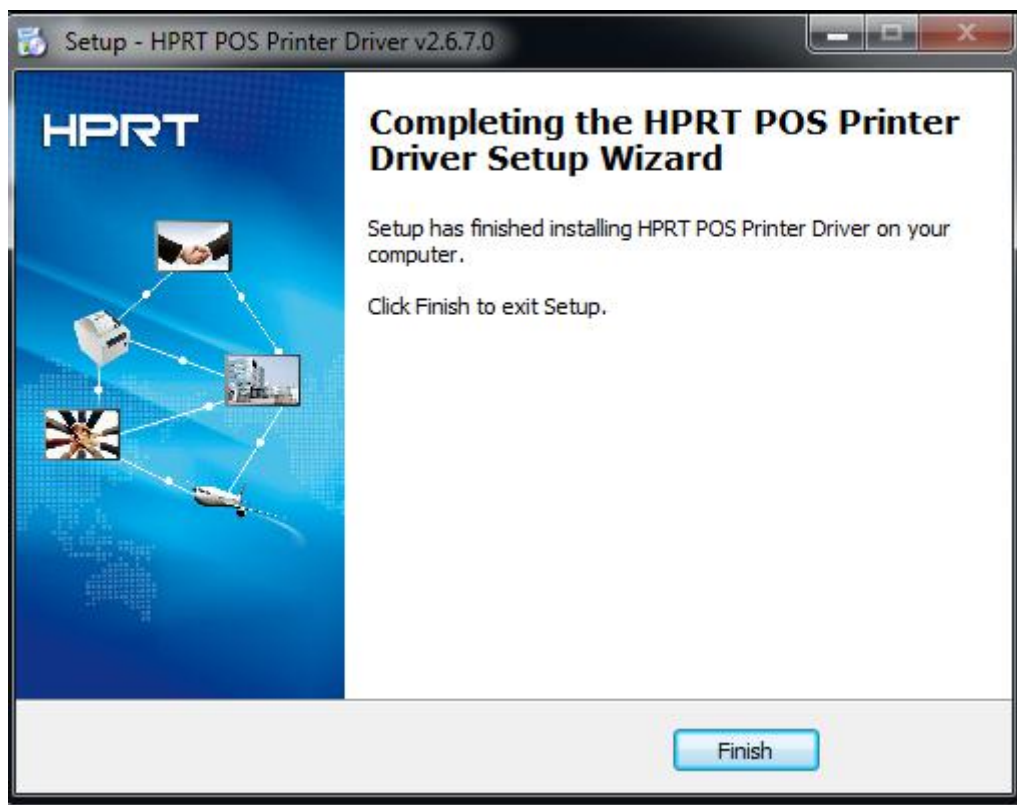


- (4) Choose the matched type and port (USBxxx is for USB port, COMx is for serial port, LPTx is for parallel port). Choose the type and port of driver, such as "TP80C", "COM1". Click "Next".



 **Note:** If printer is already connected with computer by USB port, it only needs to click "Install", then it will be installed automatically. Otherwise, proceed to the next step.

(5) Click "Finish". POS printer driver is installed successfully.



(6) After installation, the icon will be found in "Start" → "Devices and Printers".

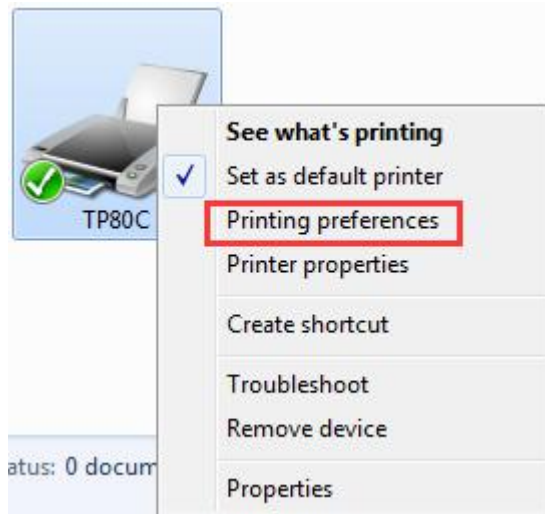


Note: *If you already installed the driver (No matter what kind of port), when you connect the printer with computer, it will create a USB port automatically.*

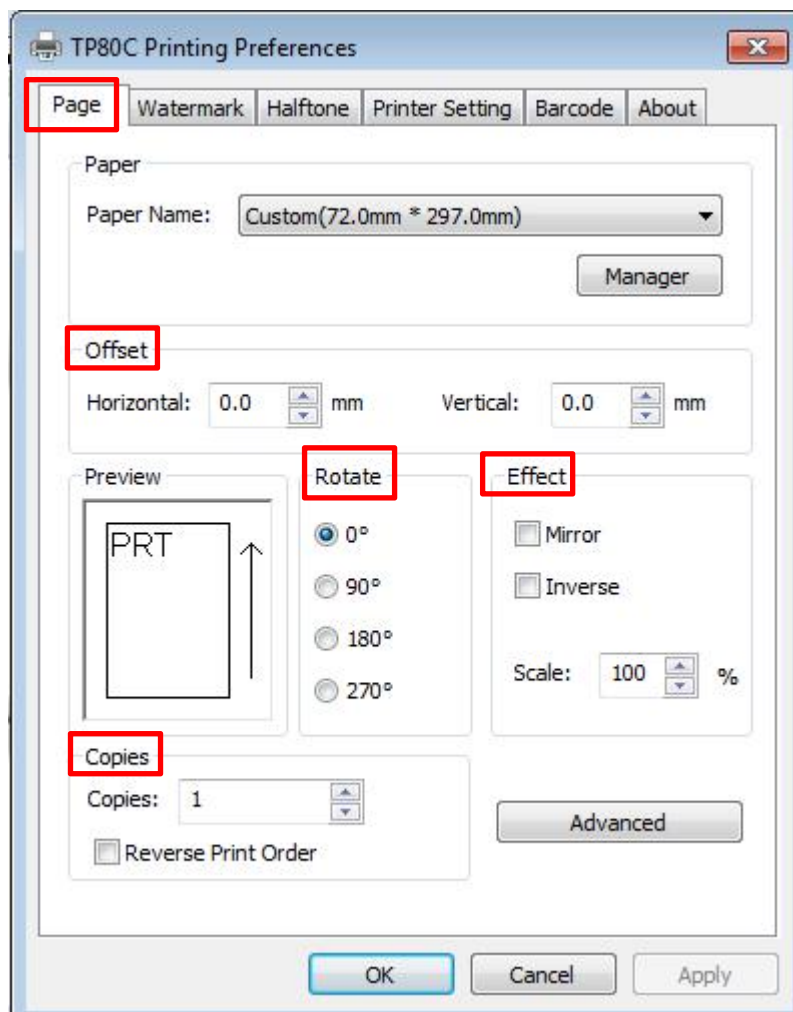
8.5 Detailed Windows Driver Setting

8.5.1 Printing Preferences

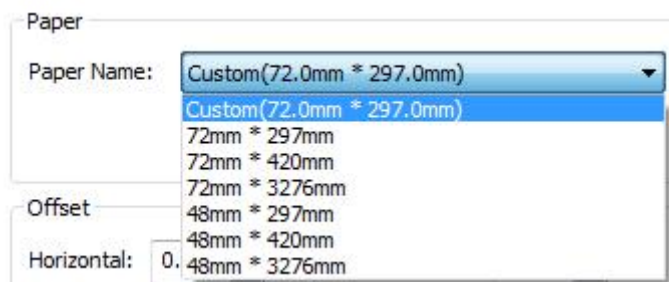
(1) Click "Start"→"Devices and Printers". Right click "TP80C" and choose "Printing preferences".



- (2) According to the different needs, choose "Paper"\ "Offset"\ "Rotate"\ "Effect"\ "Copies" in "Paper".

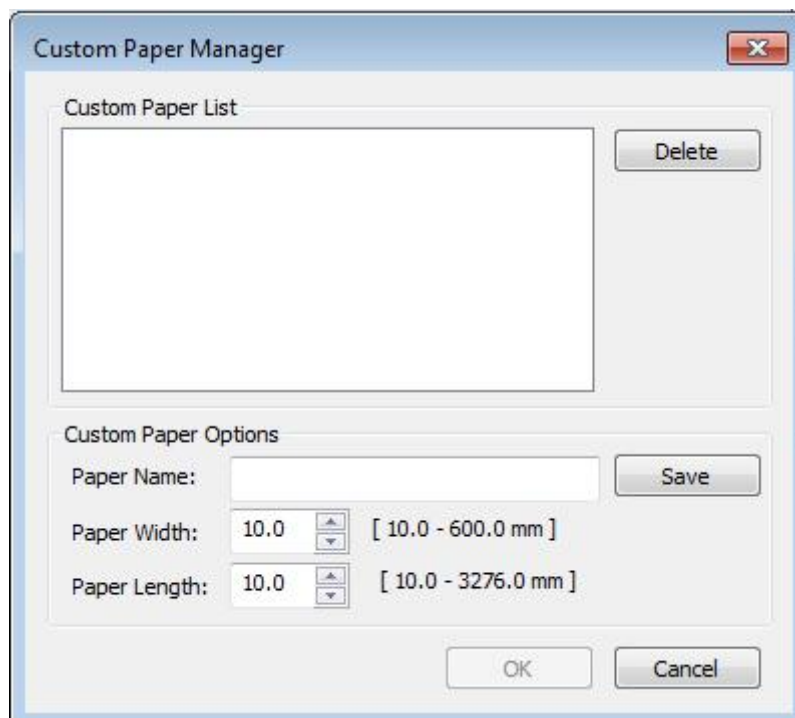


- Click on "Paper Name".



The screenshot shows a 'Paper' section with a 'Paper Name:' dropdown menu. The menu is open, displaying a list of paper sizes. The selected option is 'Custom(72.0mm * 297.0mm)'. Other visible options include '72mm * 297mm', '72mm * 420mm', '72mm * 3276mm', '48mm * 297mm', '48mm * 420mm', and '48mm * 3276mm'. Below the dropdown, there is an 'Offset' section with a 'Horizontal:' field set to '0'.

- Click on "Manager", add or delete paper.



The screenshot shows the 'Custom Paper Manager' dialog box. It has a title bar with a close button. Inside, there is a 'Custom Paper List' section with an empty list box and a 'Delete' button. Below this is the 'Custom Paper Options' section, which includes a 'Paper Name:' text field, a 'Paper Width:' spinner set to '10.0' with a range of '[10.0 - 600.0 mm]', and a 'Paper Length:' spinner set to '10.0' with a range of '[10.0 - 3276.0 mm]'. There are 'Save', 'OK', and 'Cancel' buttons at the bottom.

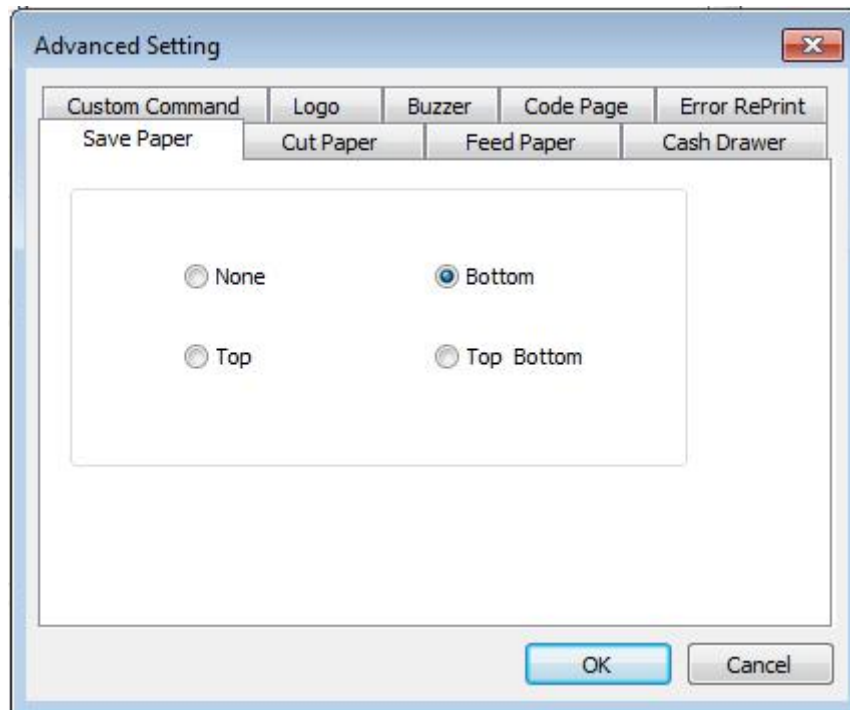
- Set direction of paper



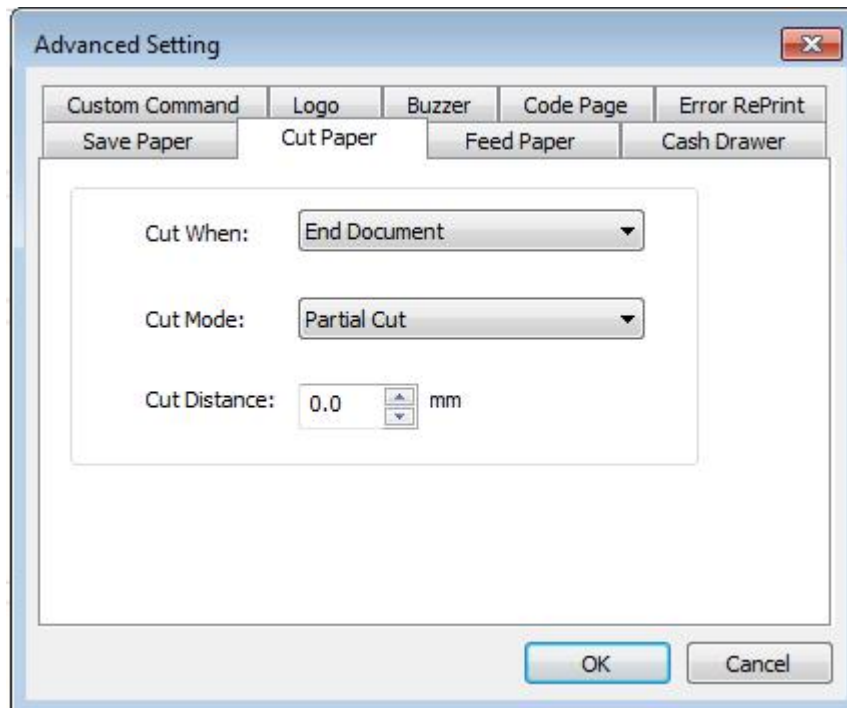
The screenshot shows the 'Offset' section of the software interface. It contains two fields: 'Horizontal:' and 'Vertical:'. Both fields have a spinner set to '0.0' and are followed by the unit 'mm'.

●Click on "Advanced" to set "Save Paper", "Cut Paper", "Feed Paper", "Cash Drawer", "Custom Command", "Logo", "Buzzer", "Code Page" and "Error Reprint".

■Save Paper

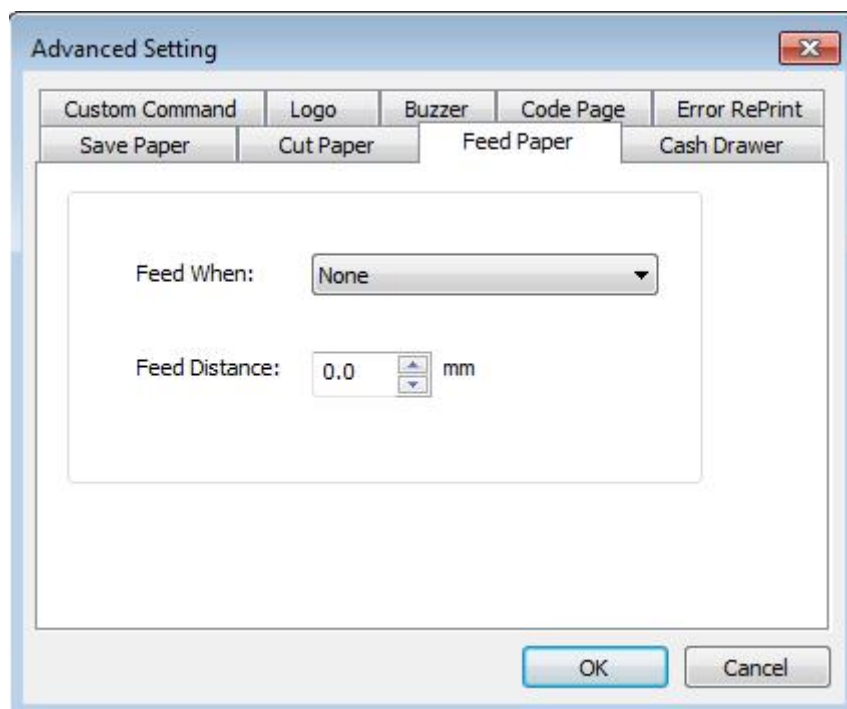


■Cut Paper



Cut Distance: 0/5/10/15/20mm (End Document)

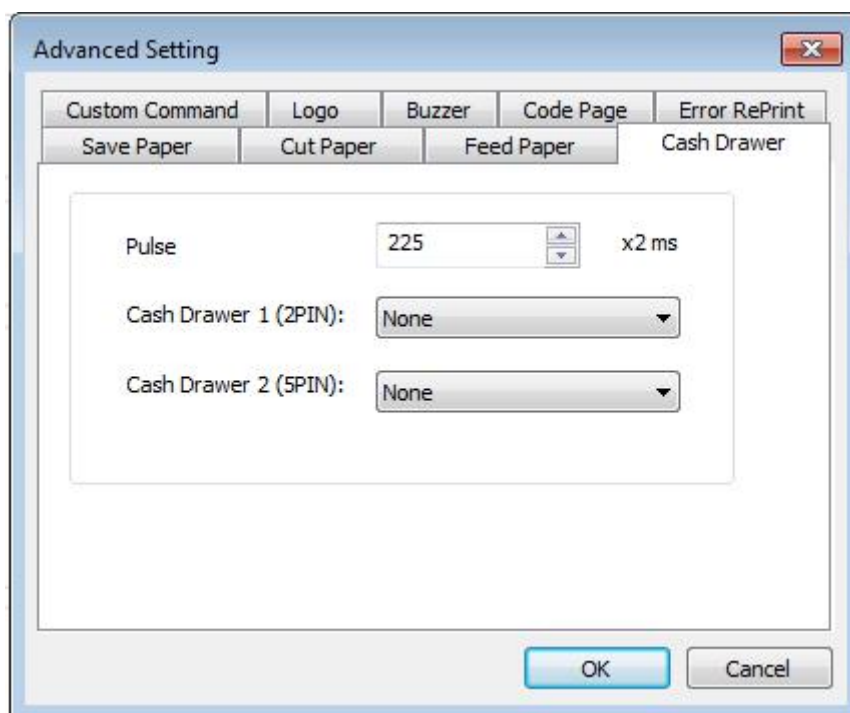
■Feed Paper



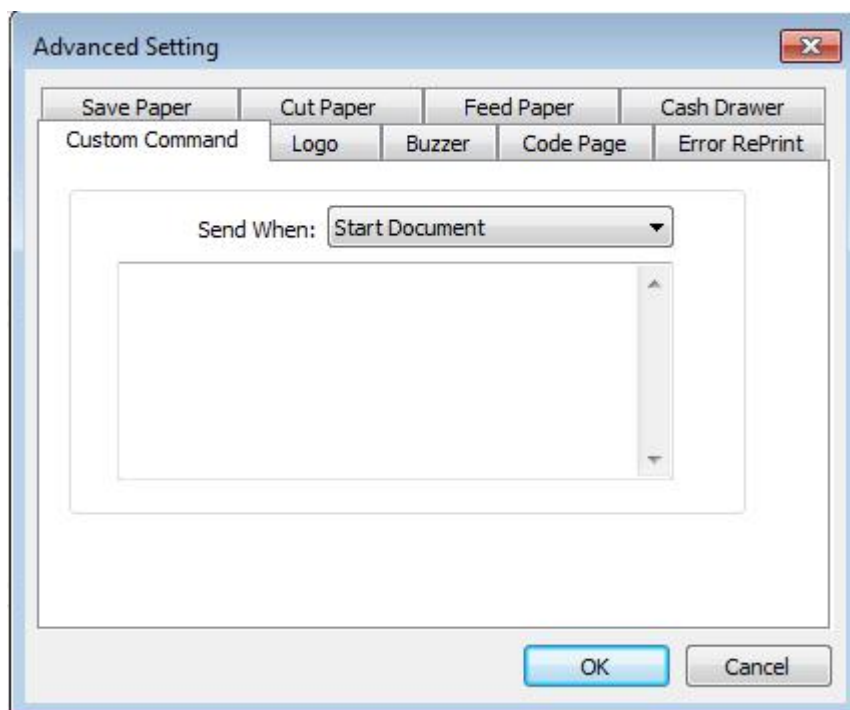
Feed Mode: Feed Automatically/Cut Automatically/Cut Automatically PerPage/None

Feed Distance: 0/5/10/15/20mm (End Document)

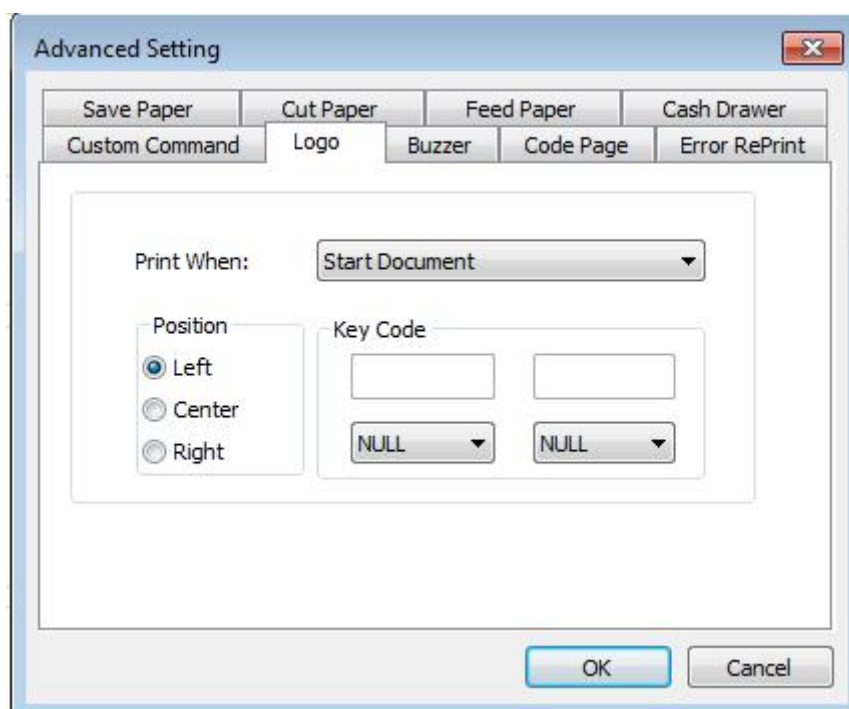
■Cash Drawer



■Custom Command

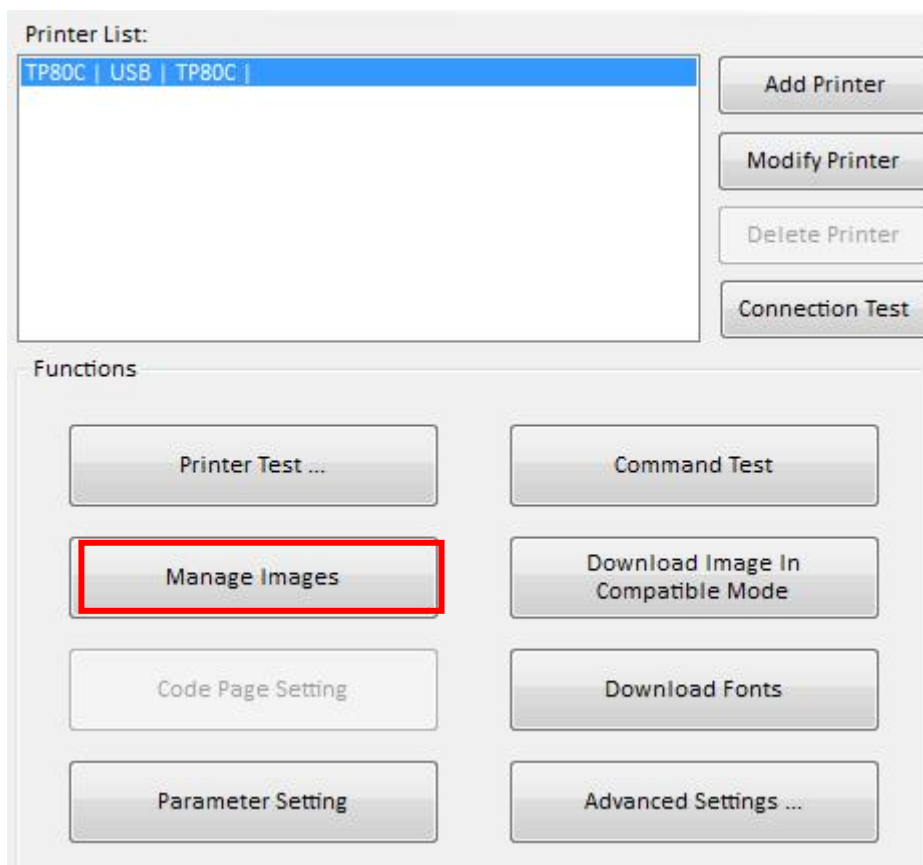


■Logo

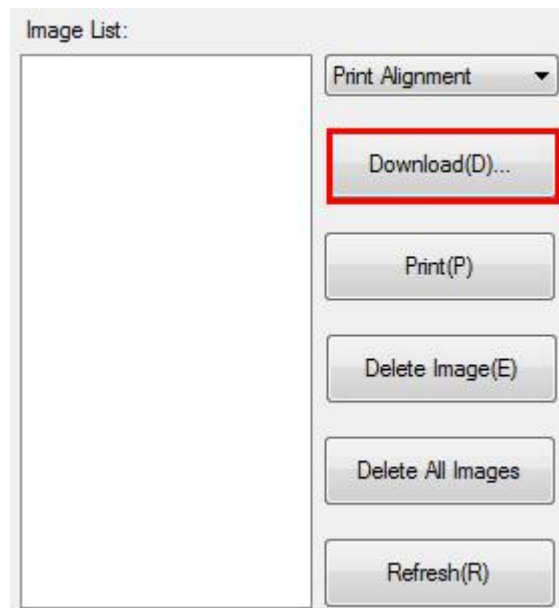


Note: this setting need to be set in utility, here are the steps.

- ① Open the utility and click "Manage Images".



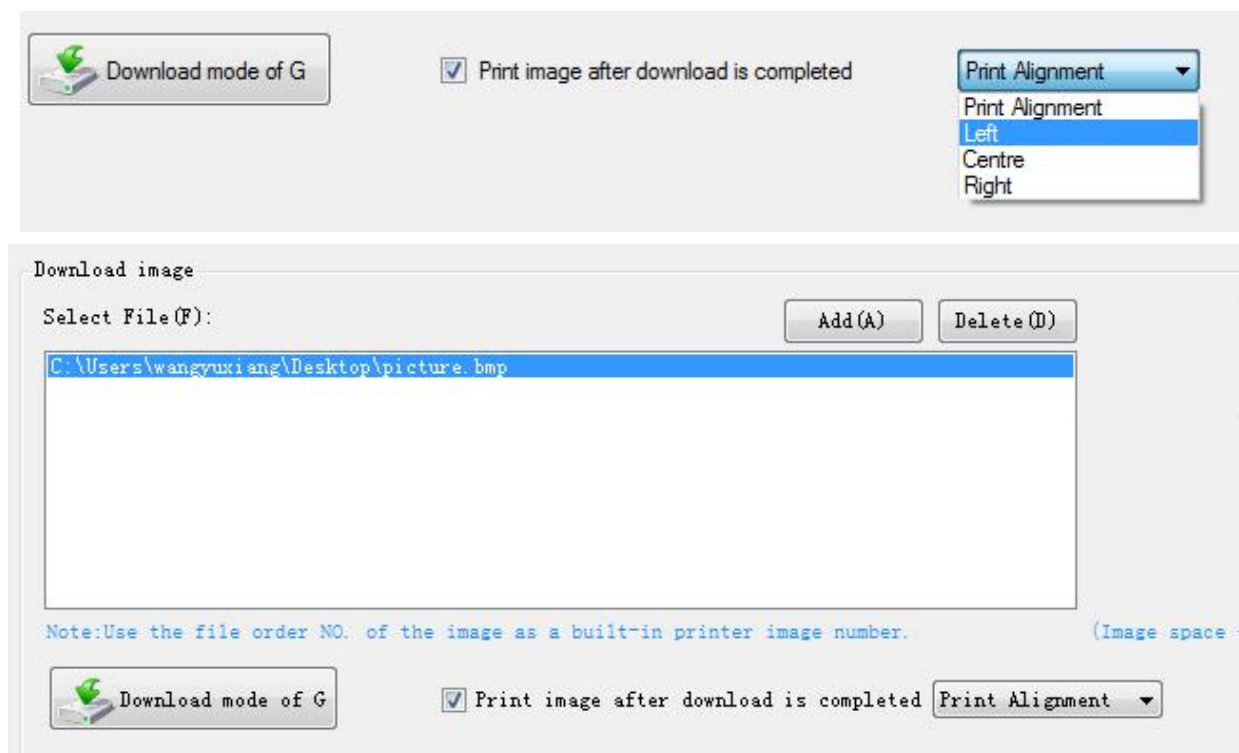
② Click "Download".



③ Click "Add" to add a logo. (BMP format is recommended)



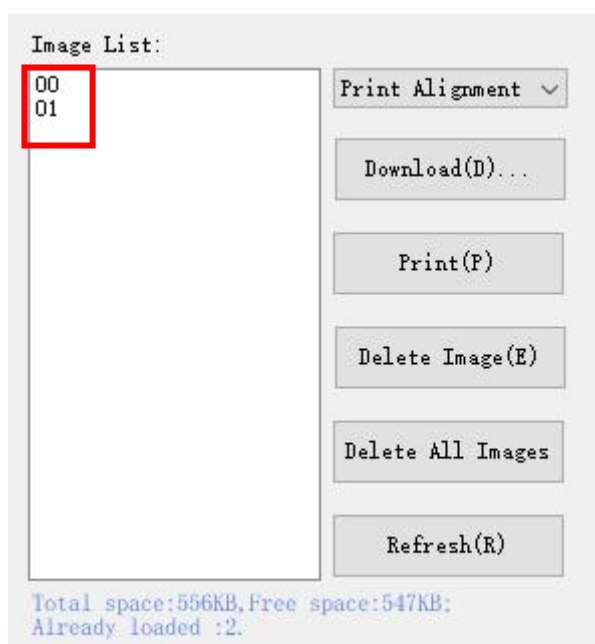
- ④ Select the print location, and then click "Download mode of G". (Such as: left print)



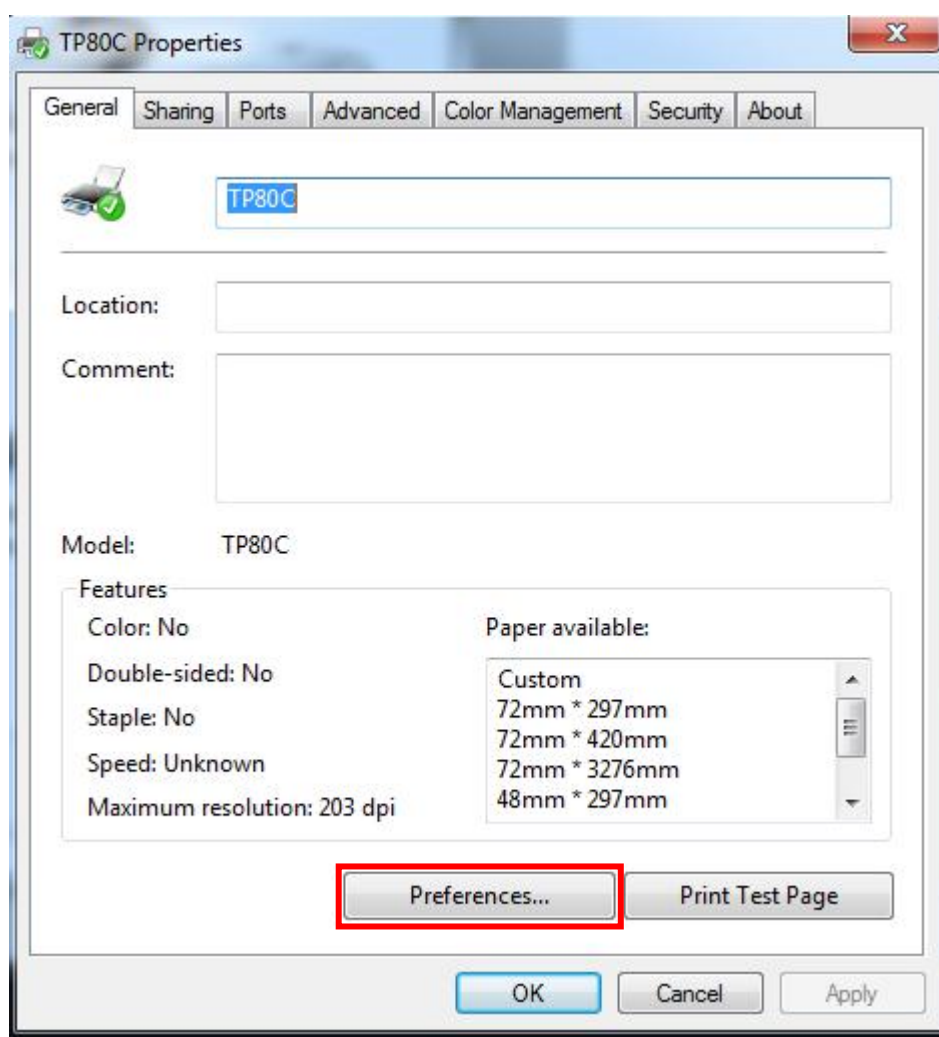
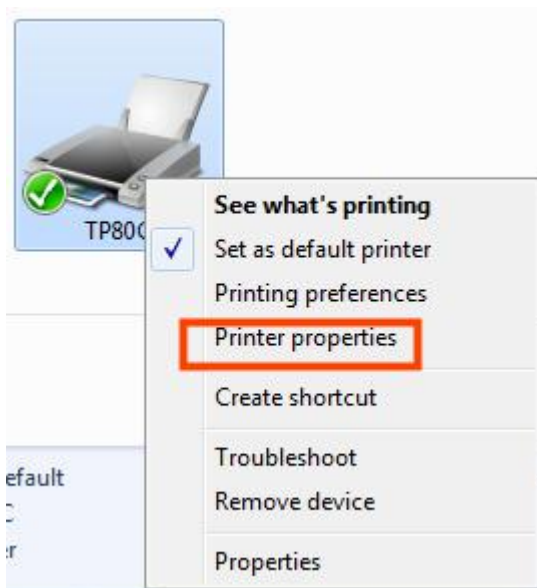
- ⑤ Return to image list to view the image number.



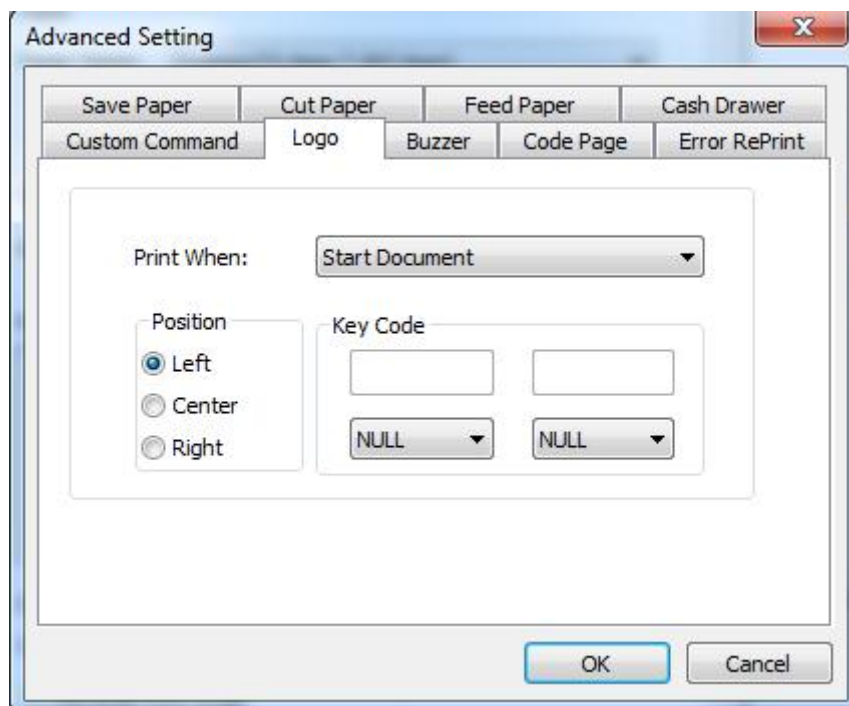
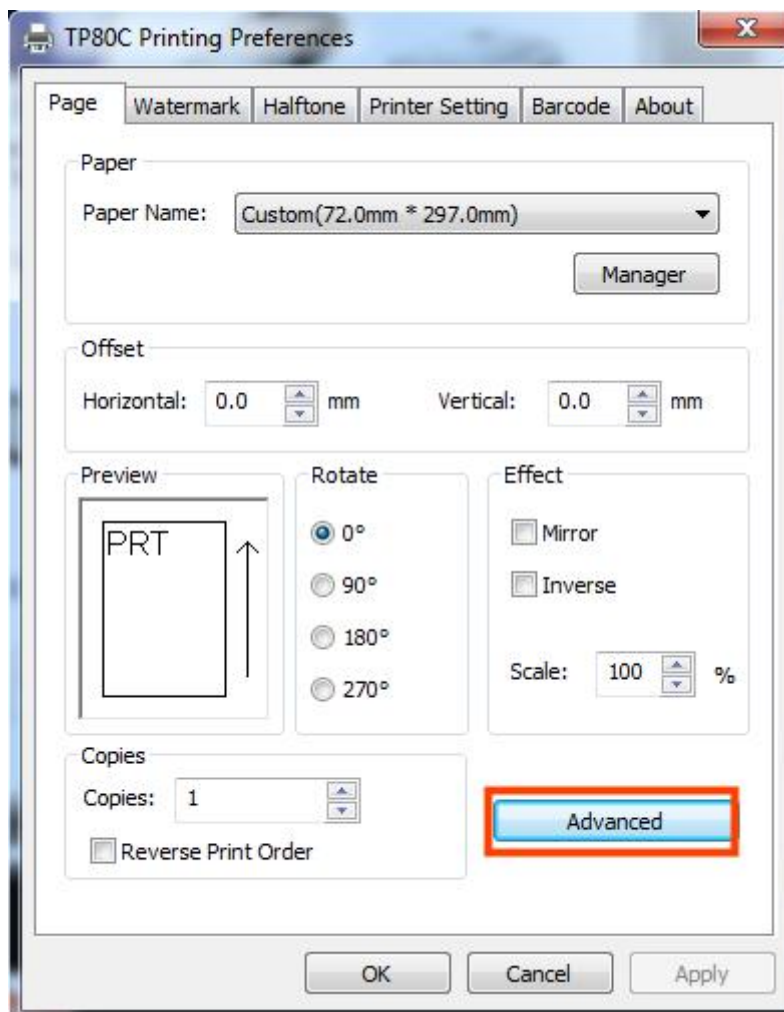
Note: each time click "Download mode of G", an image list number will be generated.



- ⑥ Select “Printer properties” in Devices and Printers, then click “Preference”.



- ⑦ Click the “Advanced”, then click “Logo”.



- ⑧ Set the printing time to print and click "OK". (Such as: Start Document)

Print When: Start Document

Position

☒ Left

☐ Center

☐ Right

Start Document

Start Page

End Page

End Document

NULL NULL

- ⑨ Return to the logo setting in driver, also select "Print left".

Print When: Start Document

Position

☒ Left

☐ Center

☐ Right

Key Code

NULL NULL

- ⑩ Set the key Code according to the image number. (Such as: 0 0)

Key Code

48 48

0 0

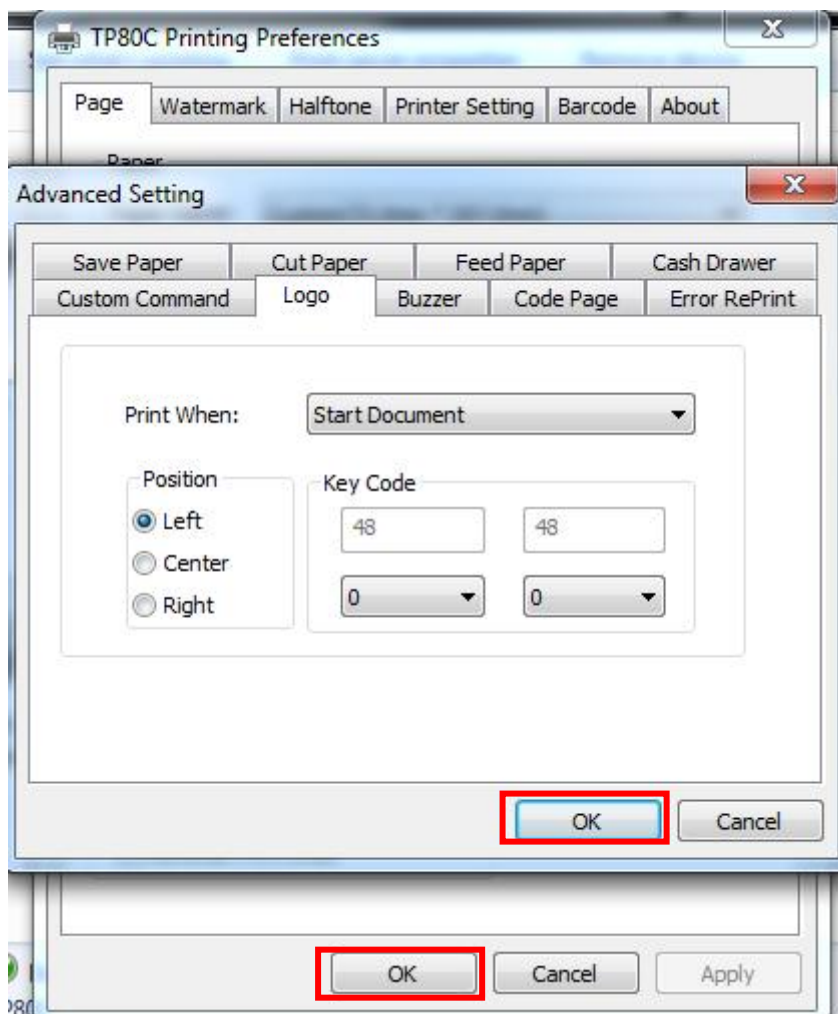
Image List:

00

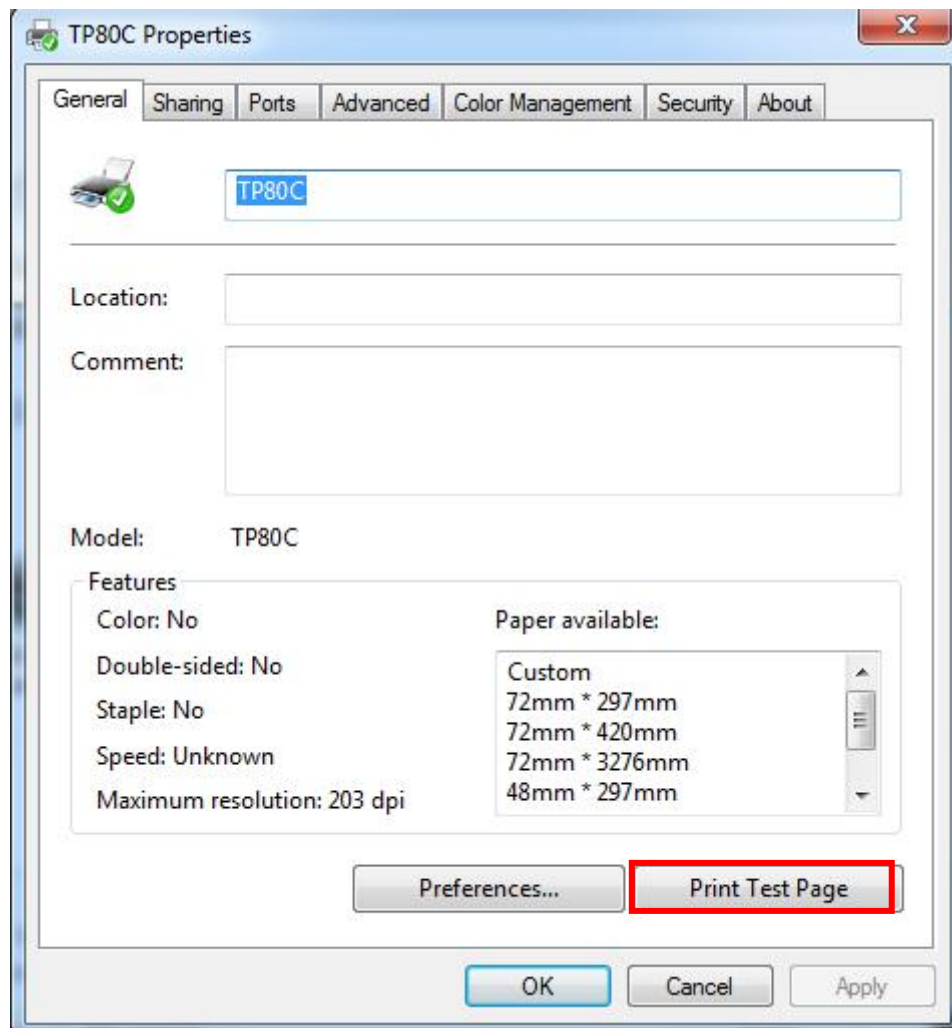
Print Alignment

Download(D)...

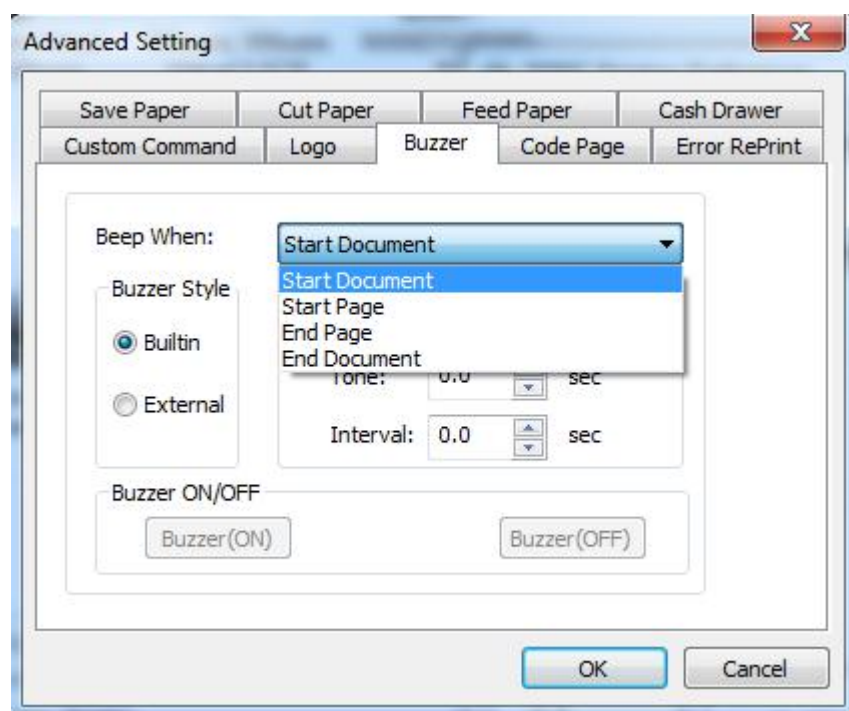
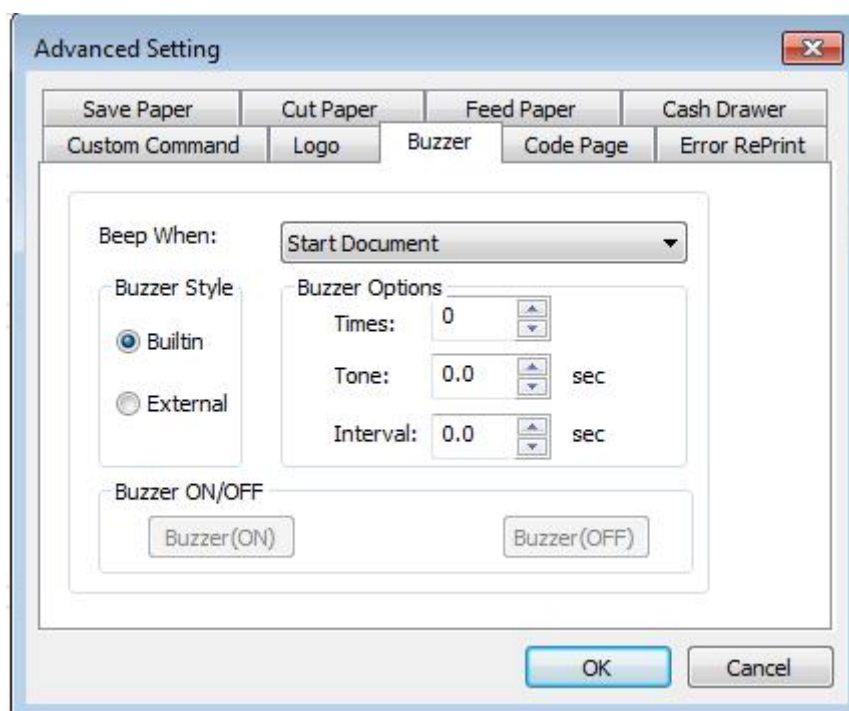
- ⑪ Then click “OK”.



- ⑫ Click “Print Test Page” to view the printing effect.



■ Buzzer



Buzzer times: 0/1/2/3/4/5

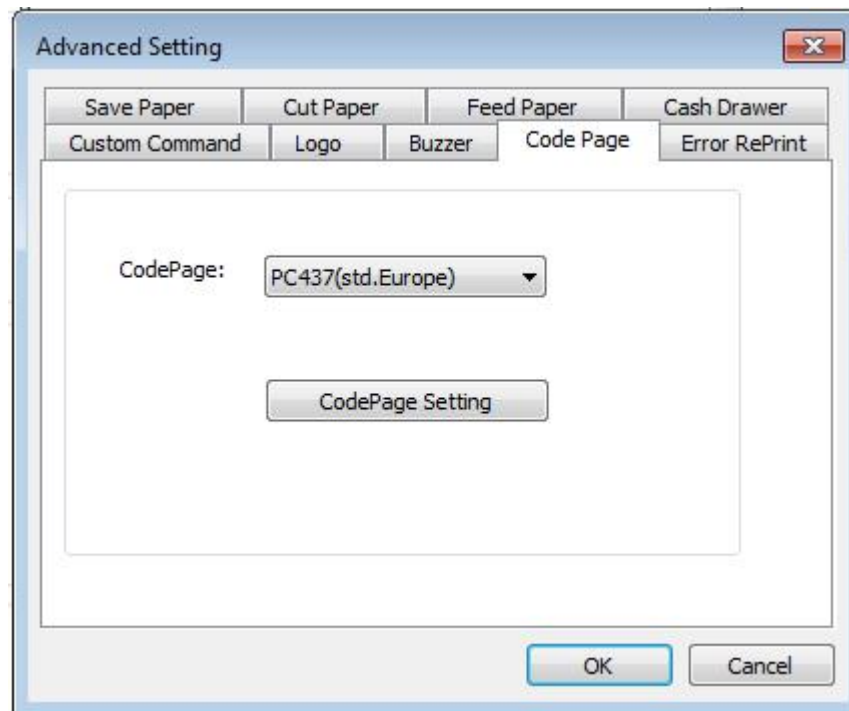
Buzzer Duration: 0.0/0.5/1/1.5/2/2.5/3.0 Sec

Buzzer Interval: 0.0/0.5/1/1.5/2/2.5/3.0 Sec

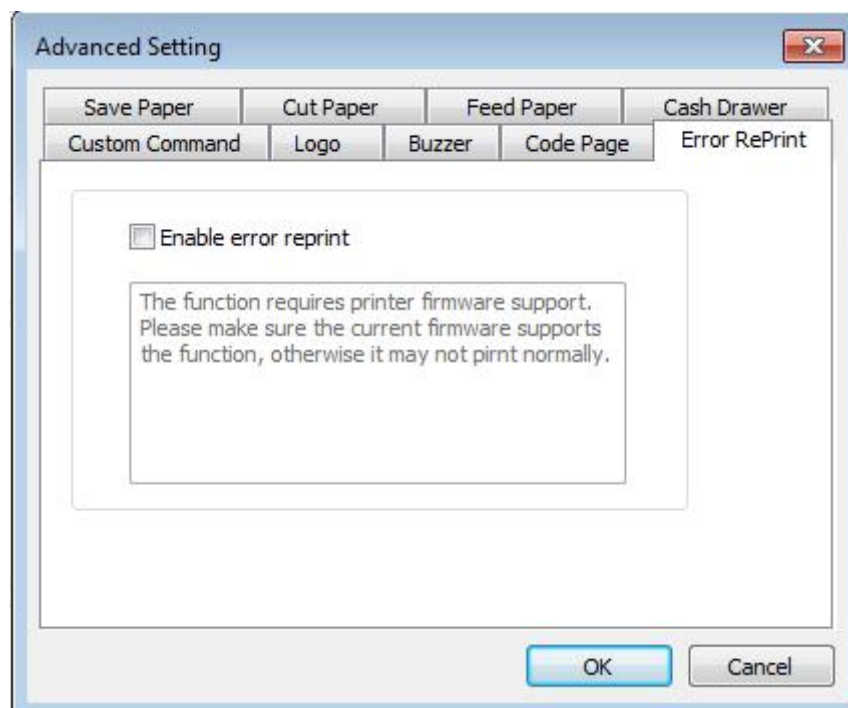


Note: This setting must be operated in Utility.

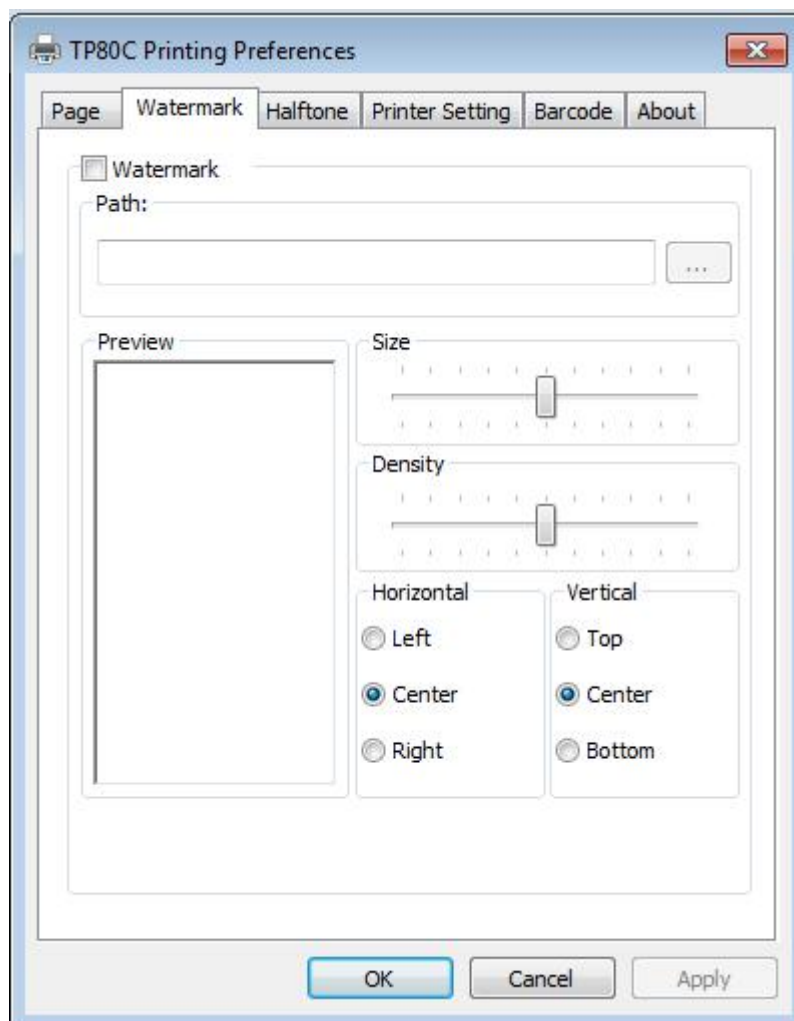
■Code Page



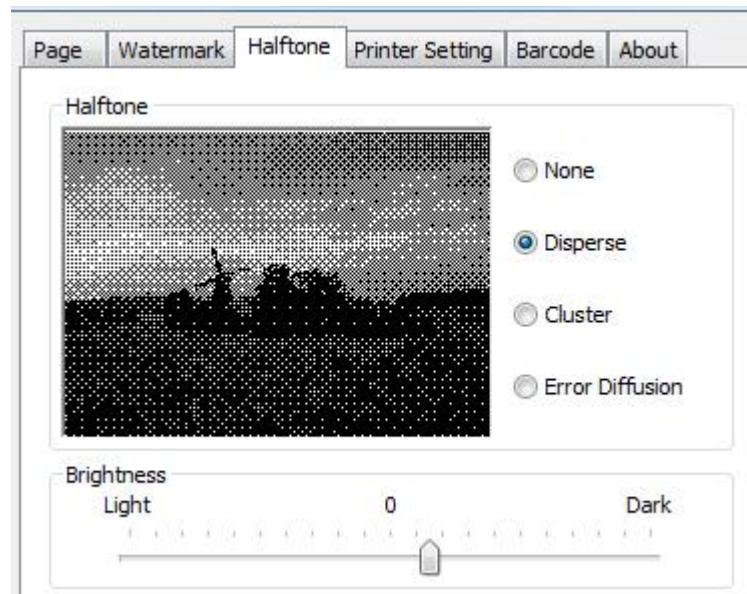
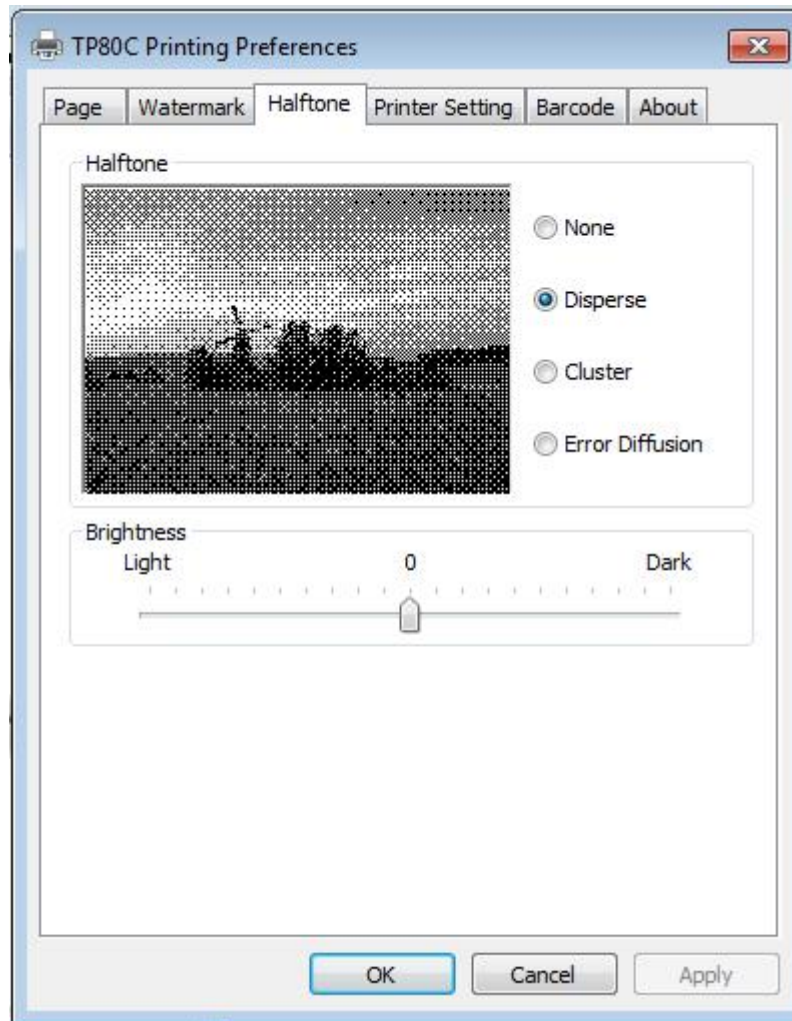
■Error Reprint



(3) Click "Watermark". Set watermark to print.



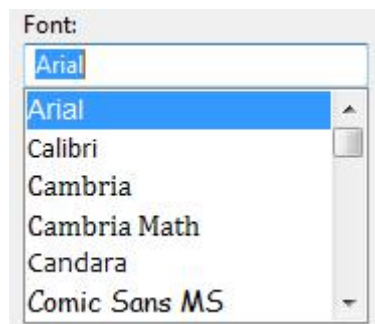
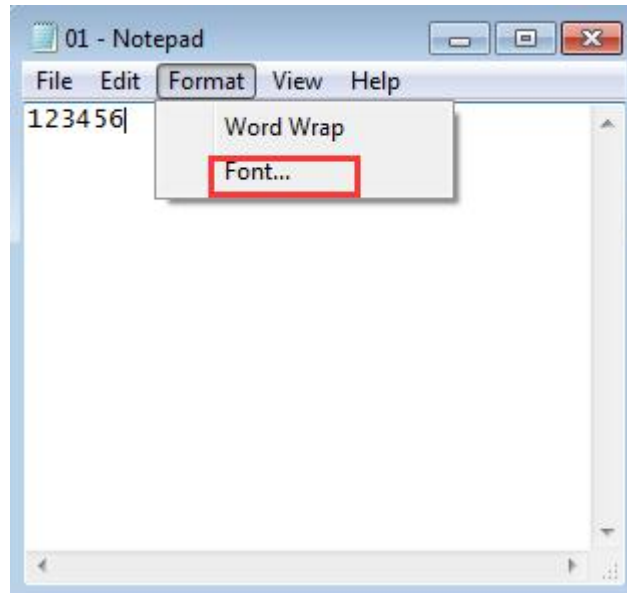
(4) Click "Halftone" to set the halftone.



(5) Set up the "Barcode"

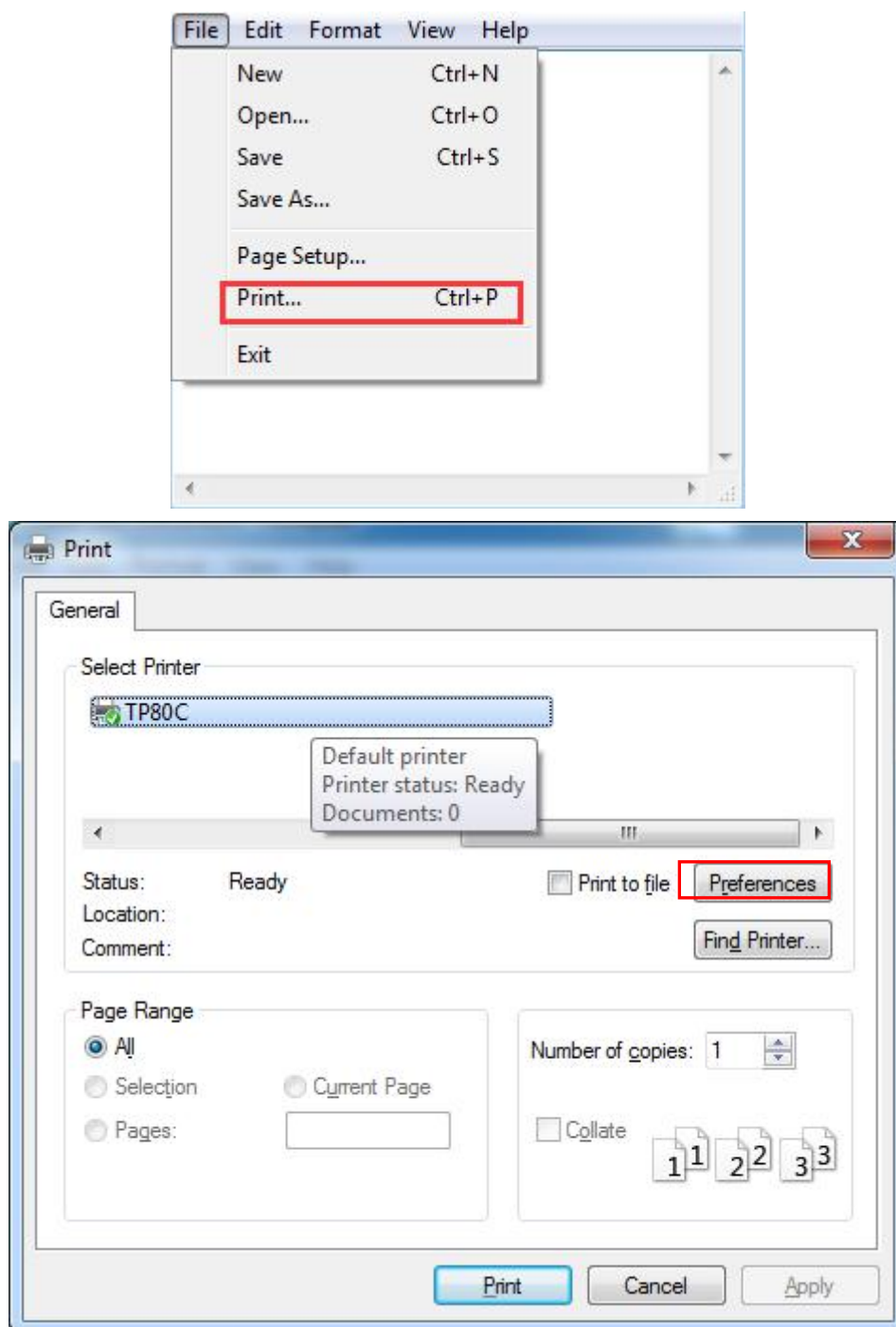
Assuming the font type of the main document is "Italics", if you want to convert the data "123456" to the barcode printing, the steps are as follows:

- Sets the data "123456" font type to a different font from the main document. Such as: Arial.



- Open the Preference.

If the document is open, you can set it in the document: file-print-preferences.



- [illegible]

② Set the "Font Name" and the "Barcode Option".

Barcode Setting

Font

Font Name: 01

Barcode Options

Symbology: Code39

Width: Auto(3) HRI Position: Below Bars

Height: Auto(162) HRI Font: Auto

Orentation: 0

Symbology Options

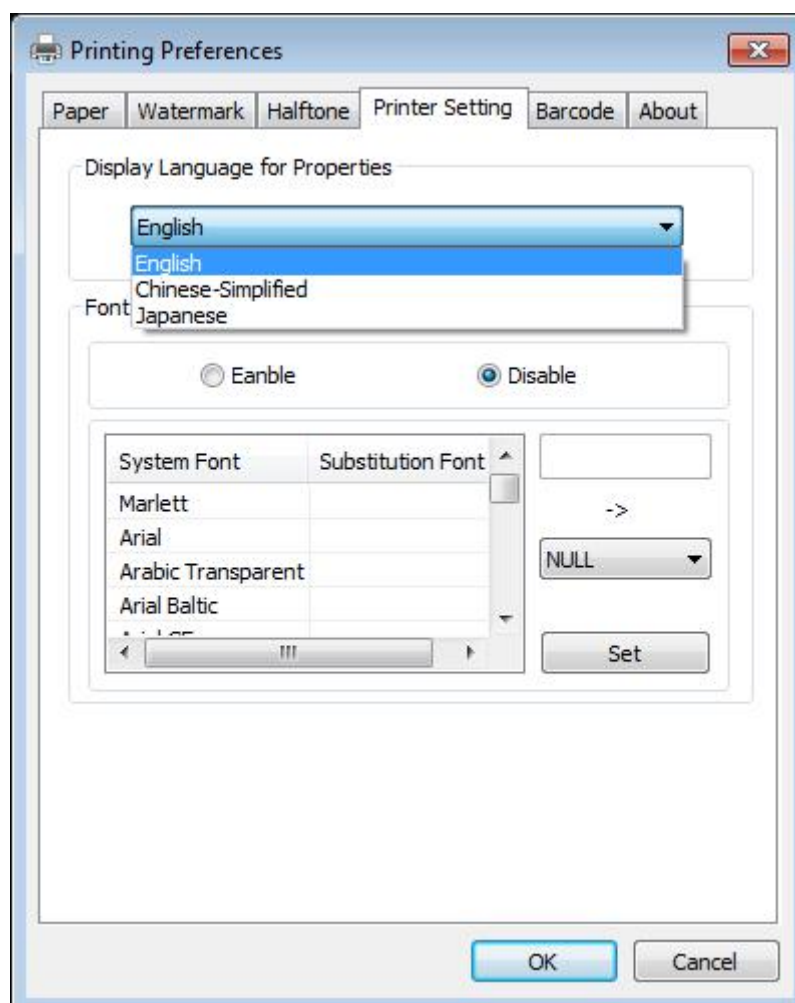
Model: Auto Cols: Auto(0)

Error Correction: Auto Rows: Auto(0)

OK Cancel

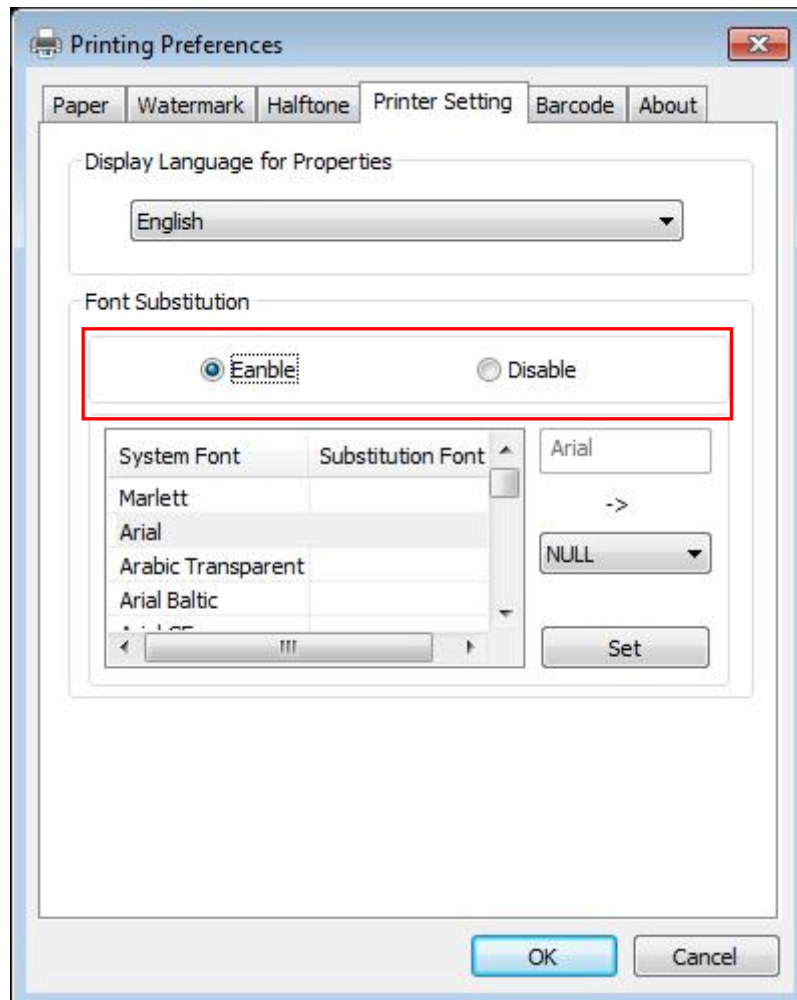
[illegible]

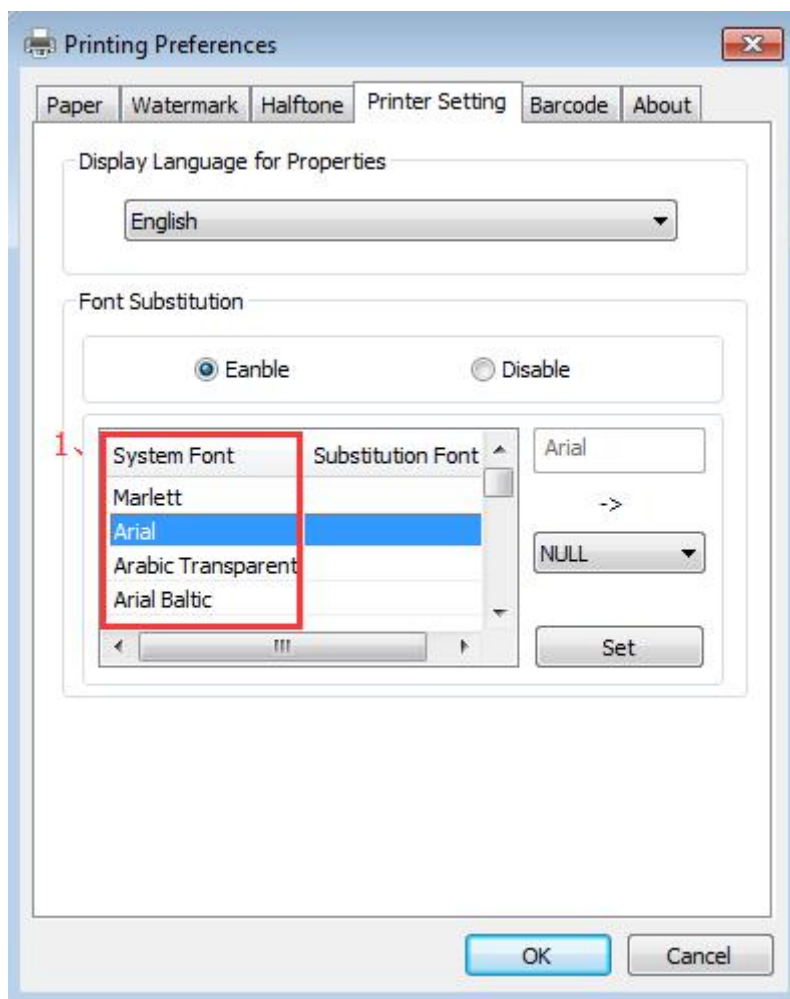
- ③ Click the "Printer Setting".
- Choose the "Display Language for Properties"

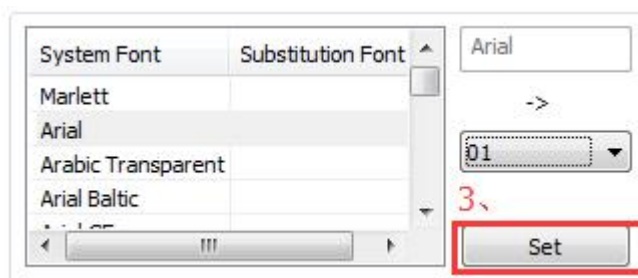
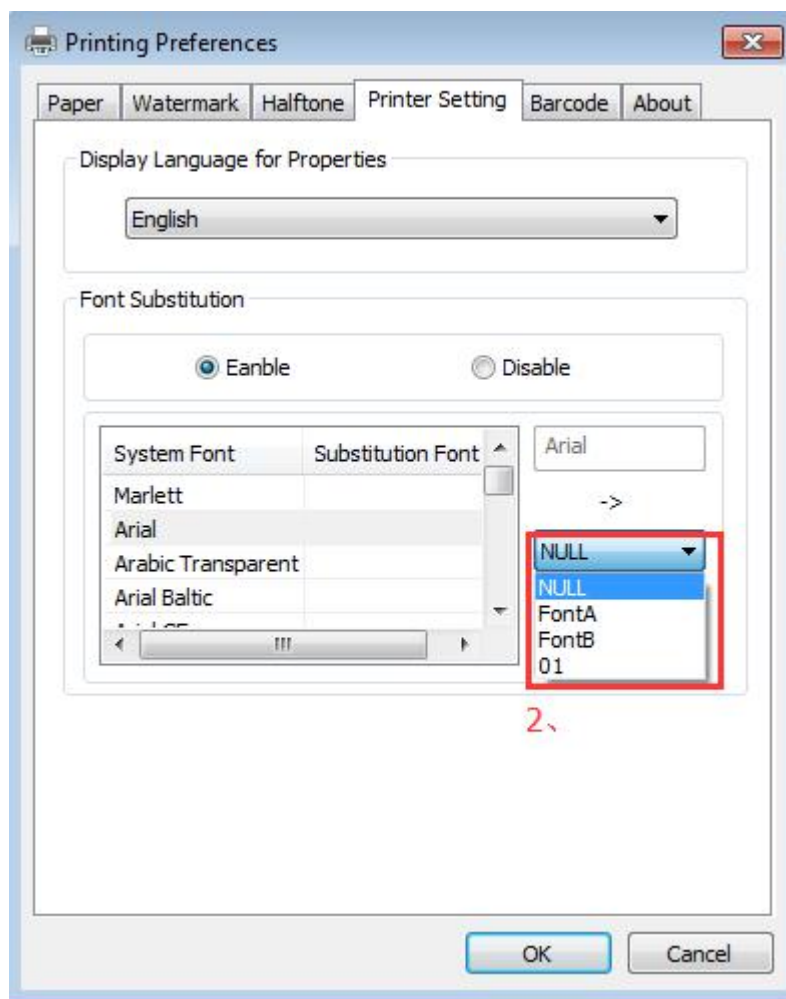


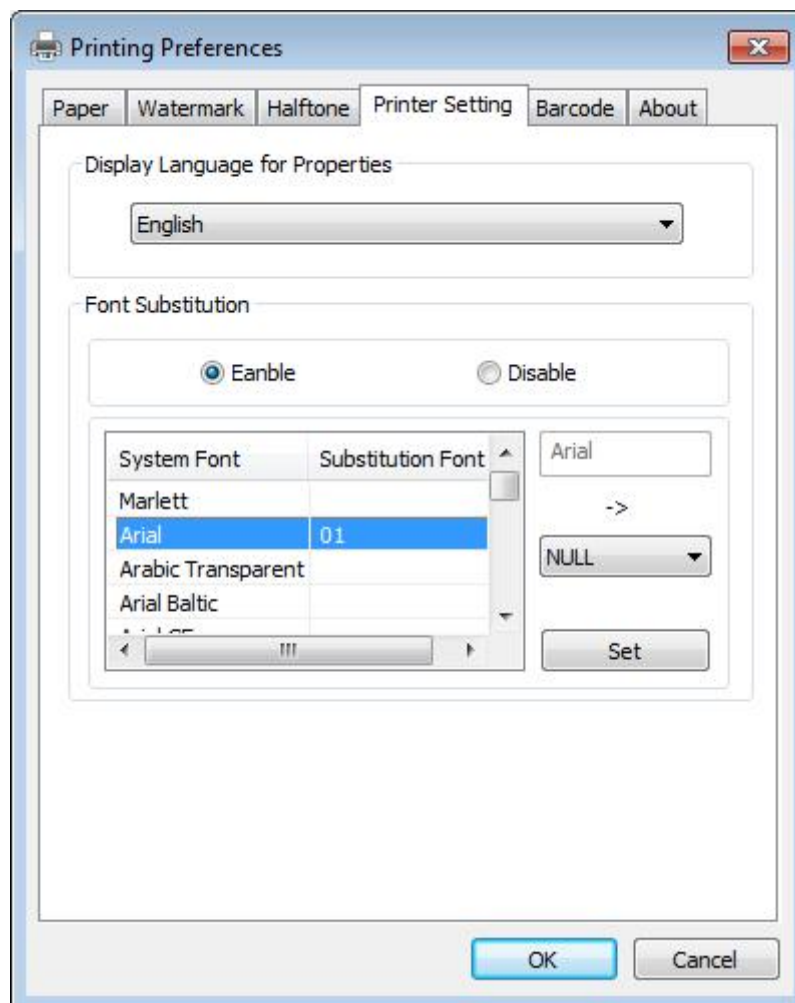
- Turn on the "Font Substitution", select the system text need to be replaced (for example, Arial), and then select the font you want to replace (for example, 01) and click Settings, and the replacement font will display "01".

the steps are as follows:



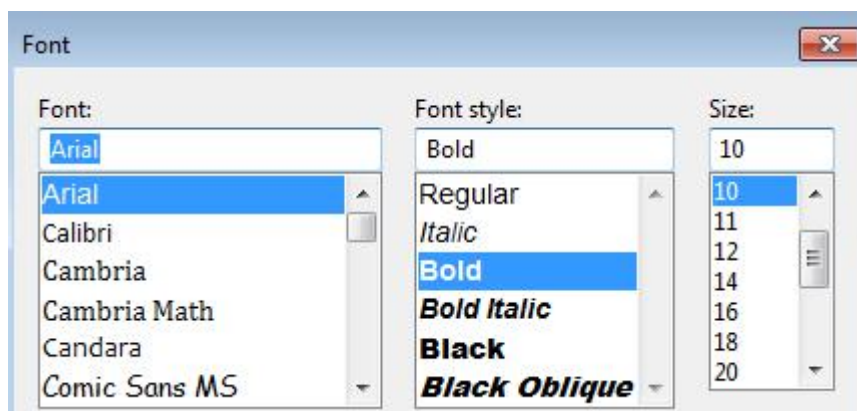




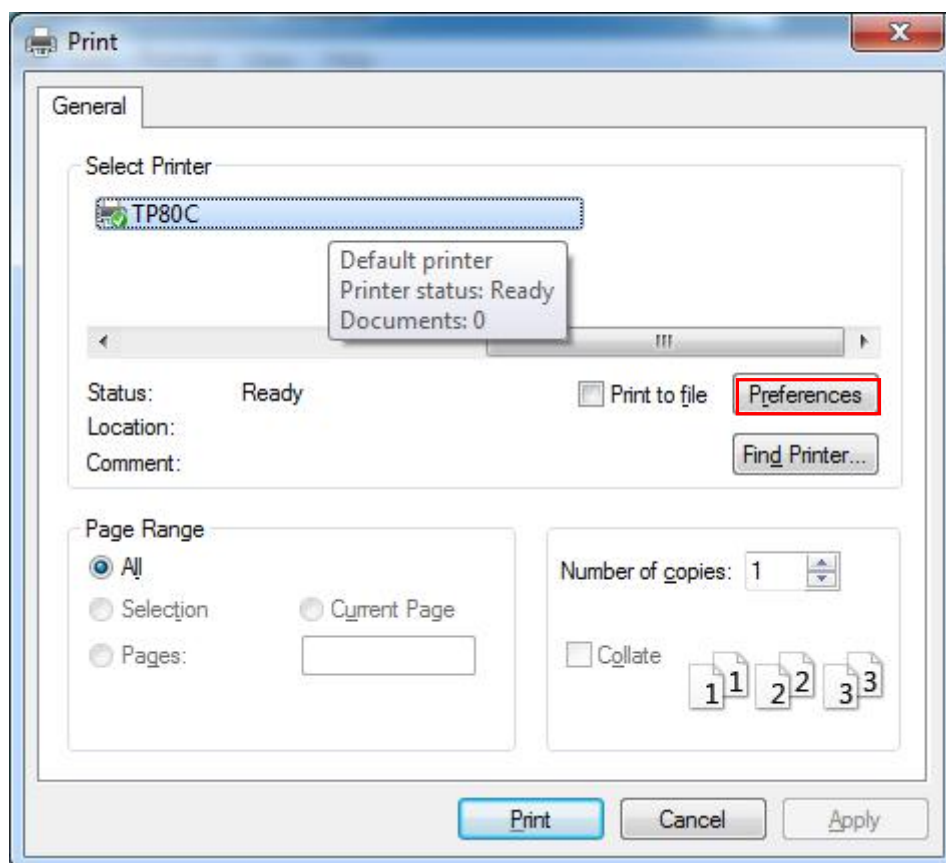


- If you do not have a barcode set, the action is as follows:

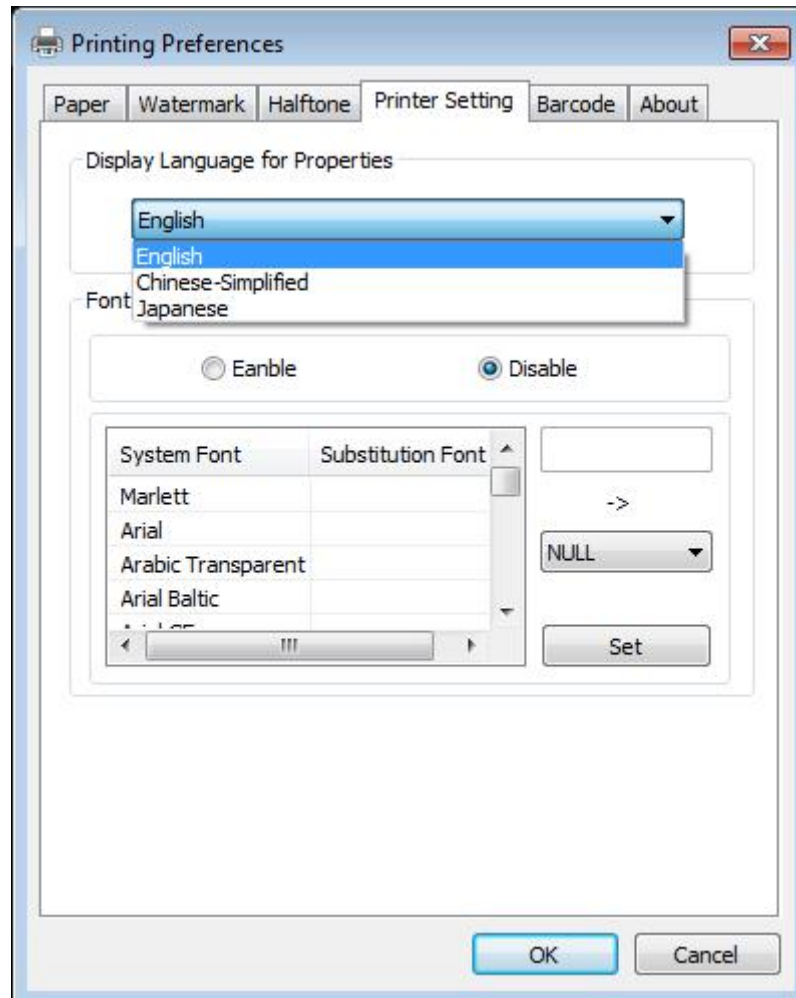
① Suppose you change the size of the data "123456", for example:



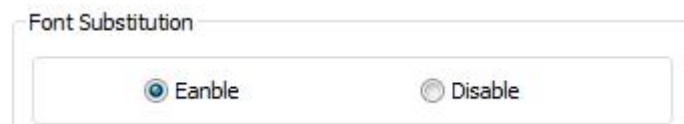
② Set the Printing preferences.



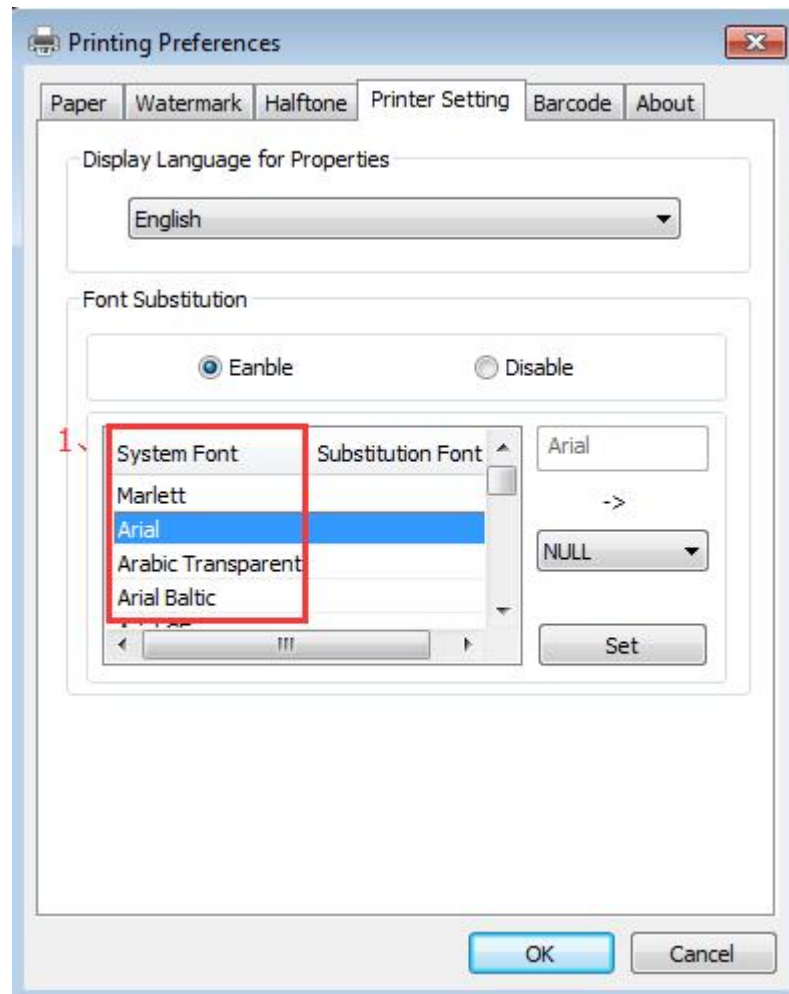
- ③ Click the "Printer Setting".
- Choose the "Display Language for Properties".



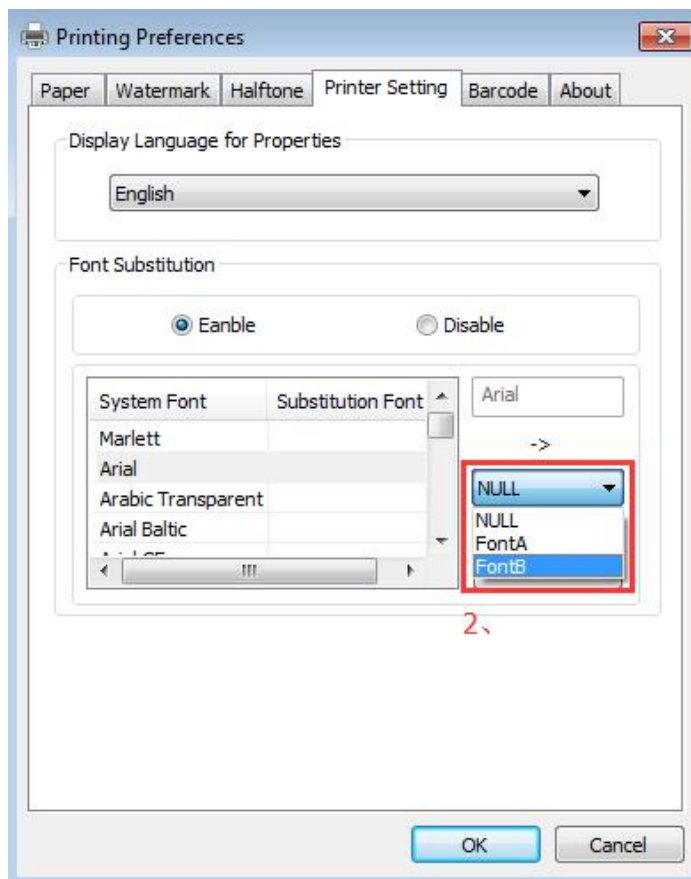
- ④ Turn on the "Font Substitution".



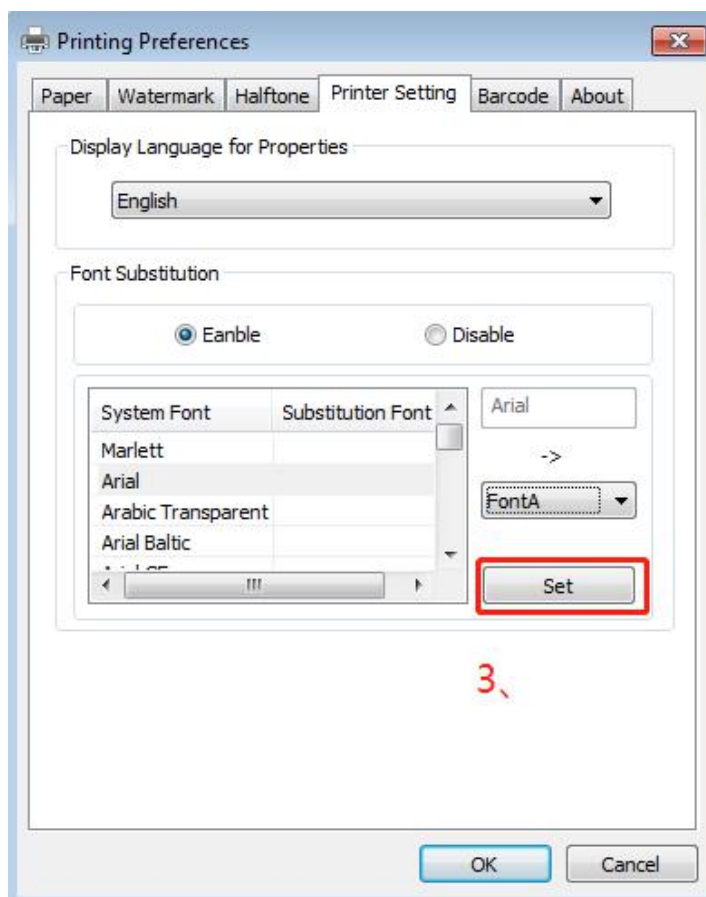
- ⑤ Select the "System Font", for example: Arial.

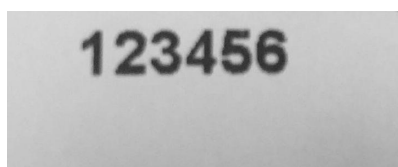
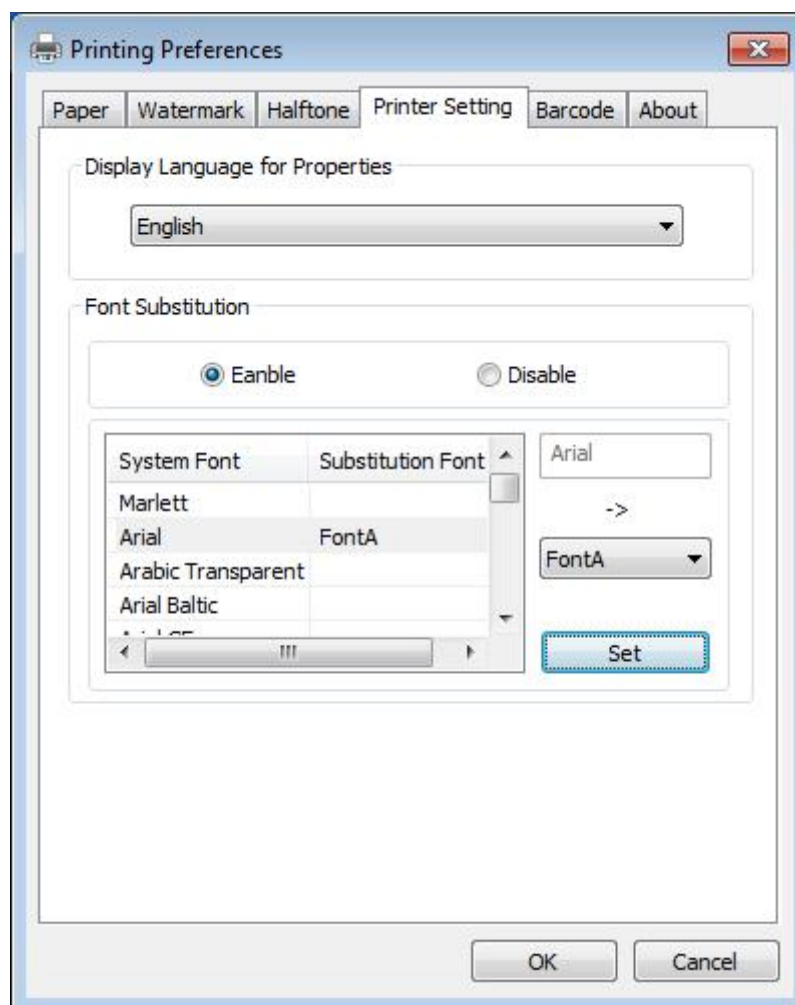


- ⑥ Select the font to that you went to replace.



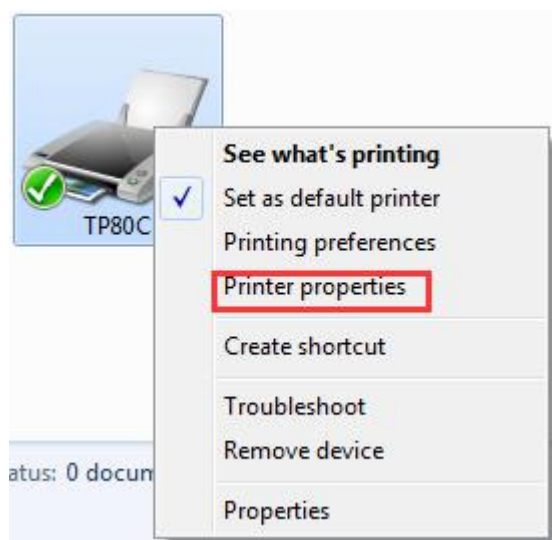
- ⑦ Click "Setting".



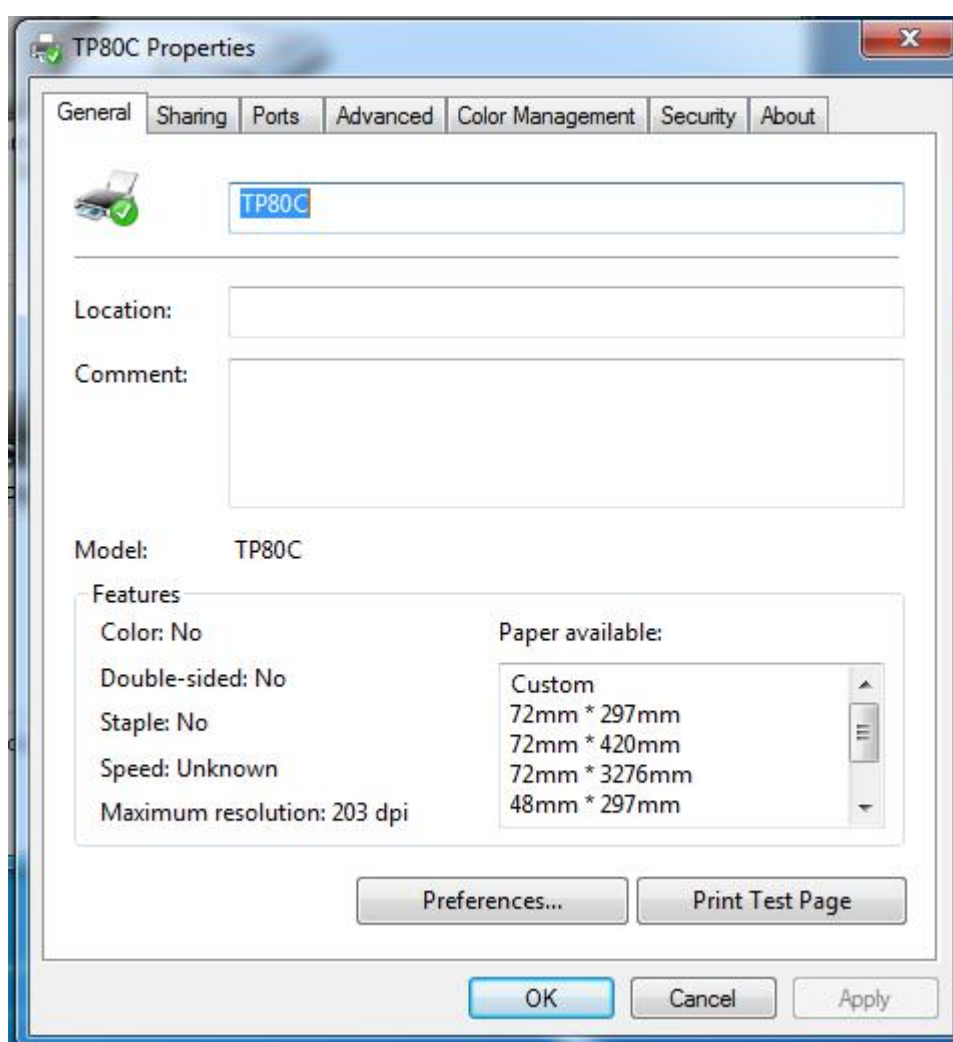


8.5.2 Printer properties

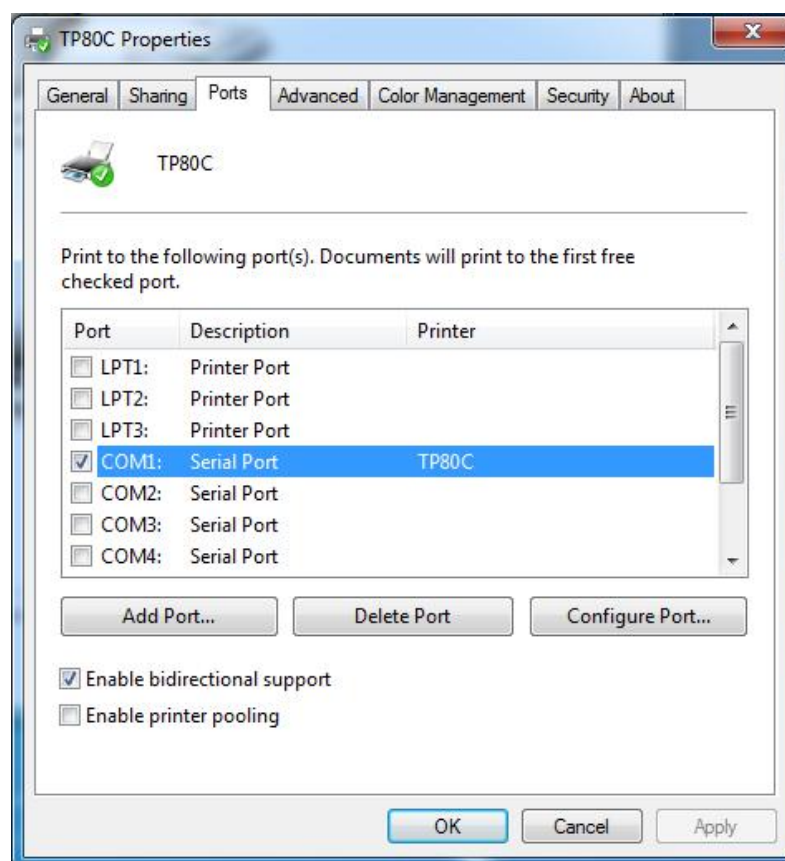
(1) Click "Start"→"Devices and Printers". Right click "TP80C" and choose "Printer properties".



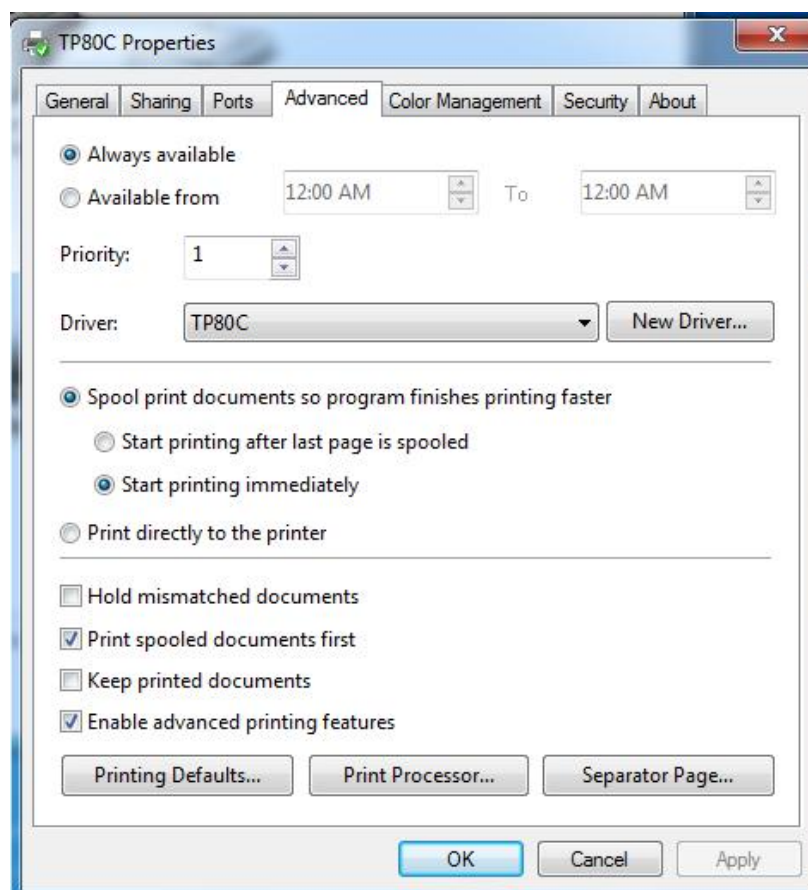
(2) Choose "General", click on "Print Test Page", then it will print the current settings.



(3) Setting the "Ports"

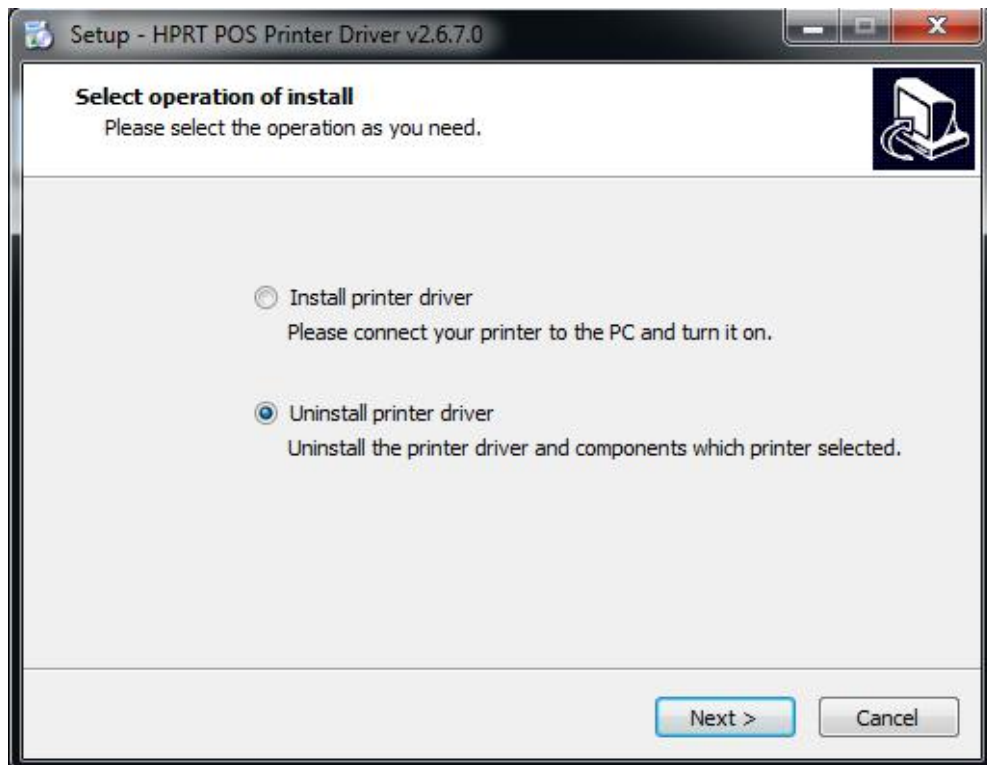


(4) Click "Advanced" to set the printing time.

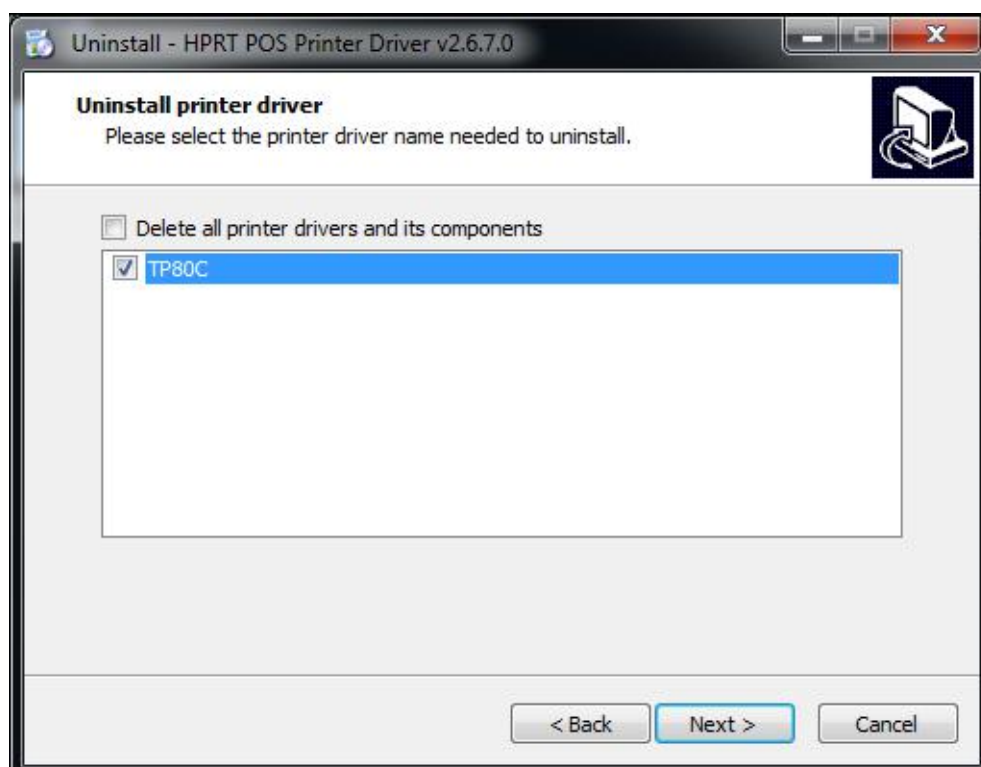


8.6 Uninstall Windows Driver

- (1) Double click Windows Driver.
- (2) Choose "Uninstall printer driver", then click "Next".



- (3) Choose "TP80C", then click "Next".



9 UTILITY TOOL FOR POS INSTRUCTION

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

9.1 Utility Tool Installation

The following screens take Win 7 for example.

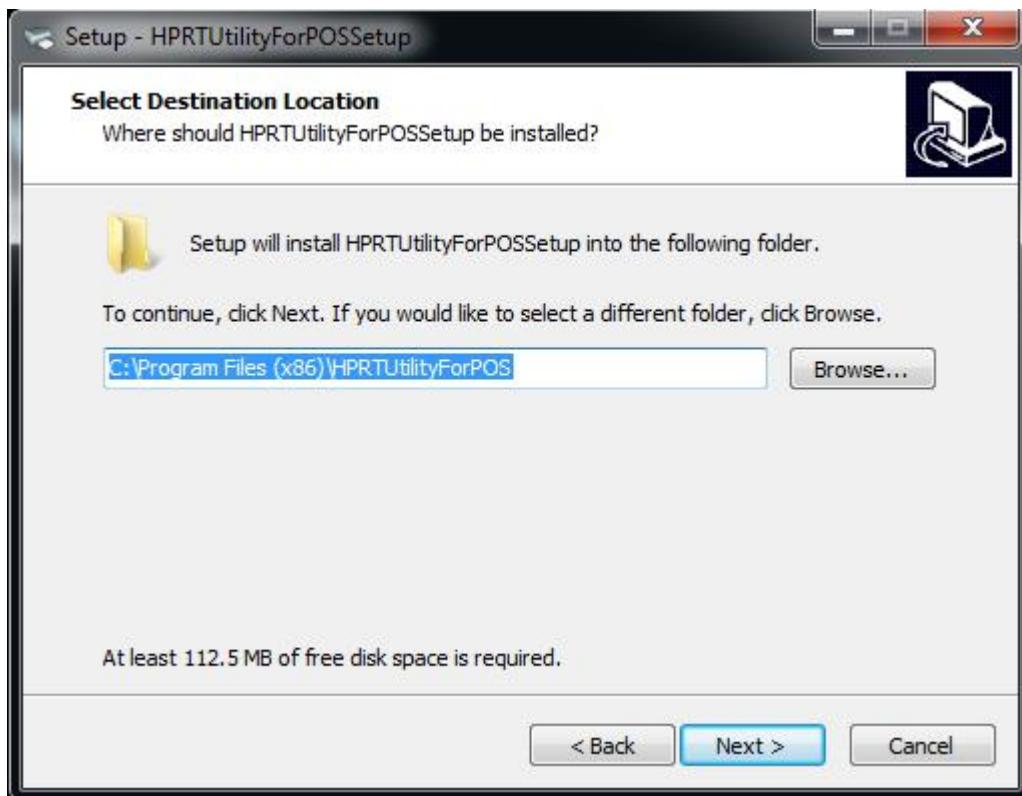
- 1) Open the installation package.
- 2) Choose “English” and click “OK”.



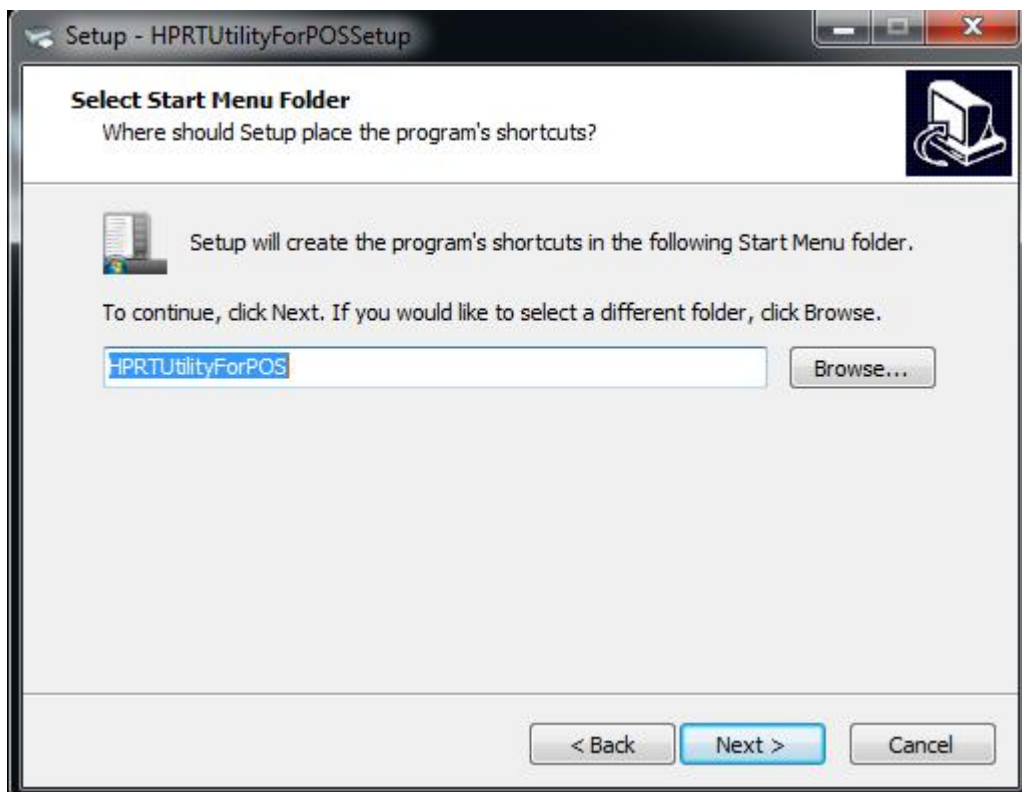
- 3) Choose “I accept the agreement”, then click “Next”.



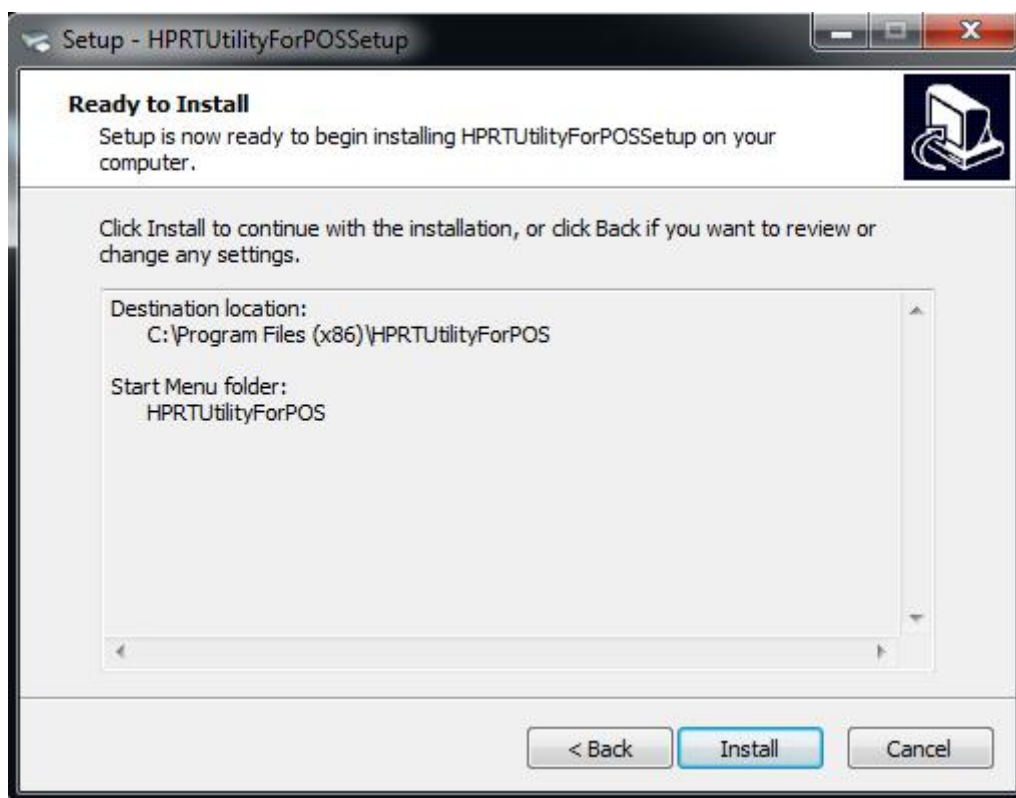
4) Click "Next".



5) Select start menu folder. Click "Next".



6) Click "Install".



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



9.2 Using Utility Tool

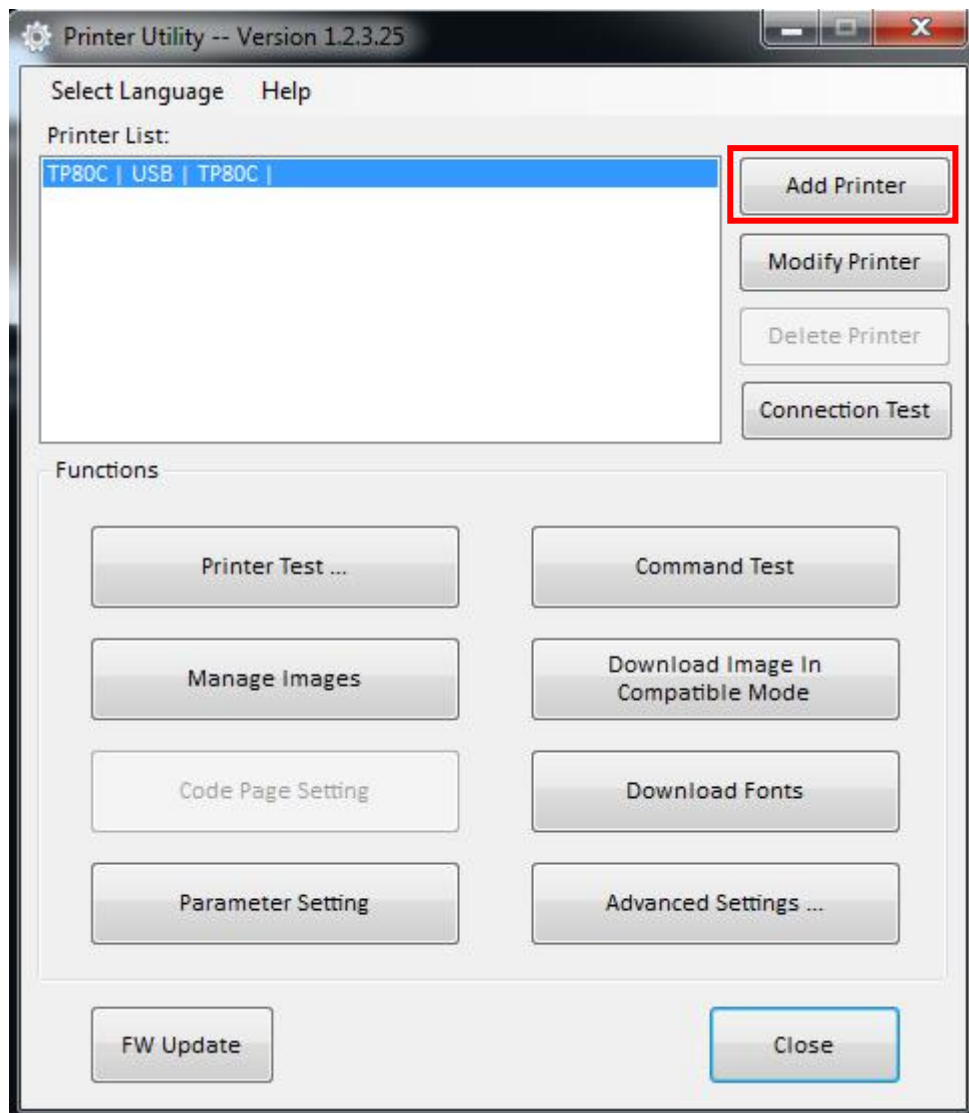


Warning: In different operating system, screen has a slight difference. Please operate it according to the tips. Take TP80C (Windows 7) for example.

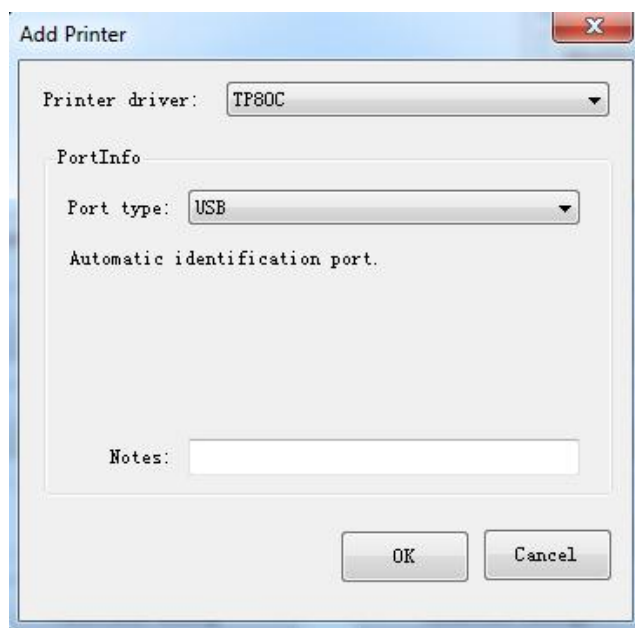
9.2.1 Add/Modify/Delete/Connect Printer

9.2.1.1 Add printer

- 1) Click "Add Printer".

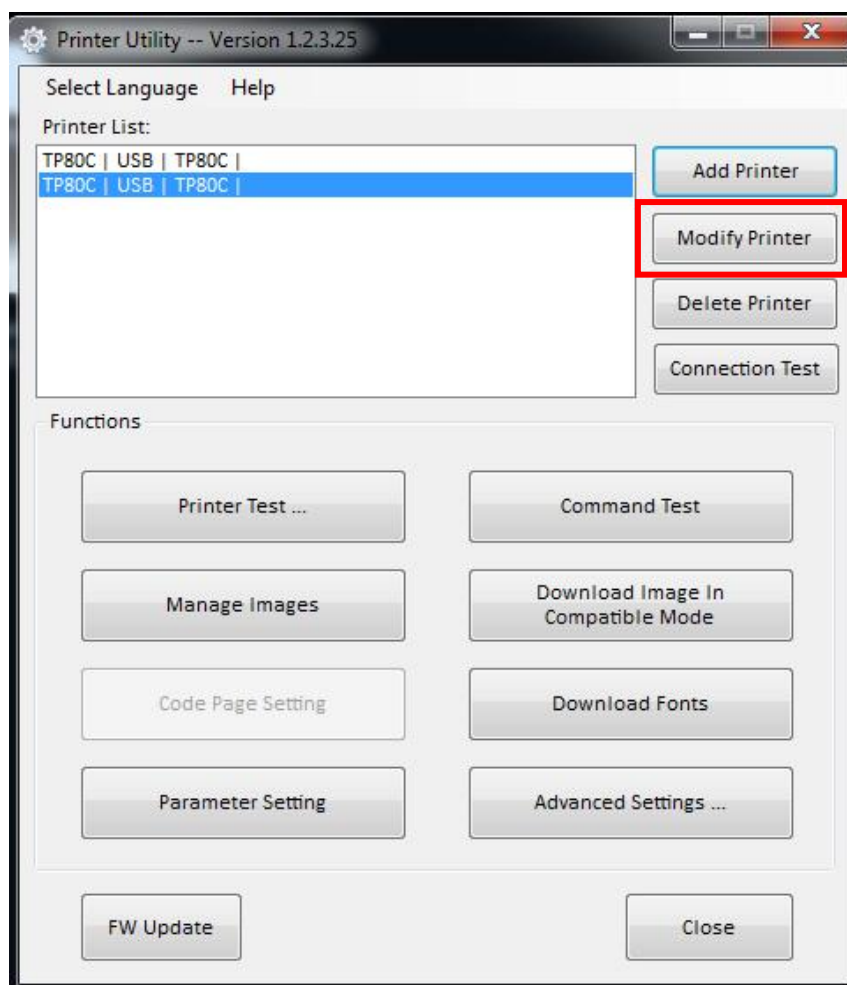


2) Choose the appropriate printer type and port. Then click “OK”. (Take TP80C for example.)

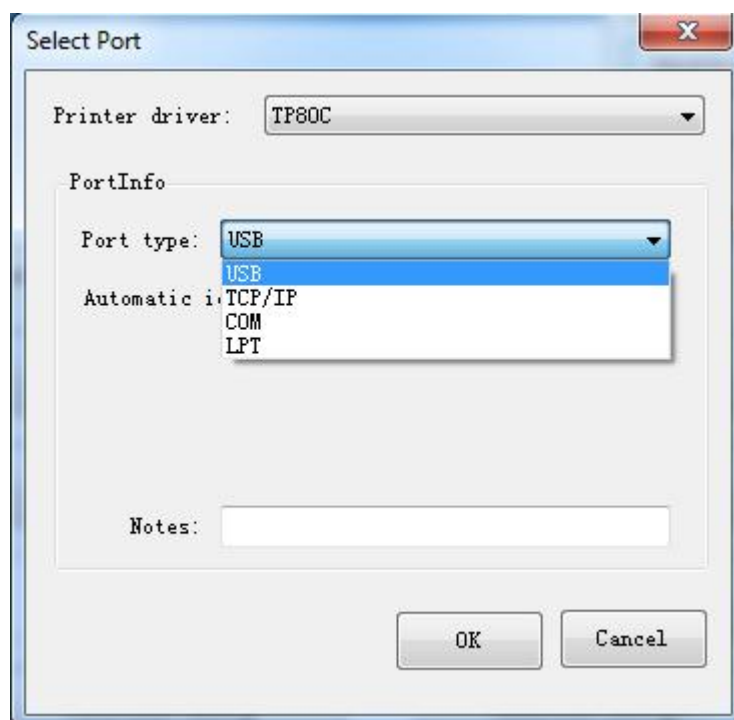


9.2.1.2 Modify printer

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



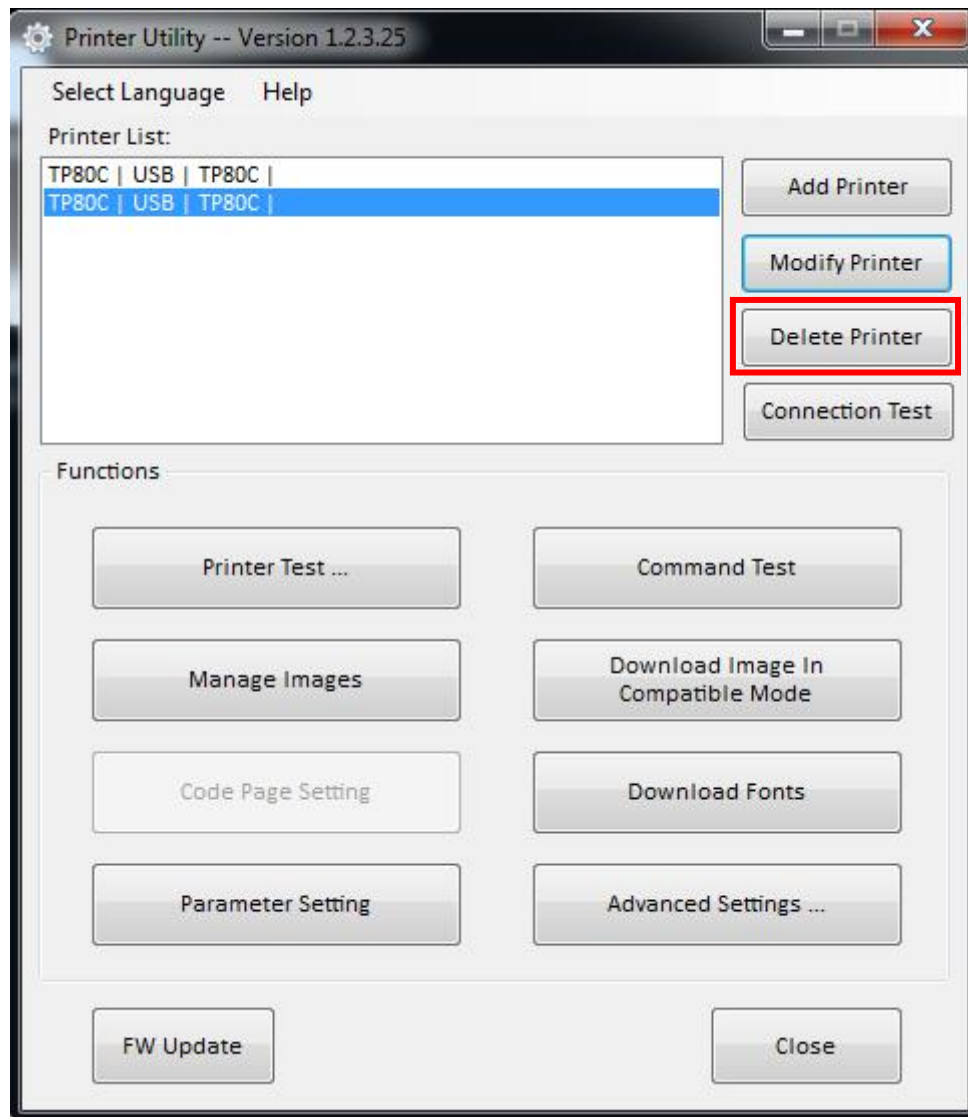
2) Choose the new printer and new port. Then click "OK".



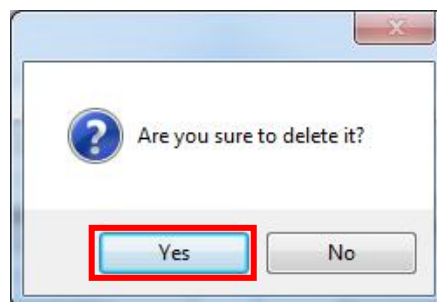
3) The new printer is added successfully.

9.2.1.3 Delete printer

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

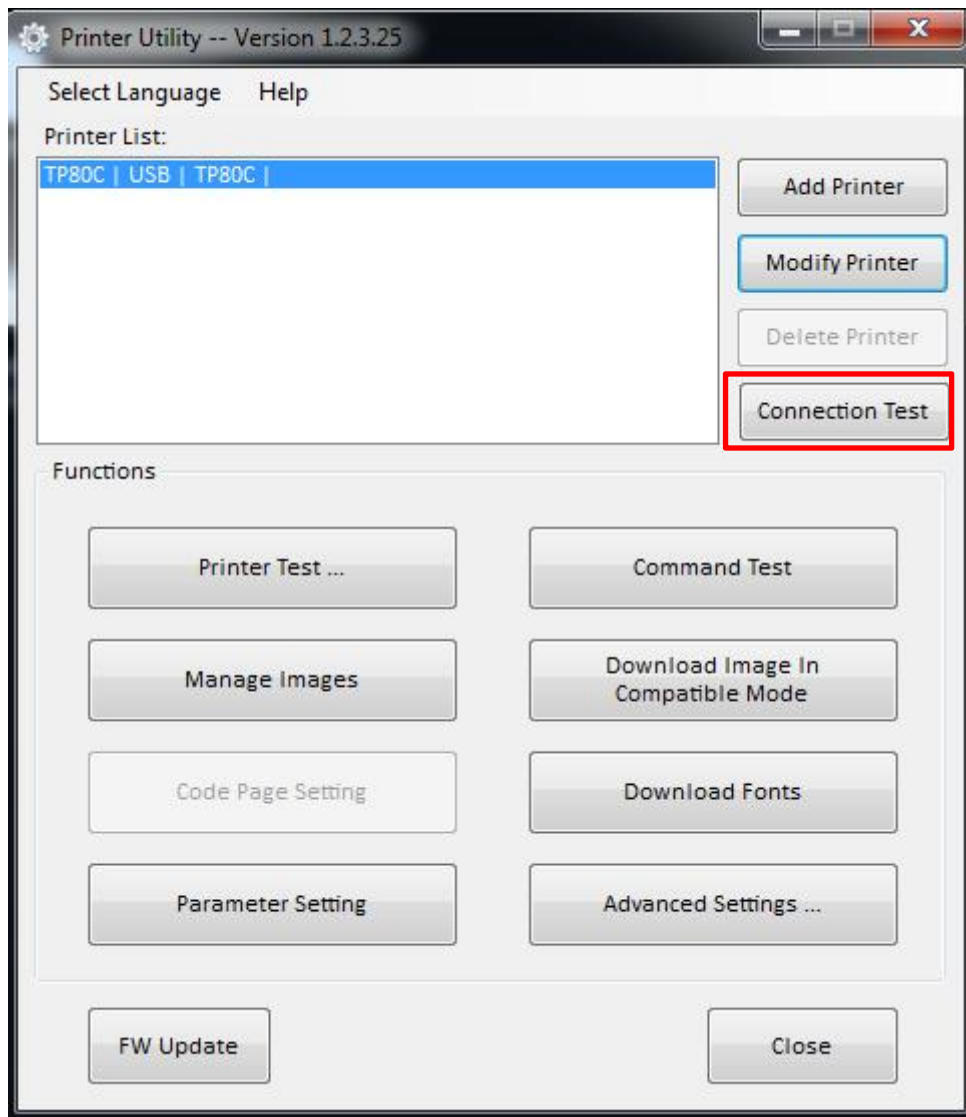


- 2) Click “Yes”, then the printer is deleted.



9.2.1.4 Connection Test

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.



Notes:

- 1) Make sure printer is connected with computer and power on.***
- 2) Make sure printer is loaded with paper.***
- 3) Before using the following function, carry out the "Connection Test" first.***

9.2.2 Functions

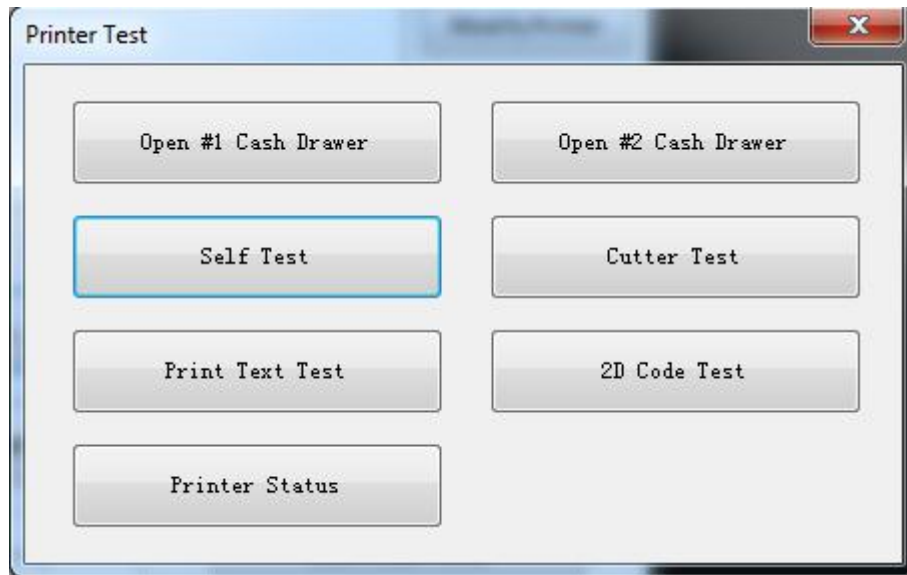
Printer Test contains the following items:

- Printer Test
- Command Test
- Manage Images
- Download Image in Compatible Mode
- Download Fonts
- Parameter Setting
- Advanced Settings

9.2.2.1 Printer Test

1) Self Test

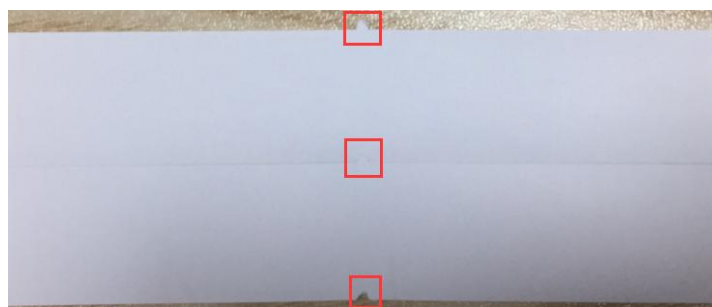
Click “Self Test” to see if the printer will print properly.



2) Cutter Test

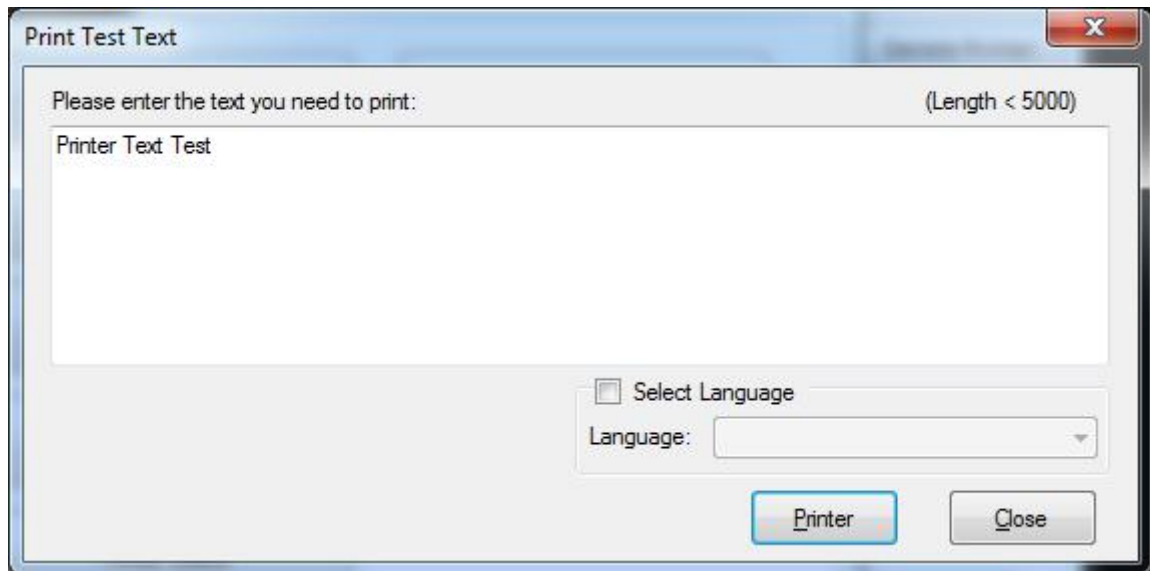
Click the cutter test and the paper will be cut automatically. Cutting method is partial cut (Partial cut: Not all cut off, between the two sheets of paper to leave a connection point).

As shown in the figure:



3) Print Test Text

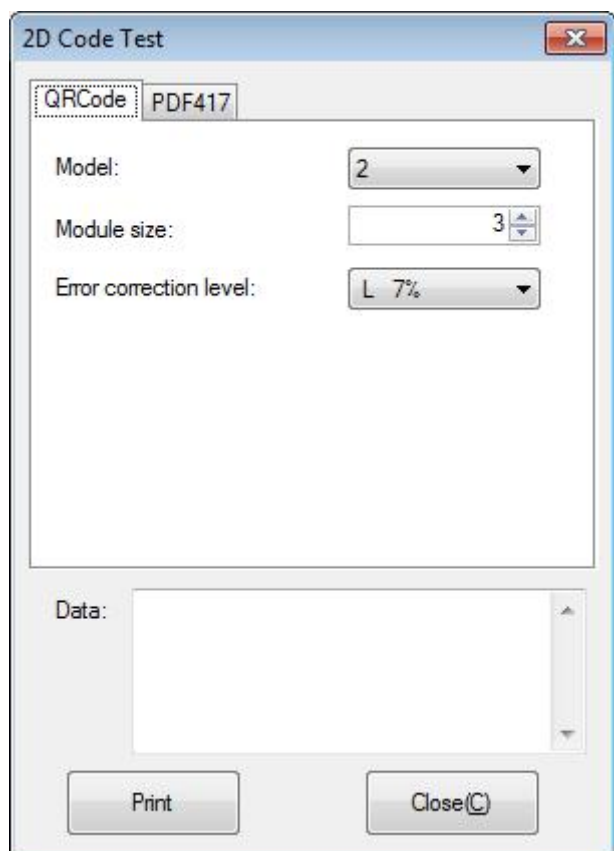
Click "Print Test Text", input the text you want to print. When you click "Print", the printer starts printing text content. Such as: Print Text Test.

**Note:**

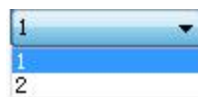
The language option in the lower right corner is checked according to the input text. (For example: The input is Simplified Chinese, the language is checked for Simplified Chinese, the printer prints the input text according to the setting options, and if you check other languages, the printer does not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

4) 2D Code

Click the QRCode mode.



▲ Model: 1~2

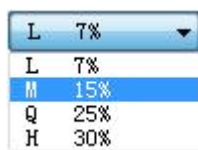


▲ Module size: 1~16

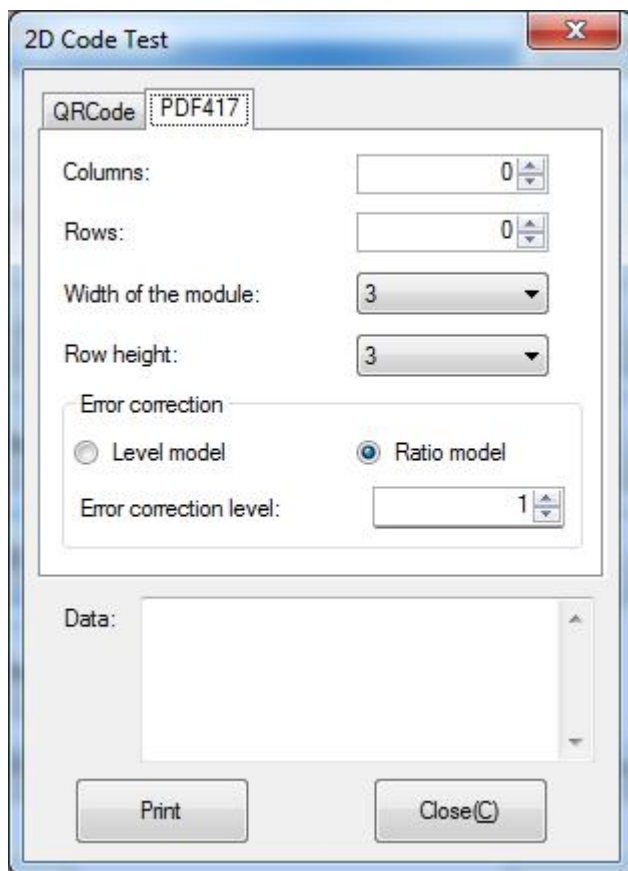
The larger the module value, the larger the printed QR code is, and the smaller the opposite.

▲ Error correction level: 7%~30%

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



Click the PDF417 mode.

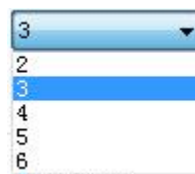


▲ Columns: 0~30

▲ 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

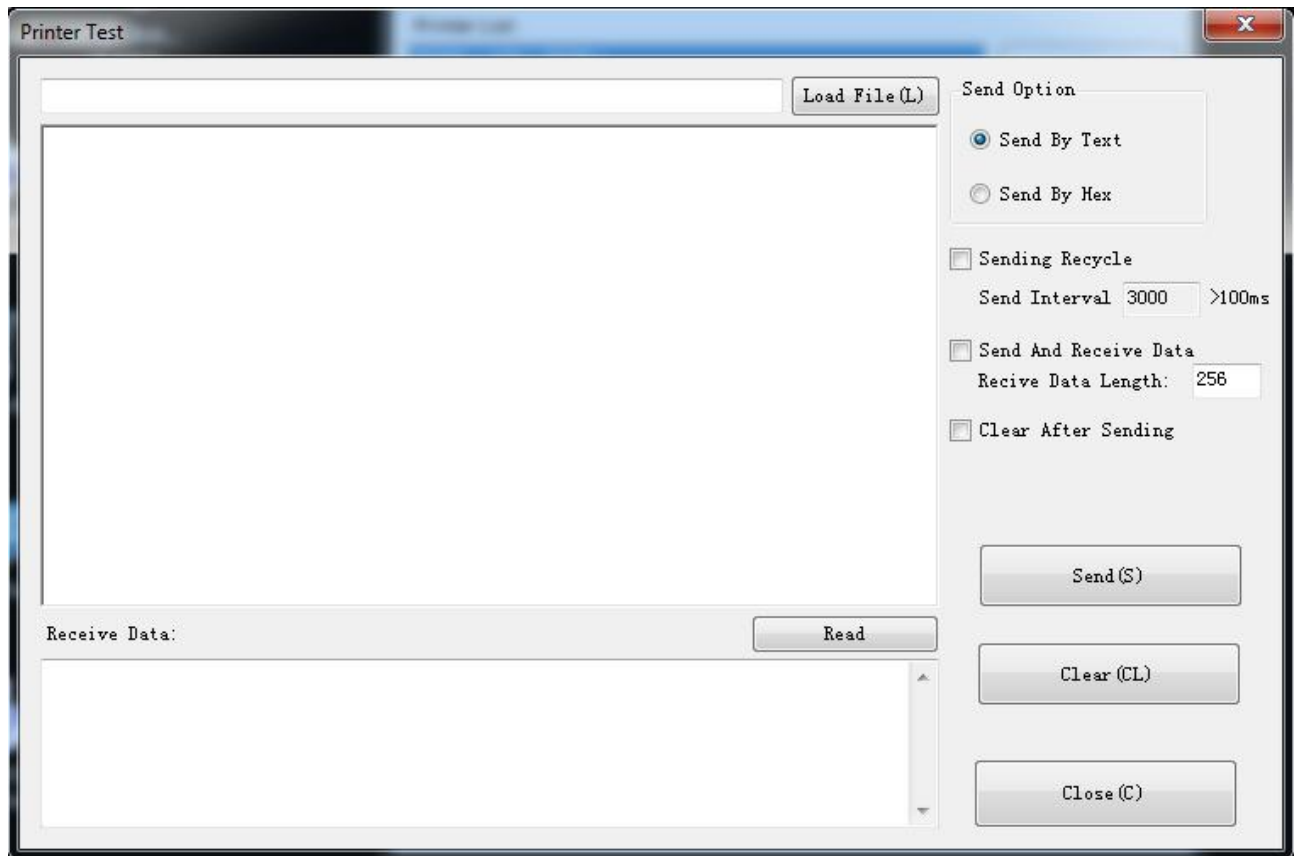
The larger the module value, the longer the printed PDF417 barcode, and the smaller the opposite.

▲ Error connection level

9.2.2.2 Command Test

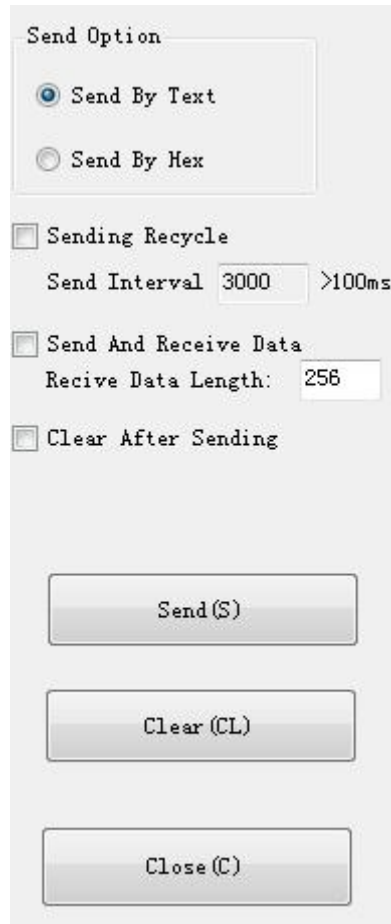
In the command test, you can send command to the printer. Input text or hexadecimal data. Select a file or enter a command in the input box.

- 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 3000 >100ms

☐ Send And Receive Data

Receive Data Length: 256

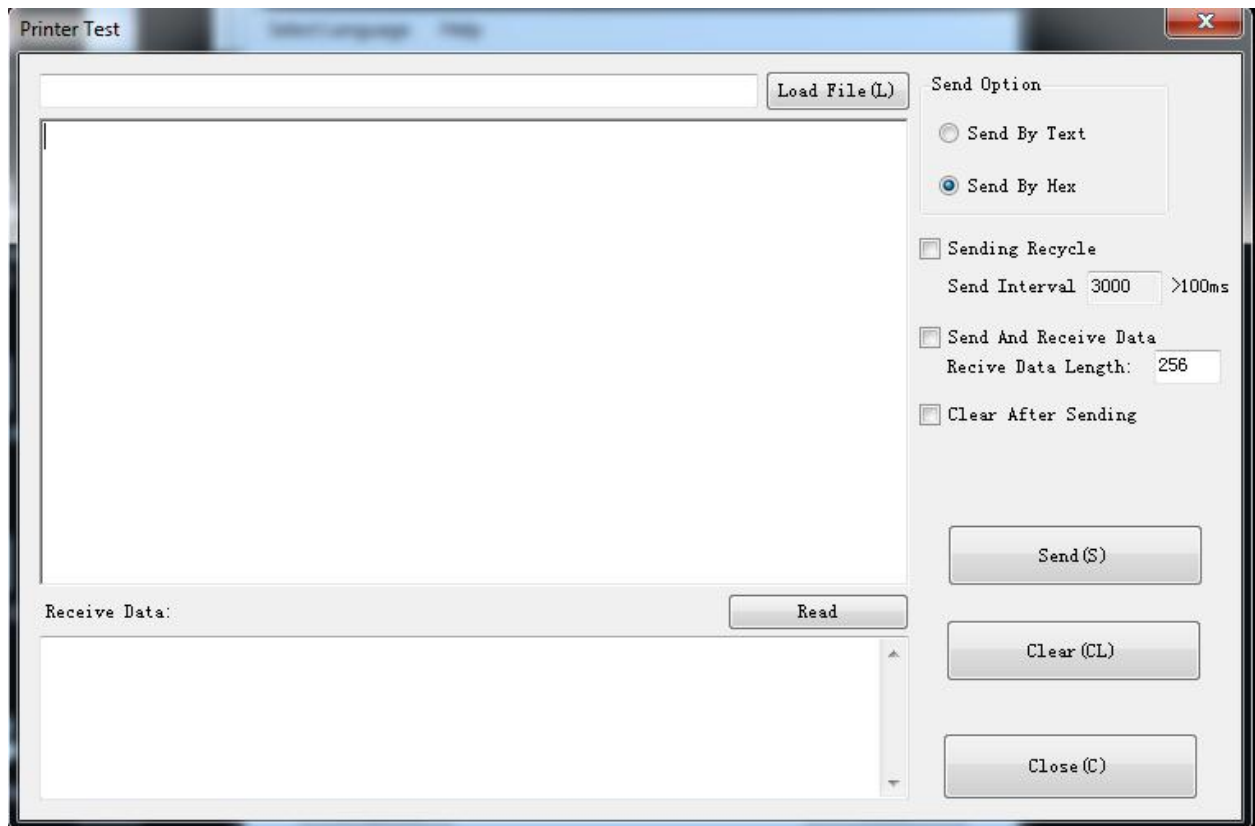
☐ Clear After Sending

Send(S)

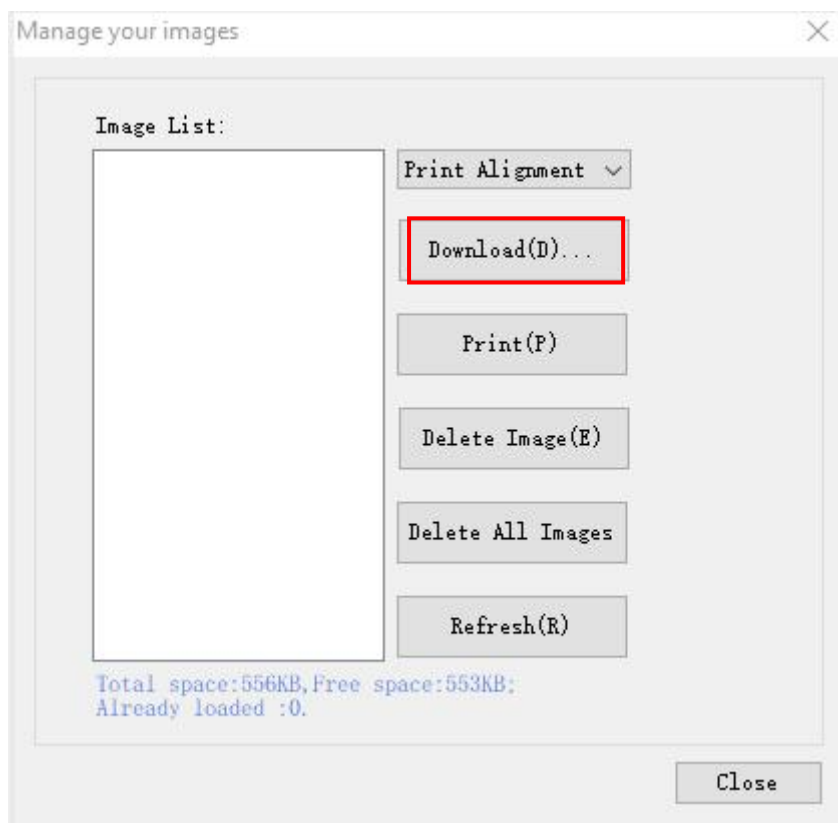
Clear (CL)

Close (C)

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



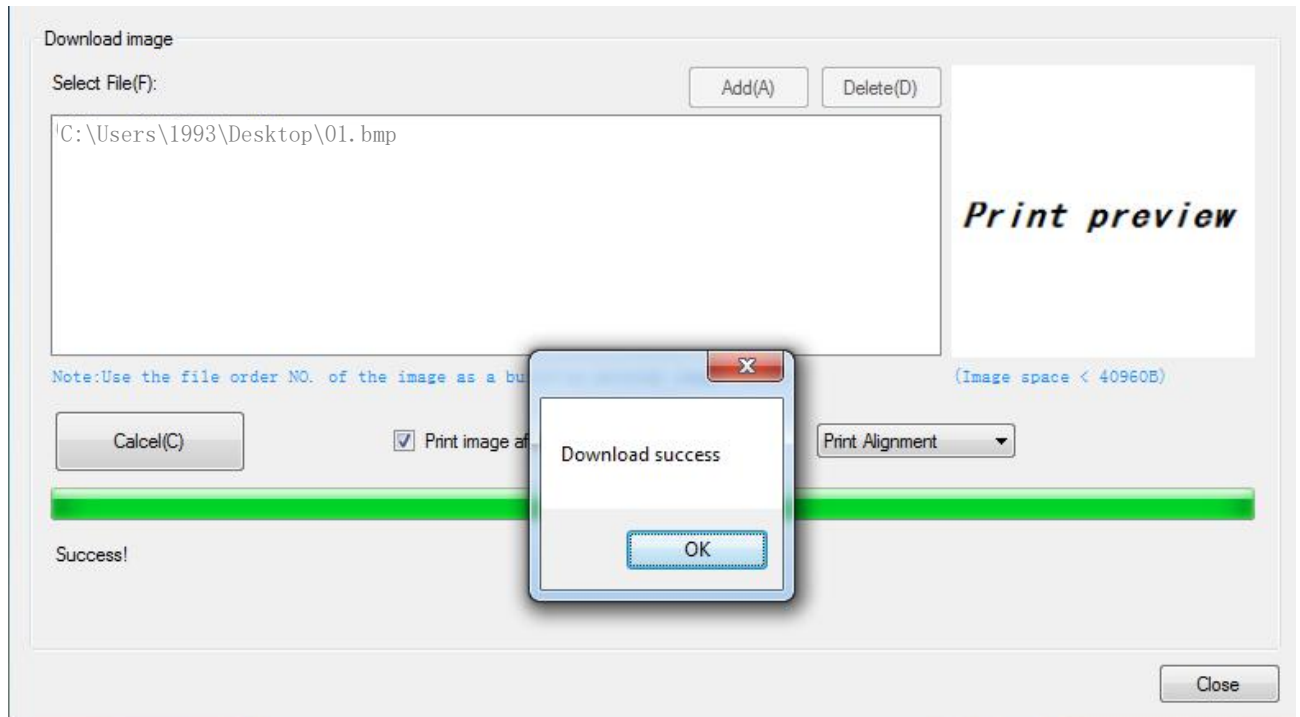
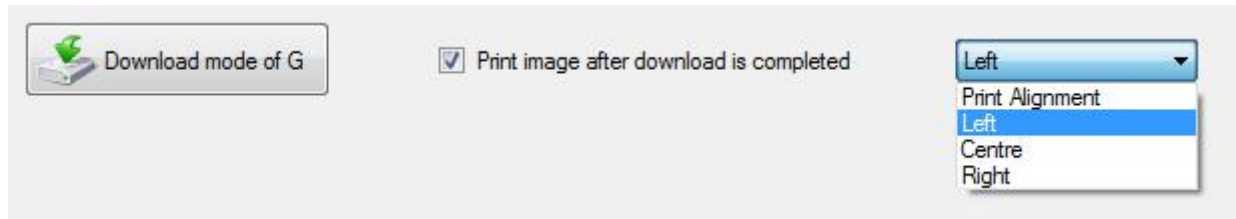
9.2.2.3 Manage Images



1) 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)



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

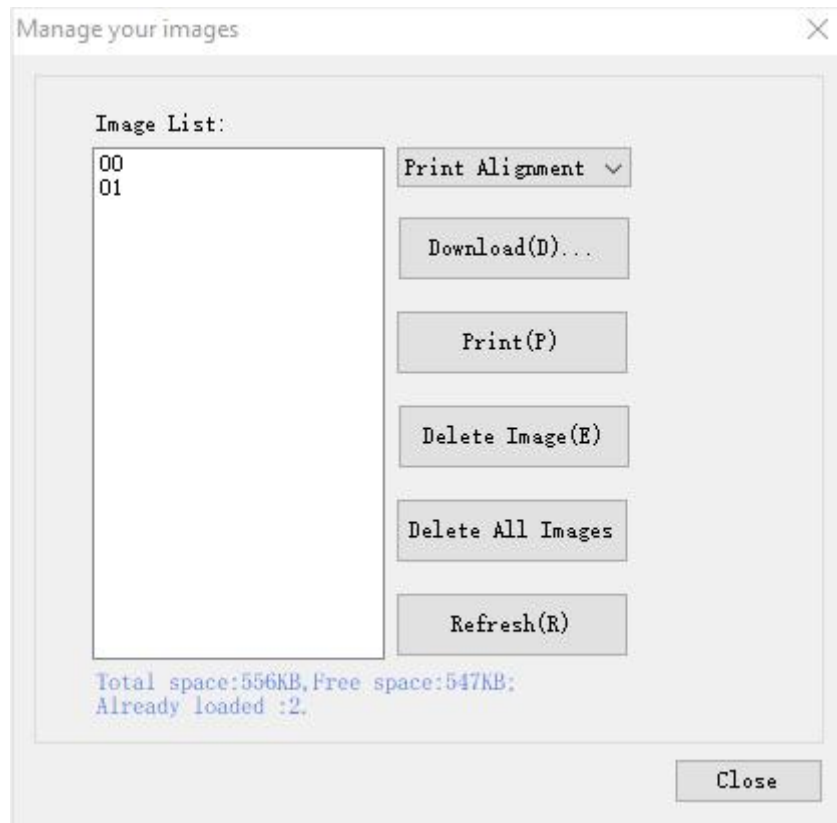


Note: Total memory 556K, each bitmap should be below 64K.

3) Delete Image.



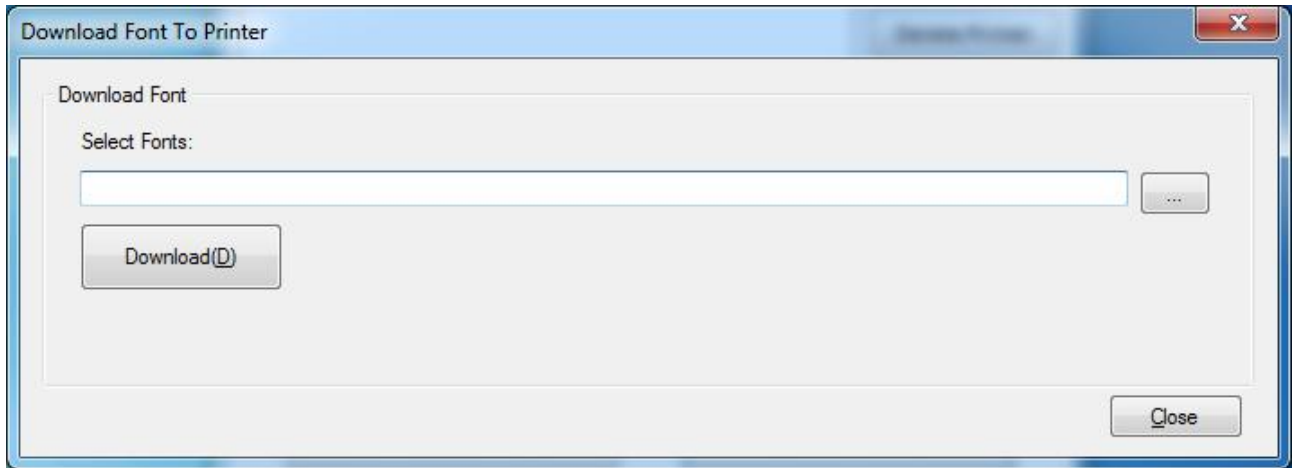
Note: Each time click "Download mode of G", an image list number will be generated.



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.

9.2.2.4 Download Fonts

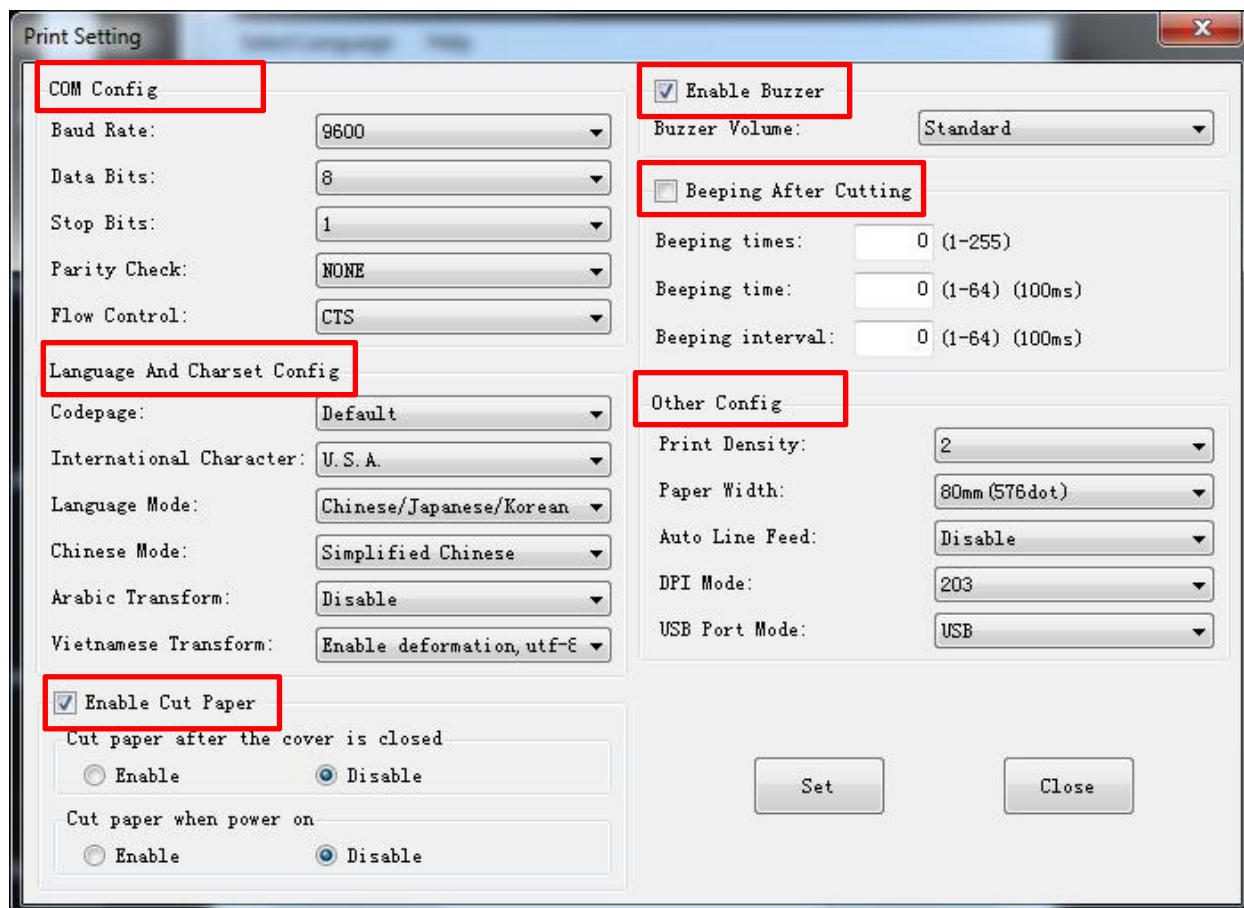
Select the font from the existing file and click "Download".



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

9.2.2.5 Parameter Setting

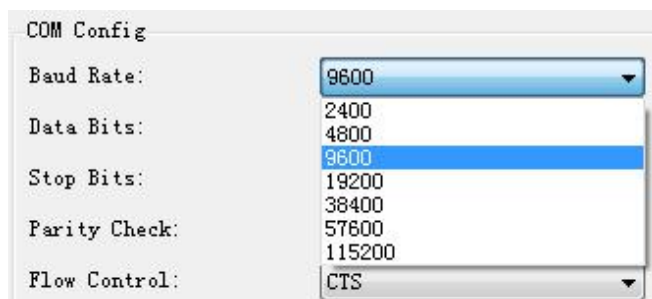
1) Click “Parameter Setting” to set “COM Config” (Only support the printers configured with serial interface), “Language And Charset Config”, “Cut Paper”, “Buzzer” and “Other Config”.



◆ COM Config

Click the items to set “Baud Rate”, “Data Bits”, “Stop Bits”, “Parity Check”, and “Flow Control”.

• Baud Rate



COM Config

Baud Rate: 9600

Data Bits: 2400

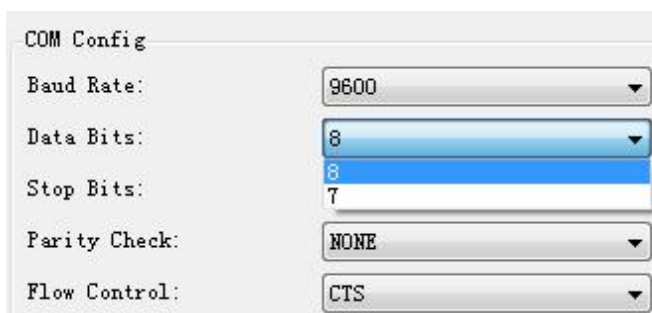
Stop Bits: 4800

Parity Check: 9600

Flow Control: 19200

CTS

• Data Bits



COM Config

Baud Rate: 9600

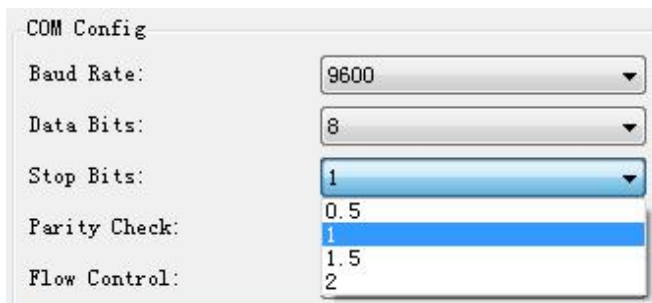
Data Bits: 8

Stop Bits: 8

Parity Check: NONE

Flow Control: CTS

• Stop Bits



COM Config

Baud Rate: 9600

Data Bits: 8

Stop Bits: 1

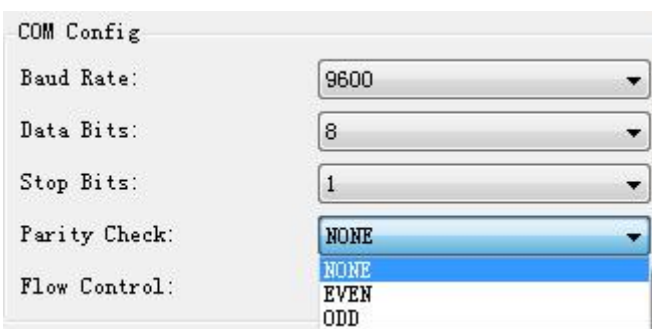
Parity Check: 0.5

Flow Control: 1

1.5

2

• Parity Check



COM Config

Baud Rate: 9600

Data Bits: 8

Stop Bits: 1

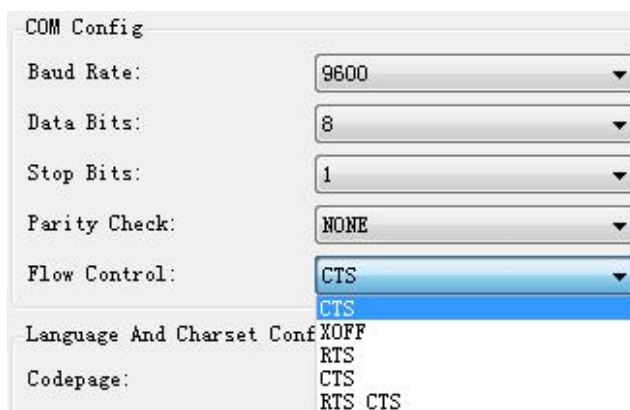
Parity Check: NONE

Flow Control: NONE

EVEN

ODD

- Flow Control



COM Config

Baud Rate: 9600

Data Bits: 8

Stop Bits: 1

Parity Check: NONE

Flow Control: CTS

Language And Charset Config XOFF

Codepage: RTS



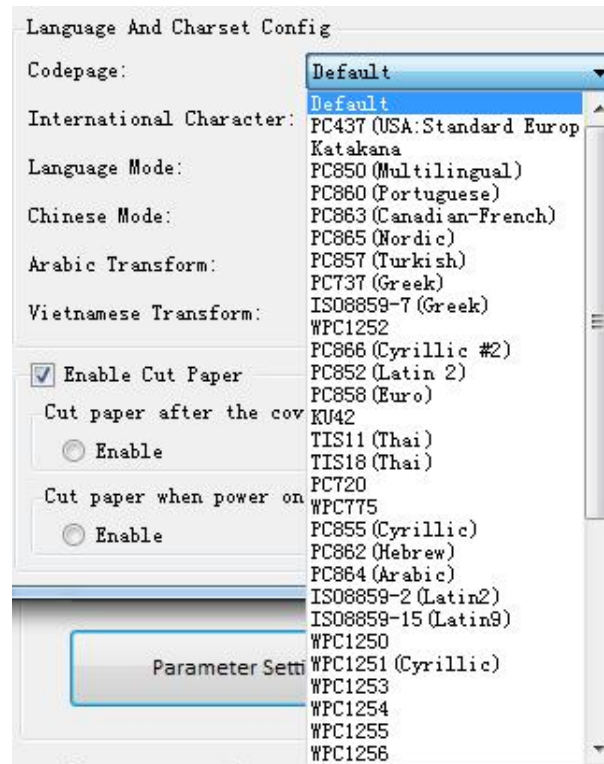
Note:

- 1) "COM Config" setting only supports the printers configured with serial port.
- 2) The value of the serial port parameter can be obtained according to the value of the Self-test page information.

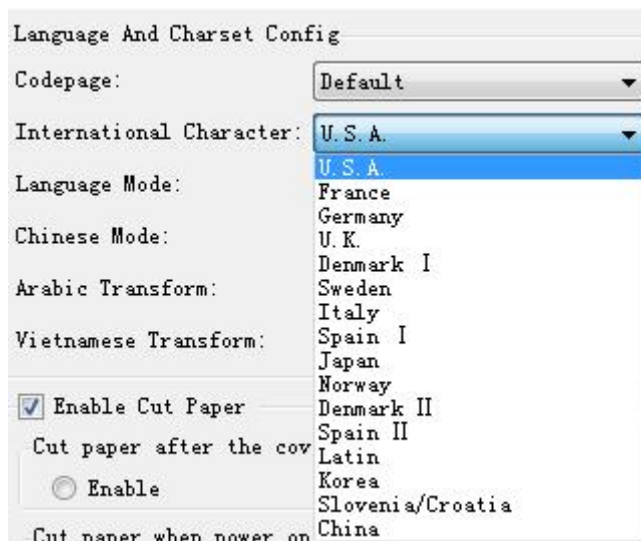
◆ **Language And Charset Config**

Click the items to set "Codepage", "International Character", "Language Mode", "Chinese Mode", "Arabic Transform" and "Vietnamese transform".

- Codepage



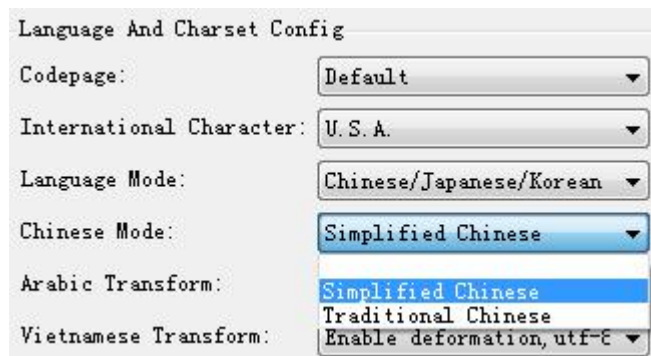
- International Character



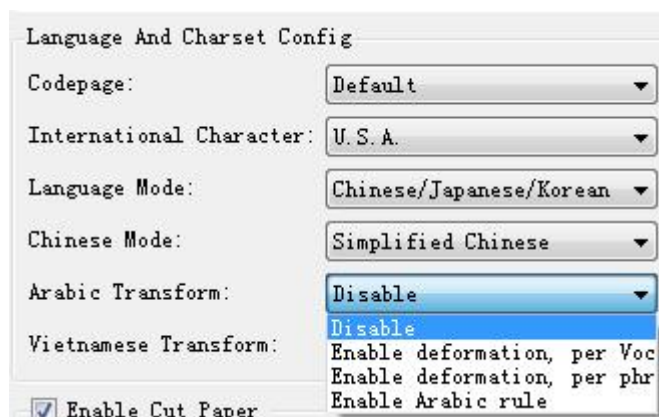
- Language Mode (The default mode is “Chinese/Japanese/Korean”)



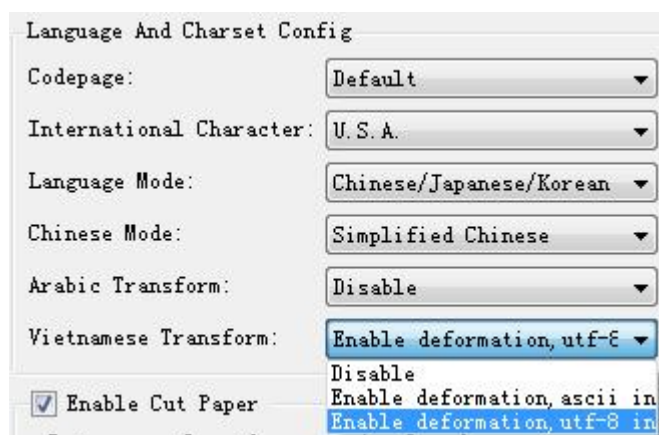
- Chinese Mode



- Arabic Transform

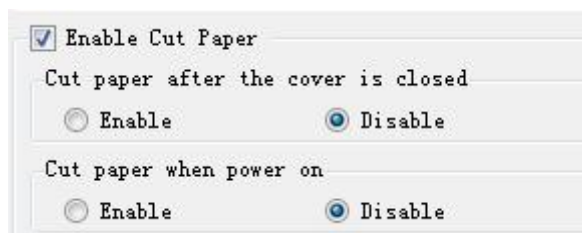


- Vietnamese transform



◆ Cut Paper

Enable or disable “Cut paper after the cover is closed” / “Cut paper when power on”.



Enable “Cut paper after the cover is closed”:

When the printer closes the cover, it will automatically cut the paper.

Disable “Cut paper after the cover is closed”:

The printer does not cut the paper automatically after closing the cover.

Enable “Cut paper when power on”:

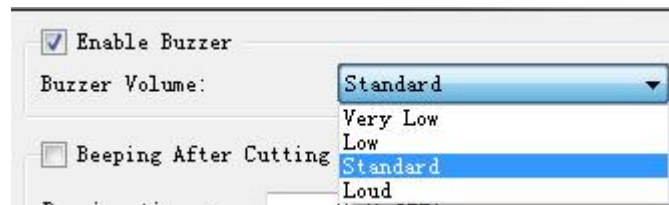
The printer will automatically cut paper when it is powered on.

Disable “Cut paper when power on”:

The printer does not cut paper automatically after it is powered on.

◆ Buzzer

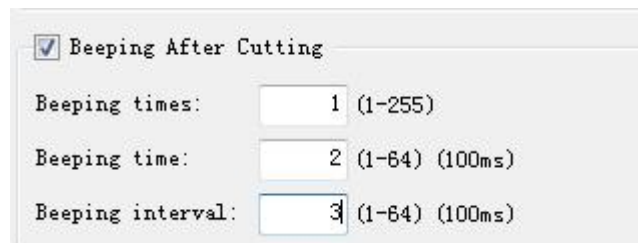
Buzzer Volume: Very Low/Low/Standard/loud



Tick “Beeping after cutting” (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.

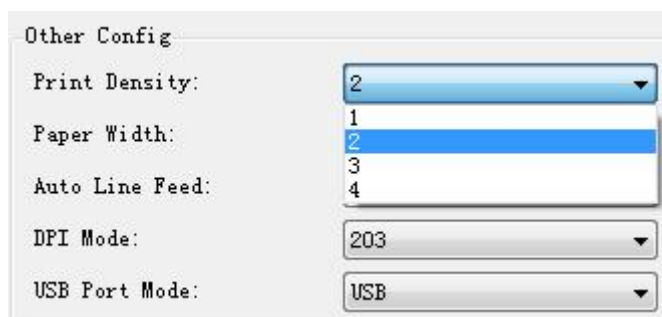


◆ Other Config

Click the items to set “Print Density”, Paper Width”, “Auto Line Feed”, “DPI Mode”, and “USB Port Mode”

- Print Density (default “level 2”)

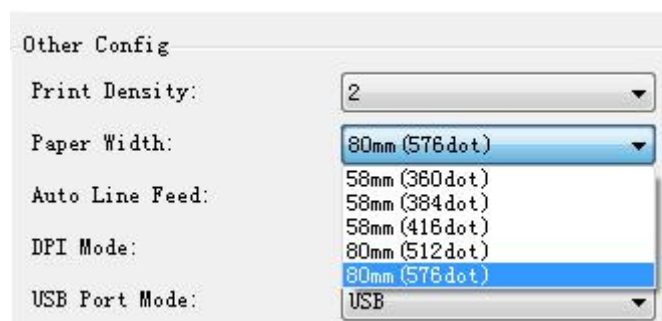
The print density value varies according to the paper material and it can be adjusted to suit your needs.



Other Config

Print Density:	2
Paper Width:	1
Auto Line Feed:	2
DPI Mode:	3
USB Port Mode:	4

- Paper Width Setting



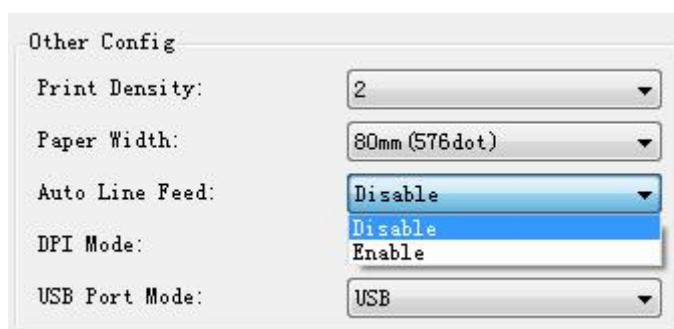
Other Config

Print Density:	2
Paper Width:	80mm (576dot)
Auto Line Feed:	58mm (360dot)
DPI Mode:	58mm (384dot)
USB Port Mode:	58mm (416dot)
	80mm (512dot)
	80mm (576dot)



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

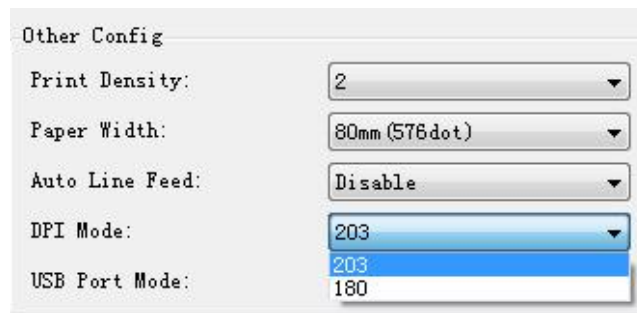
- Auto Line Feed



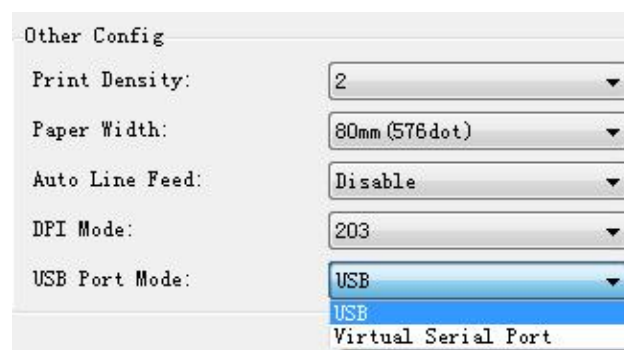
Other Config

Print Density:	2
Paper Width:	80mm (576dot)
Auto Line Feed:	Disable
DPI Mode:	Disable
USB Port Mode:	Enable

- DPI Mode (Default “203DPI”)

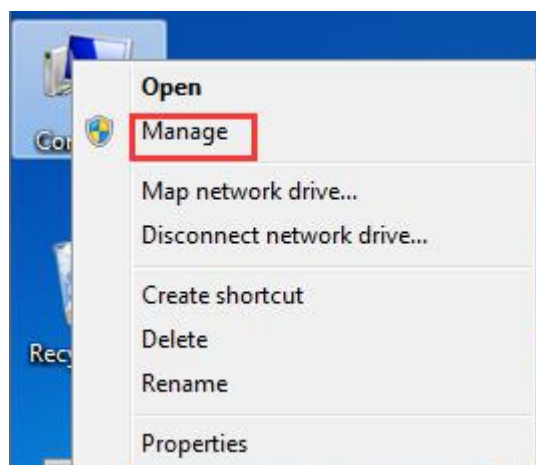


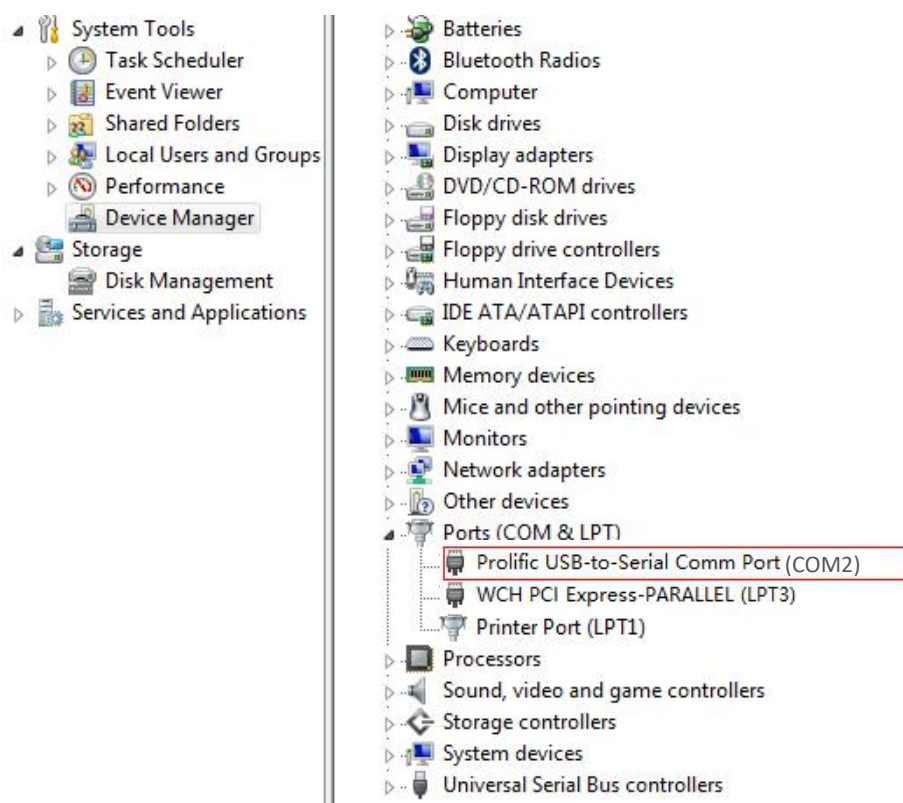
- USB Port Mode



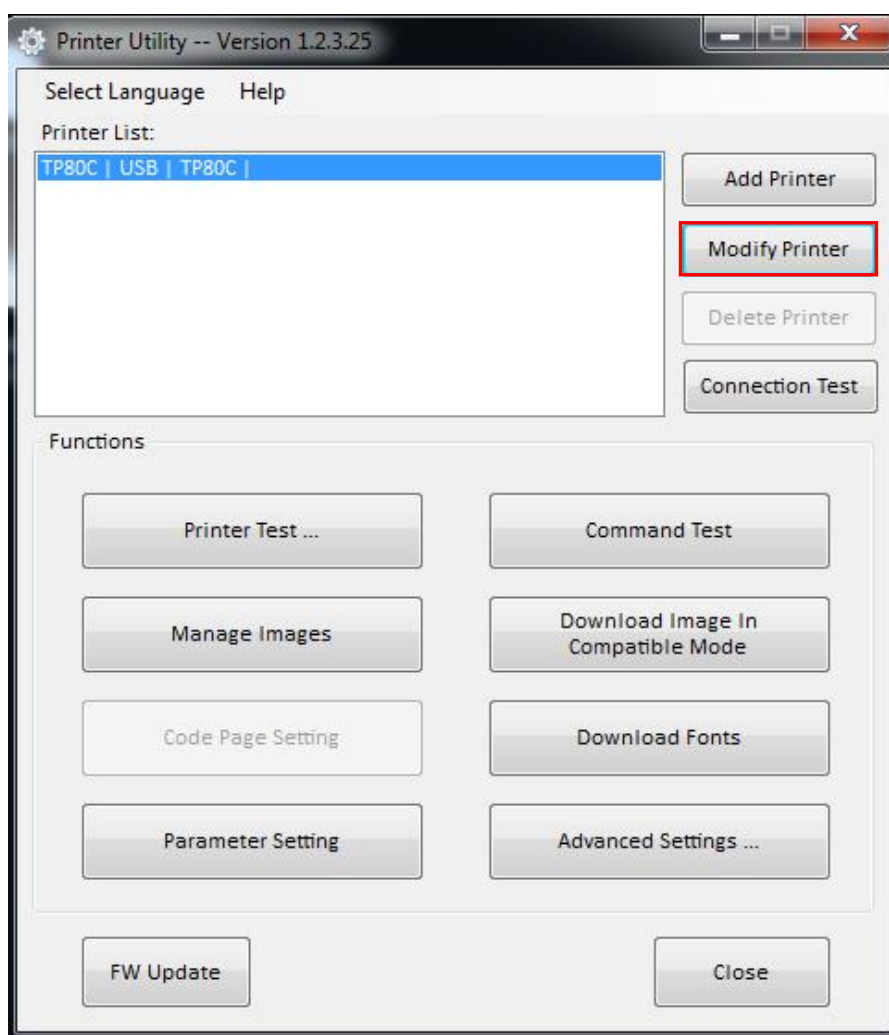
- Check the Virtual Serial Port

- ① Right-click the computer and select “Manage”.
- ② Click "Device Manager" to view the virtual port. (such as: COM2).





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



- ④ Change the port to "COM2".

PortInfo

Port type: COM

System Port: COM2

Baud rate: COM1

Parity: None

Stop Bits: 1

Notes:

PortInfo

Port type: COM

System Port: COM2

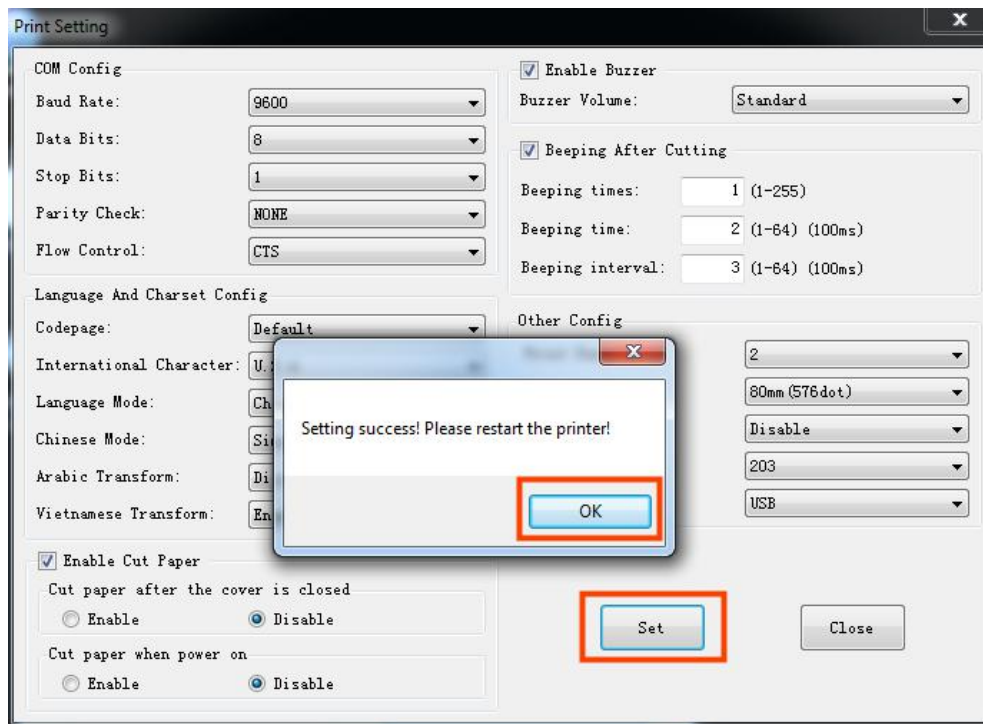
Baud rate: 19200

Parity: None

Stop Bits: 1

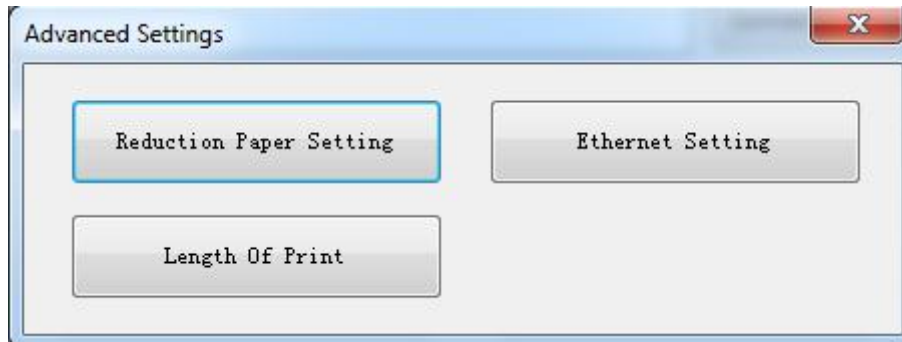
Notes:

2) After finishing setting all the above parameters, click "Set", and restart the printer, then the setting would take effect.



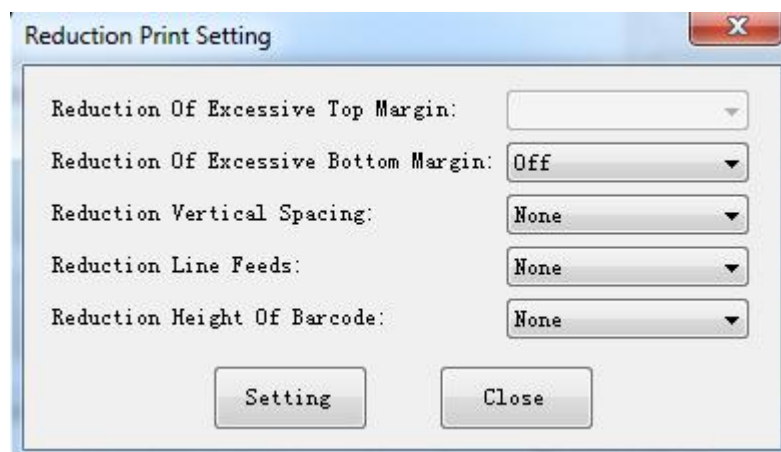
7.2.2.7 Advanced Setting

Advanced Settings contain following items. Click the button and printer will execute the appropriate action. The change will take into effect after restarting the printer.



◆ Reduction Paper Setting

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.

◆ 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.

Ethernet Setting

Ethernet Setting

DHCP: Static IP Mode

IP address: Static IP Mode
Auto Assignment IP

Subnet mask: 255 . 255 . 255 . 0

Default gateway: 10 . 0 . 21 . 1

MAC: 50 : 23 : 0D : 53 : 21 : 16

Set

Close

- 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:

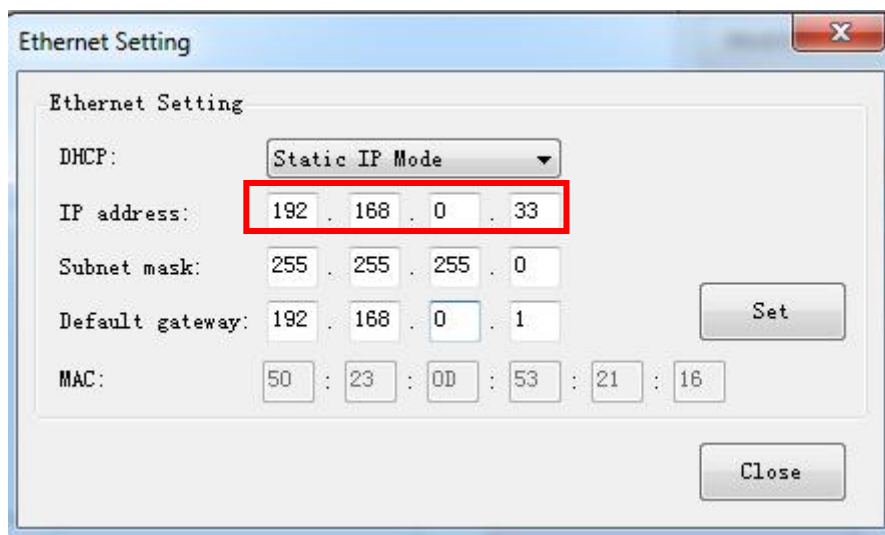


Figure ■ Printer IP Address

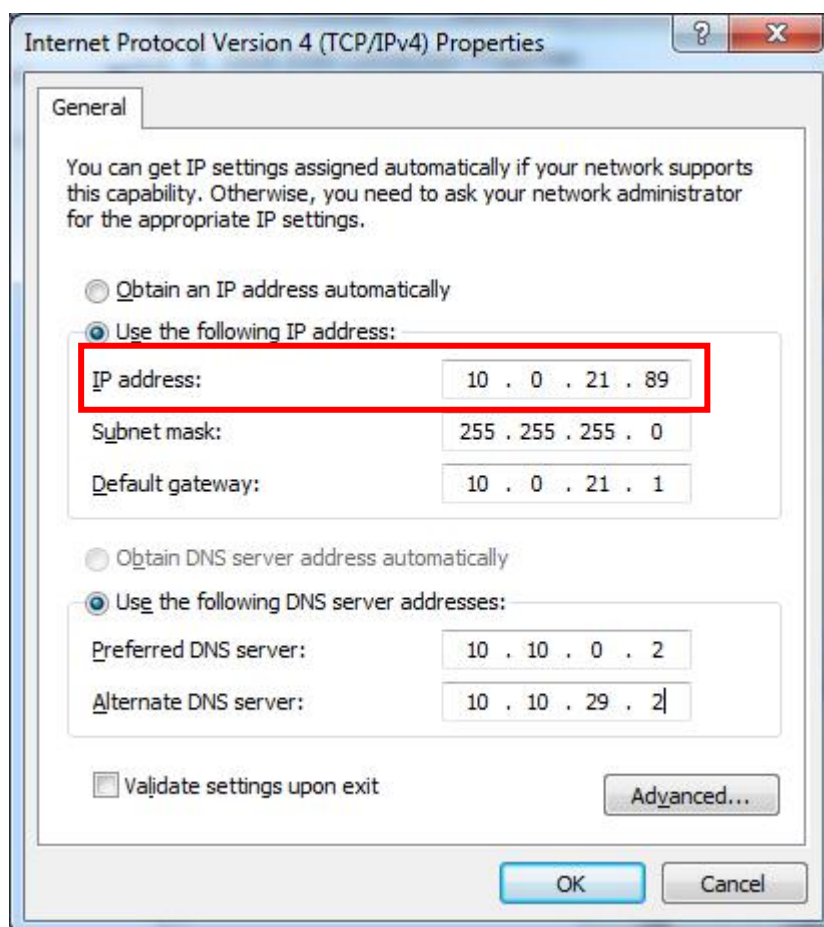
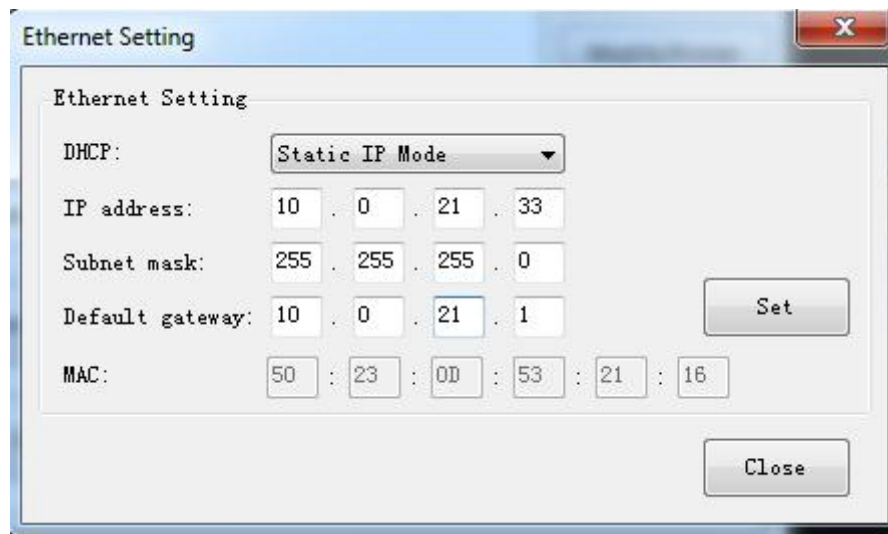


Figure ■ Host IP Address

2) Set the same network segment.

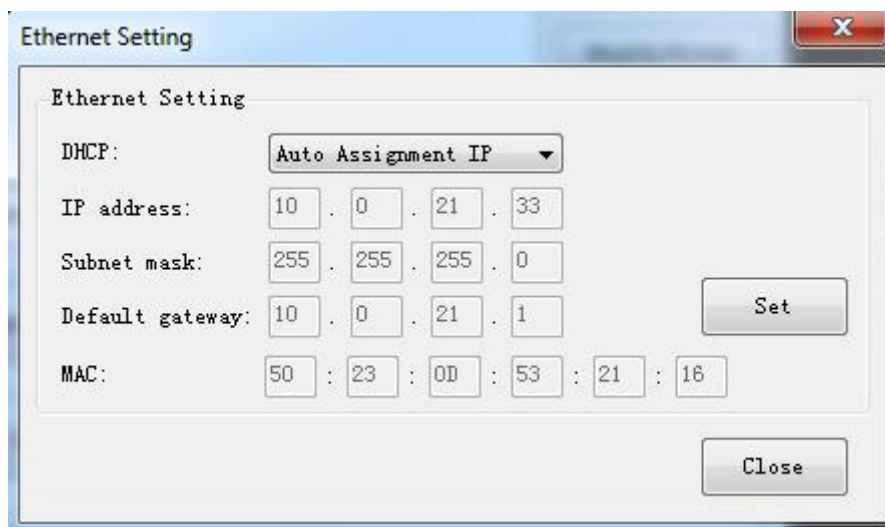


The screenshot shows the 'Ethernet Setting' dialog box. The 'DHCP' dropdown is set to 'Static IP Mode'. The 'IP address' is 10.0.21.33, 'Subnet mask' is 255.255.255.0, and 'Default gateway' is 10.0.21.1. The 'MAC' address is 50:23:0D:53:21:16. There are 'Set' and 'Close' buttons.

Figure ■ Printer IP Address

- Auto Assignment IP

This mode automatically assigns the IP address to the printer.



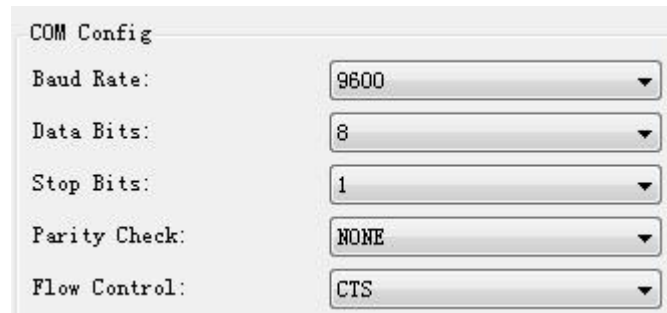
The screenshot shows the 'Ethernet Setting' dialog box. The 'DHCP' dropdown is set to 'Auto Assignment IP'. The 'IP address' is 10.0.21.33, 'Subnet mask' is 255.255.255.0, and 'Default gateway' is 10.0.21.1. The 'MAC' address is 50:23:0D:53:21:16. There are 'Set' and 'Close' buttons.

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



Note: This setting only supports the printers configured with Ethernet interface.

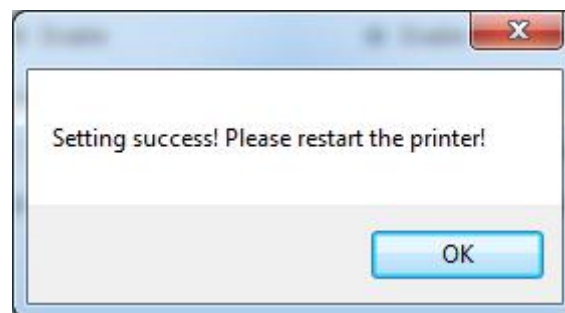
- **Modify the COM setting**



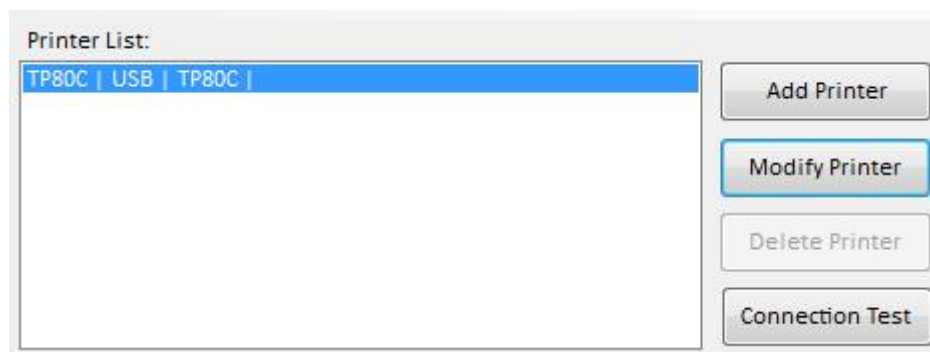
COM Config

Baud Rate:	9600
Data Bits:	8
Stop Bits:	1
Parity Check:	NONE
Flow Control:	CTS

- ① After setting the parameters as required, click "Set" and restart the printer.



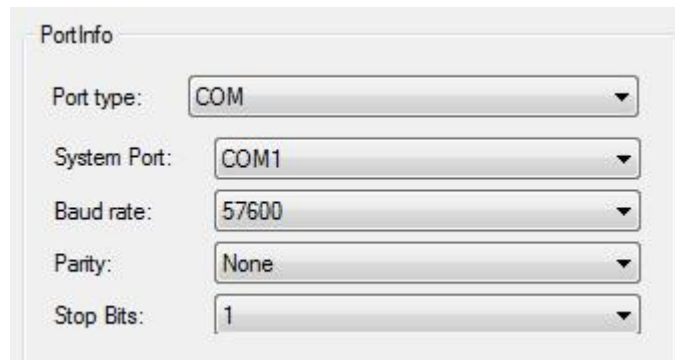
- ② After restarting the printer, open the main menu screen of the tool and click "Modify Printer".



Printer List:

TP80C USB TP80C	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.



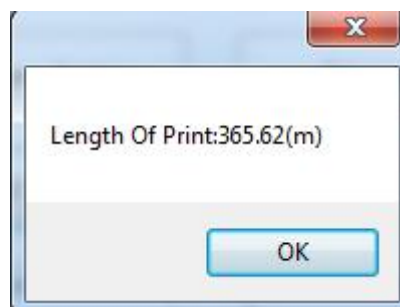
The PortInfo dialog box contains the following settings:

Setting	Value
Port type:	COM
System Port:	COM1
Baud rate:	57600
Parity:	None
Stop Bits:	1



Note: *This setting only supports models with serial ports.*

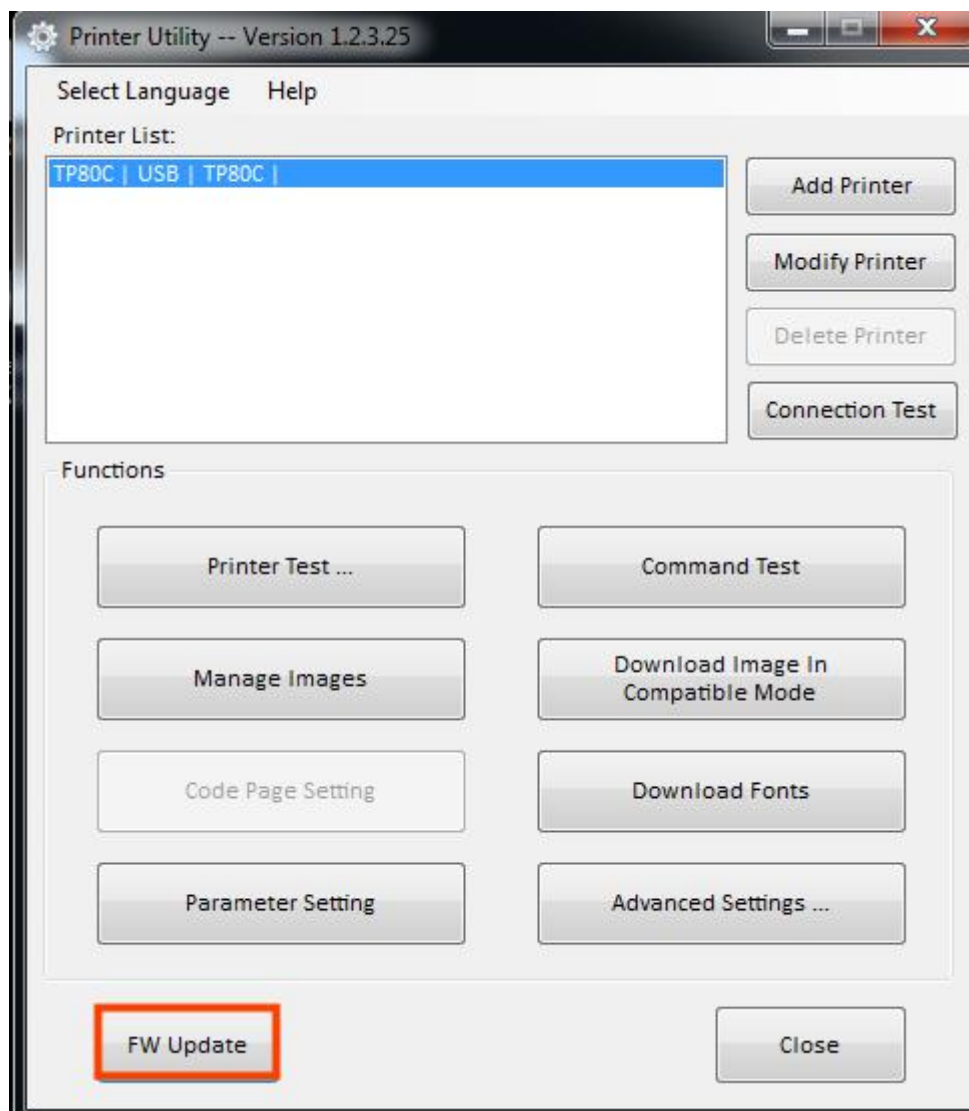
◆ **Length of Print**



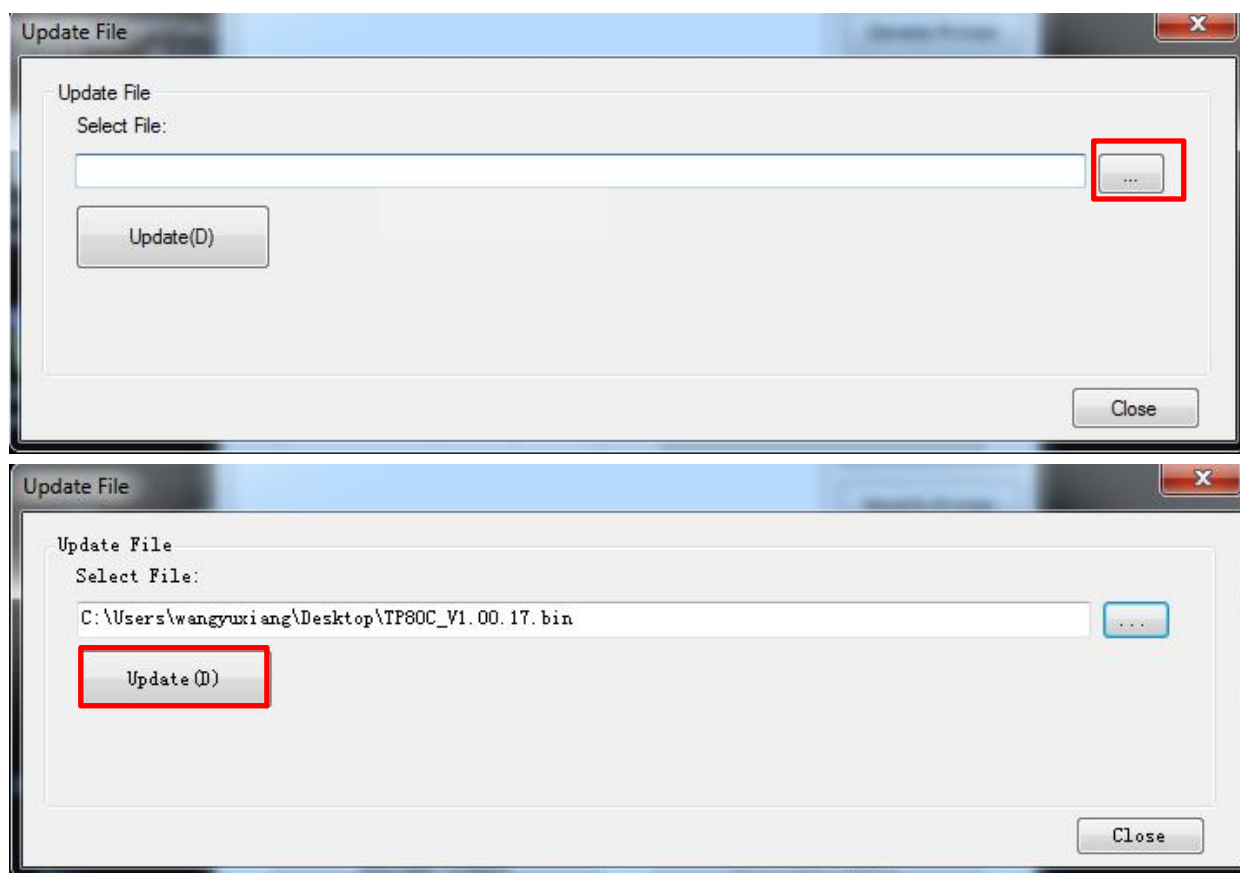
Click "Length of Print" to obtain the length of the paper that the printer has printed.

9.3 Firmware Update

1) Click “FW Update”.

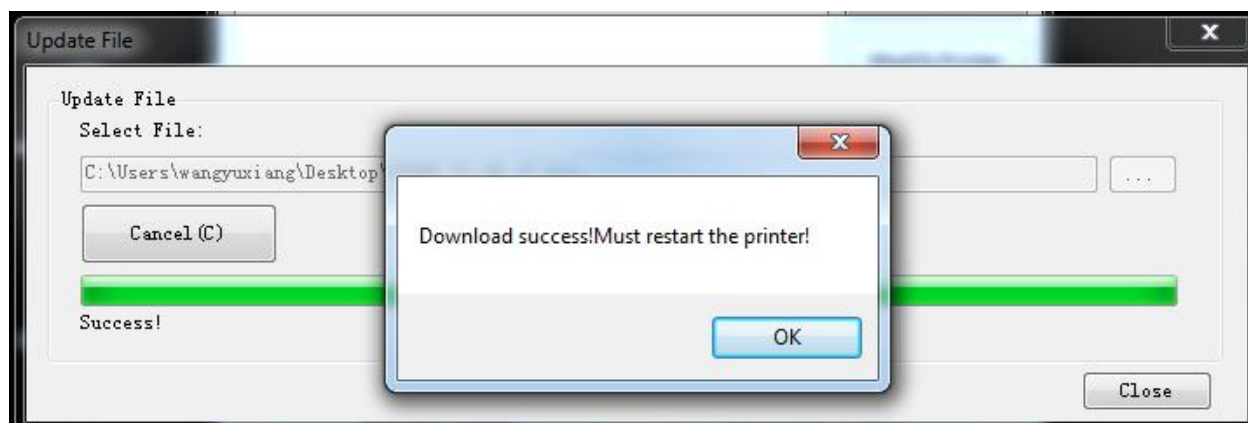


2) Select the bin file.



3) Click “Update”.

4) Update success.



5) Restart the printer to take the update into effect.

10 FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.