



User Manual

BP-206



Desktop POS Printer

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STATEMENT

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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 always easily accessible.

◆ 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

BP-206 is a thermal receipt printer with auto-cutter, 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.

BP-206 can connect with other equipment through serial, USB, and Ethernet interfaces. And the printer drivers are available for the WINDOWS XP/7/8/Vista operating system.

1.2 The Main Features

- 1) Unique design of vertical double auto cutter
- 2) Low noise
- 3) High print speed
- 4) Easy to load paper
- 5) Support page mode printing
- 6) Compatible with various width paper
- 7) Cash drawer interface
- 8) Communication interfaces optional

2 GETTING STARTED

2.1 Packing List

Please check the packing list:

1. Inspect the outside of both 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.

■ Standard Accessories



Printer



Power Adapter



Power Cord



CD



Quick Start Guide



USB Cable



Roll Paper

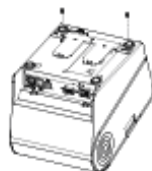


Serial Cable

■ Optional Accessories



Beam Cover



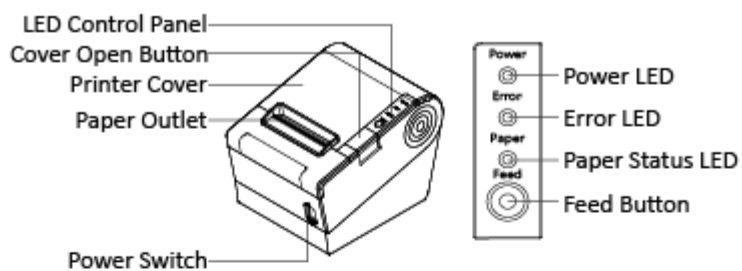
Wall Hanging Loading

! Notes:

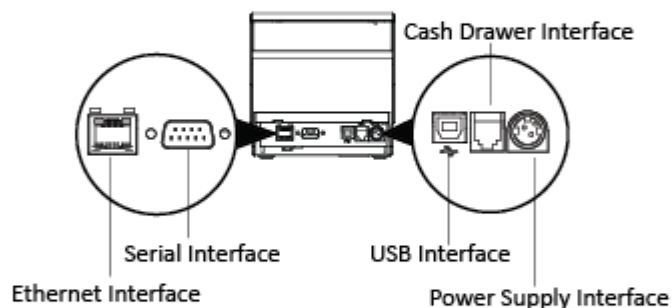
- 1) *The power cord and power adapter vary by local or region.*
- 2) *Some customers may require not packing some parts of the standard accessories for special, if users are confused, please contact with your dealer for more detail.*

2.2 Appearance and Components

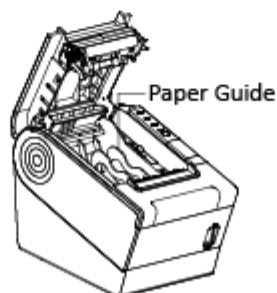
■ Front View



■ Rear View



■ Open the Top Cover



Specification of some part elements

1) Power switch

Press “0” to turn off power and press “|” to turn on power supply.

2) Feed Button

Feed paper: When it does not in the alarm status, press the button to feed paper. Pressing the button continuously to feed the long paper.

3) Power LED

It indicates the power status.

4) Paper LED

It detects the status of paper, such as paper near end and paper end. Checking more details in “3.2 Specification of Indicated light and beeper”.

5) Error LED

If there is abnormal phenomenon and error LED keep flashing, it means the printer is in the wrong status. Please turn off the power immediately.

6) Paper Guide

In paper storage, paper guide can change the position to adapt to different paper width.

BP-206 storehouse has 2 paper guide slot, paper guide slot 1/2 adapt to 80^{+0}_{-1} mm/ 58^{+0}_{-1} mm print paper respectively.



Warnings:

Paper guide is essential to adjusting the paper width. Please keep it properly. And the paper guide is un-taken during printing in case of print offset.

3 SPECIFICATION

3.1 Printer Specification

| Item | | Parameters |
|---------------|--------------------|---|
| Printing | Printing method | Direct thermal line printing |
| | Resolution | Default 203 dpi, 180 dpi can be emulated |
| | Printing width | 72mm (576dots) |
| | Printing speed | Max. 300mm/s |
| | Print density | Adjustable from degree 1 to degree 4 |
| | Printing Direction | Vertical and horizontal |
| Interface | Default | Built-in USB, RS232, LAN |
| Auto cutter | | Partial Cut |
| Page mode | | YES |
| Memory | RAM | 2MB |
| | Flash | 4MB |
| Character set | Font | Font A: 12*24 Font B:9*17 CHN: 24*24 |
| | Number of Columns | 48/64 |
| | Alphanumeric | 95 |
| | Expanded Character | 128*47 |
| | Code page | 47 |
| Graphics | | Support bitmap printing with different density and user defined bitmap printing (Max. 64K for per bitmap, and total space is 512K.) |
| Barcode | 1D | UPC-A, UPC-E, EAN8, EAN13, CODE39, ITF, CODEBAR, CODE128, CODE93 |
| | 2D | PDF417, QR code |
| Detection | Sensor | Paper out, Cover Open |
| Power supply | Input | AC100V-240V 50-60HZ |
| | Output | DC 24V±5%, 2.5A |

| Item | | Parameters |
|---------------------|---------------------|---|
| Paper | Paper Loading | Front loading, Up loading, Easy loading |
| | Paper Type | Standard thermal paper |
| | Paper Width | 79.5±0.5mm / 57.5±0.5mm (with 1" spacer) |
| | Paper Thickness | 0.056~0.1mm |
| | Paper Roll Diameter | 83mm Max. |
| Emulation | | ESC/POS |
| Condition | Operation | 0~40°C / 20~85%RH |
| | Storage | -20~70°C / 5~95%RH |
| Reliability | TPH Life | 150km |
| | Cutter Life | 2,000,000 times |
| Packing Information | Dimensions | 145*197*146mm (W*D*H) |
| | Accessories | Power adaptor, cables, cable cover(optional), CD, Quick Guide, paper roll |
| Driver | | Windows (POS Ready/Win8/Win7/Vista/XP/2000), Linux CUPS, JavaPOS, OPOS.net, OPOS |
| Eco Features | | Paper saving mode, Energy Star qualified |
| Optional | | Kitchen Bell |
| Detect Function | Sensors | Cover open detection, Paper end detection, over-heated detection, high/low pressure detection |

3.2 Media Specification

3.2.1 Continuous Thermal Paper Specification

| | |
|---------------------|--|
| Paper Type | : Standard thermal paper |
| Paper Width | : 79.5±0.5mm / 57.5±0.5mm (with 1" spacer) |
| Paper Roll Diameter | : 83mm Max. |
| Paper Thickness | : 0.056~0.1mm |

| Paper Type | Manufacturer |
|-----------------------|---------------------|
| FD210, PD150R, PD160R | OJI Paper CO., LTD. |

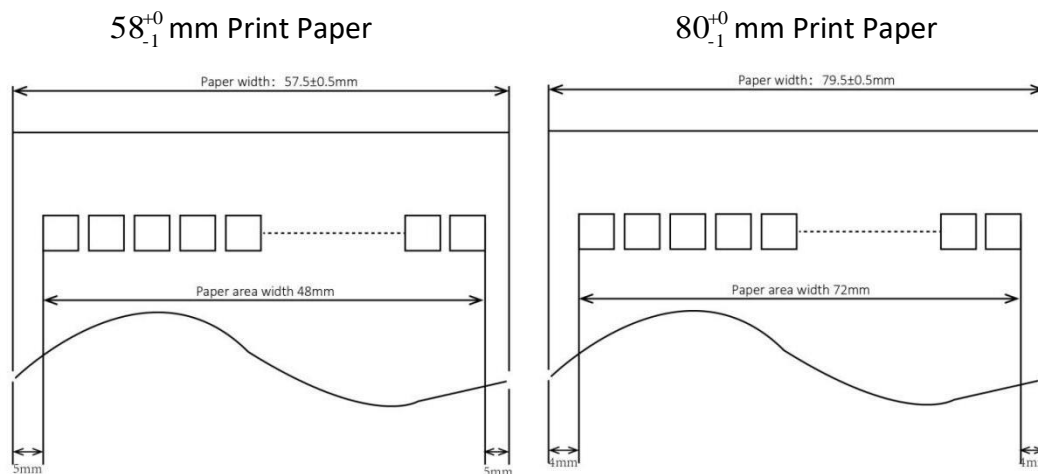


Notes:

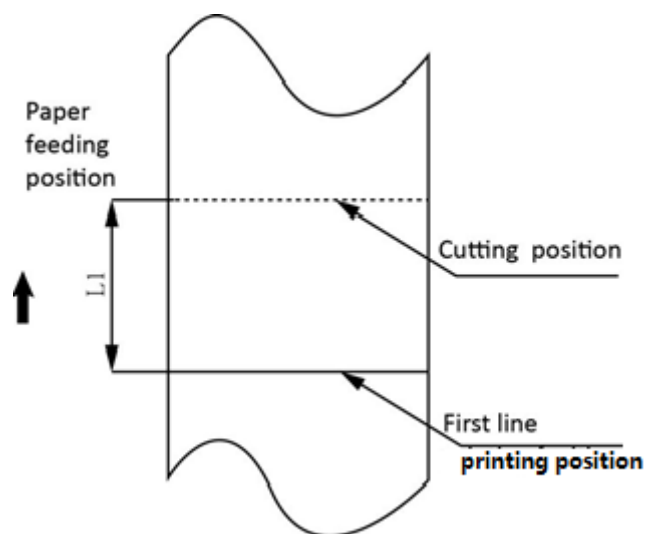
- 1) *Pls. use the recommended thermal paper or same quality paper, otherwise it will influence the print quality and decrease the life of thermal printer head.*
- 2) *Don't stick the paper on the roll paper mandrel.*
- 3) *If the thermal paper is polluted by chemical or oil that will cause the thermal paper heat sensibility decreases and influence the print quality.*
- 4) *Don't use finger to touch the surface of thermal paper, otherwise it will cause color fading.*
- 5) *When the environment temperature is higher than 70°C, the thermal paper color will fade. Please 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) |
|--------|-----------------------------|
| BP-206 | 15.4mm |

4 INSTALLATION AND USAGE

4.1 Unpacking

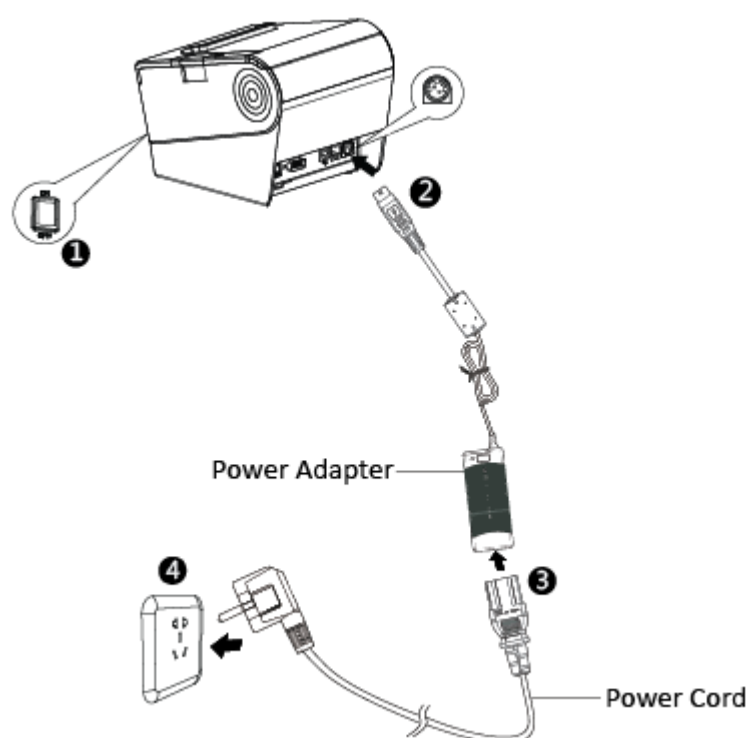
After opening the package, please check if any items are missing or damaged. If there are any questions, please consult the local dealer or manufacturer.

4.2 Installation Site and Direction of Printer

- 1) BP-206 have two ways to install: wall-hanging (optional: wall-hanging carrier) and horizontal installation. It's recommended that install the printer at horizontal line;
- 2) The printer shall be installed at a flat and steady place. It's recommended that install the printer at horizontal line. The angle of inclination should not exceed $\pm 10^\circ$ (paper feed direction) if tilt install printer, it does not allow to tilt by other direction;
- 3) Keep printer far away from liquids.
- 4) Avoid placing the printer on place where is shock.
- 5) Ensure printer ground connect is safe.
- 6) When the printer is at operation and maintenance, it is recommended to leave enough space to ensure the printer can work in reliability and ease of operation.

4.3 Power Adapter Connection

- 1) Make sure the printer's power switch is turned off.
- 2) Put the cable plug of power adapter facing up at flat side, insert the rear of the printer power connector.
- 3) Turn on the power.
- 4) Pay attention about disconnecting or connect the AC adapter at right method, or likely to cause damage.



► The plug of power adapter is designed in a switch type, when accessing power adapter and uttered the voice "click", it means the connected socket switch is locked the adapter connect well, otherwise please connect again.

► When pull out the adapter, please pinch the shell of power adapter and pull the switch up, when the switch is fully opened then pull out the power adapter.

► Don't put forth your strength to pull the plug by squeeze at any of place of power adapter. Because it is more difficult to pull it out and easily damage the cable.



Notes :

- 1) Please only use the power adapter are recommended by supplied or equivalent products.**
- 2) When disconnecting the AC adapter plug, handhold plug connector housing to avoid the pulling on the cable in force.**
- 3) Avoid dragging the power adapter cable, otherwise it will damage the cables, causing fire and shock.**
- 4) Avoid putting power adapter around a heating device, otherwise the cable may melt, causing fire and shock.**
- 5) If you do not use the printer in a long time, please turn off the power supply of printer power adapter.**

4.4 Interface Cable Connection

- 1) Make sure the printer's power switch is turned off.
- 2) Put the interface cable into the matched interface and fixed with screws (or spring) on the plug.
- 3) Connect the other end of the interface cable to the host.

4.5 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.)*

4.6 Media Loading

Confirm the type of paper used by the printer before printing. The default paper type is specified thermal paper.

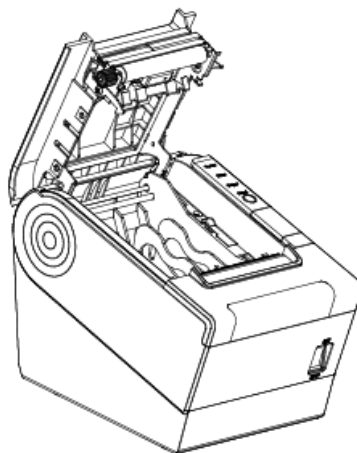
Choose the paper guide according to the printing paper.

4.6.1 Paper Confirmation

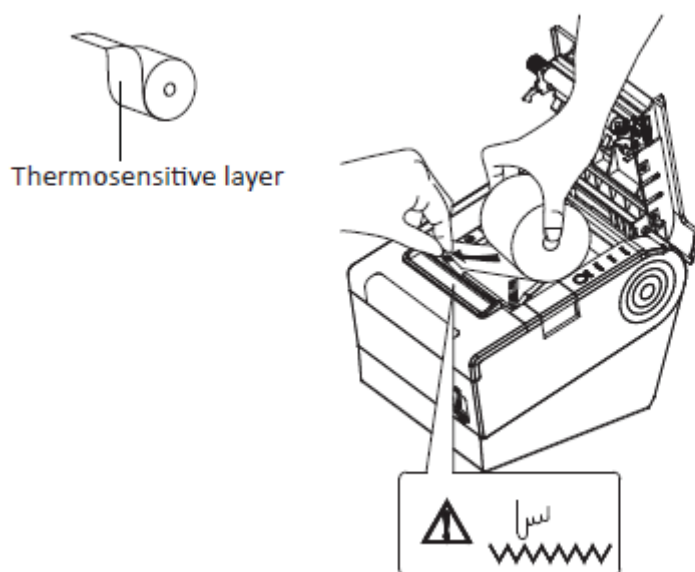
- 1) Put the finger into the hole in the paper guide, then lift the paper guide.
- 2) According to the paper width, insert the paper guide in the proper position.

4.6.2 Procedure of Loading

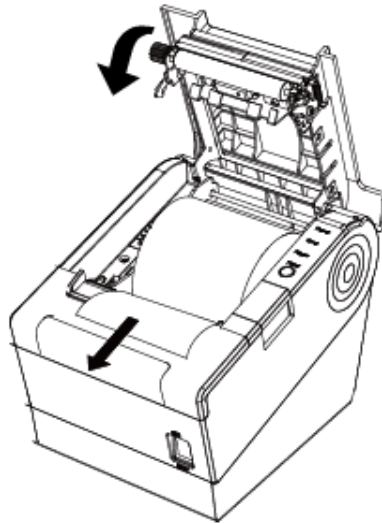
- 1) Turn off the printer.
- 2) Pressing the open button, open the front cover of printer.



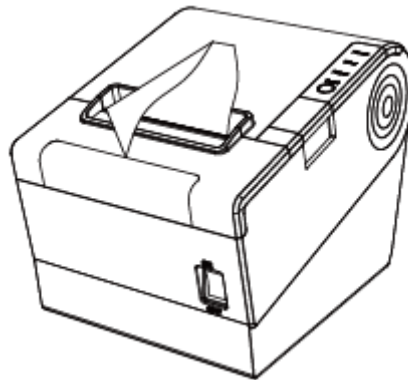
- 3) Put the paper into printer. Pay attention to the direction of the paper.



4) Close the top cover of printer.



5) Tear the redundant paper.



Notes:

1) According to the paper size to adjust the paper guide.

2) Make sure the paper inside is at tight status, or it will issue paper or others obstacle.

4.7 Specification of LED Indication and Beeper

4.7.1 Specification of LED Indication

| Name | Status | Specification |
|----------------------|--------|-----------------------------------|
| POWER LED (Green) | ON | The printer works well |
| | OFF | The printer powers off. |
| ERROR LED (Red) | Flash | The printer is in an error state |
| | OFF | The printer is in a normal state |
| PAPER LED (Red) | ON | The printer is in paper end state |
| | OFF | The printer is in a normal state |

4.7.2 Beeper

| Description | POWER LED | ERROR LED | PAPER LED | Beeper |
|---|-----------|-----------|-----------|-----------------------|
| Cover Open | ON | ON | ON | "Beep, Beep-, Beep" |
| Full of paper | ON | OFF | OFF | Silent |
| No Paper | ON | ON | ON | "Beep Beep Beep". |
| Paper Near End | ON | OFF | ON | Silent |
| Cutter Jam | ON | Flash | OFF | "Beep-, Beep--" |
| Over-temperature warning before stop printing | ON | Flash | OFF | "Beep--,Beep, Beep--" |
| Over-temperature alarm when stop printing | ON | Flash | OFF | "Beep--,Beep, Beep--" |
| Low pressure alarm | ON | Flash | OFF | "Beep, Beep, Beep--" |
| High pressure alarm | ON | Flash | OFF | "Beep, Beep, Beep--" |



Note: 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 in the normal range.

4.7 Print Self Testing

- 1) Make sure the printer has been installed roll paper and turn off the top cover.
- 2) Make sure the printer has linked to power.
- 3) Make sure the printer power off.
- 4) Press and hold FEED button, then turn on power switch, the printer will print out self-test page.

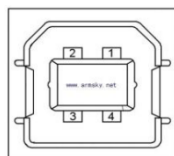
4.9 Printing of Windows Driver Program

- 1) Install the Windows Driver program. (Please refer to the Windows Driver Manual)
- 2) Choose the "Interface".
- 3) Use the Windows Driver Program to print out the "Self-test page".

5 INTERFACE SIGNAL

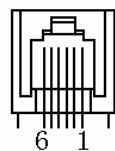
Printer BP-206 supports cash drawer interface and many other communication interfaces, such as serial interface, USB interface and Ethernet interface. The printer has the communication board with the default USB interface and cash drawer interface.

5.1 USB



| Pin No. | Signal Name |
|---------|-------------|
| 1 | VBUS |
| 2 | D- |
| 3 | D+ |
| 4 | GND |

5.2 Cash Drawer

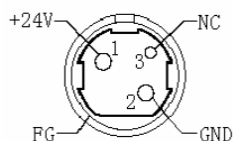


| Pin No. | Signal Name |
|---------|-------------|
| 1 | FG |
| 2 | Drawer 1 |
| 3 | DRSW |
| 4 | VDR |
| 5 | Drawer 2 |
| 6 | GND |

Electrical characteristics

- Driving voltage: DC 24 V
- Driving current: maximum 0.8 A (In 510 ms)
- Drawer check signal: “L” = 0~0.5 V “H” = 3~5 V

5.3 Power Port Definition



| Pin No. | Signal Name |
|---------|-------------|
| 1 | +24V |
| 2 | GND |
| 3 | N.C |
| SHELL | F.G |

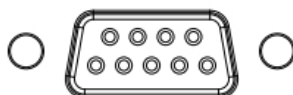


Notes:

- 1) Strictly prohibit unplug the cable while the printer is power on.
- 2) When arranging the line of communication, you must avoid paralleling with the strong current.
- 3) you must use the shielded communication line.

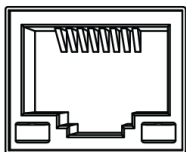
5.4 Serial Interface

Printer BP-206 serial interface is compatible with RS 232 standard, with 9 pin sockets.



| Pin No. | Signal Name |
|---------|-------------|
| 1 | - |
| 2 | TXD |
| 3 | RXD |
| 4 | - |
| 5 | GND |
| 6 | DSR |
| 7 | CTS |
| 8 | RTS |
| 9 | - |

5.5 Ethernet Interface



| Pin No. | Signal Name |
|---------|-------------|
| 1 | TX+ |
| 2 | TX- |
| 3 | RX+ |
| 4 | - |
| 5 | - |
| 6 | RX+ |
| 7 | - |
| 8 | - |

6 TROUBLESHOOTING

The 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 by yourself, please contact your dealer for assistance.

6.1 Printer Not Working

| Description | Reason | Solution |
|---|----------------------|-----------------------------|
| LED does not light Printer does not work | No power | Connecting the power supply |
| | Not power on | Turn on the printer |
| | Circuit board broken | Contact with the dealer |

6.2 LED Indicator of the Control Panel and Beeper Alarm

| Description | Reason | Solution |
|---|-----------------------------|---|
| LED always on | Paper is going to run out | Reload a new paper |
| Error LED always on and beeper alarms | Printer Cover open | Close the printer cover |
| Paper Error LED always on and beeper alarms | Paper end | Reload the roll paper |
| Error LED blinks and beeper alarms | Thermal print head overheat | 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 |
|------------------------------|---|--|
| Coloured stripe in the paper | Paper near end | Reload a new roll paper |
| Blurred printing or spot | Install the roll paper incorrectly | Check if the roll paper is installed |
| | Unqualified roll paper | Use recommended thermal roll paper |
| | The thermal head or print roller is dirty | 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 | The thermal head or print roller is dirty | Clean the thermal head or print roller |
| | Thermal head damaged | Contact your dealer for assistance |

6.4 Problems Emerge During the Paper Cutting Processes

| Problem description | Probable reason | Resolution |
|--|---------------------------------------|--|
| Cutter jam, the movable cutter cannot 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 | 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 |

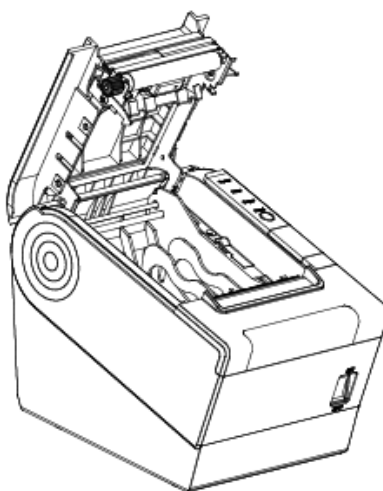
6.5 Remove Jammed Paper



Warning: *Do not touch the thermal print head because it becomes very hot after printing.*

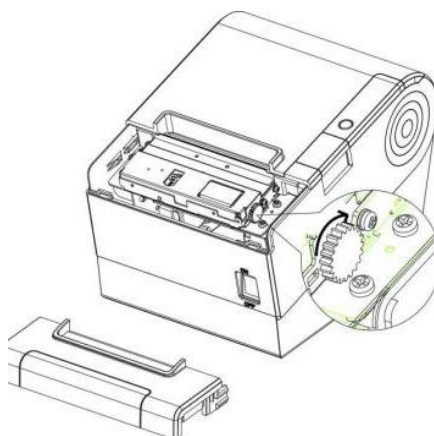
If the top cover can be opened, operate it according to the next steps.

- 1) Turn off the printer and press open cover button.
- 2) Remove the jammed paper, reinstall the roll, and close the cover.



If the auto cutter jam occurs on printer and you cannot open the printer cover, open the cutter cover as shown on the below.

- 1) Turn the printer off and open the front cover.
- 2) Turn the knob until cutter return to the normal position (tip tag).
- 3) Close the front cover.
- 4) Open the top cover and remove jammed paper.



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 minute 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.

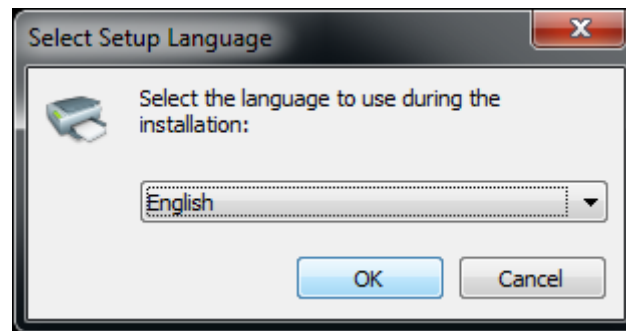
8 UTILITY TOOL INSTRUCTION

BAYAMAX Utility Tool is applicable to the following operating system:

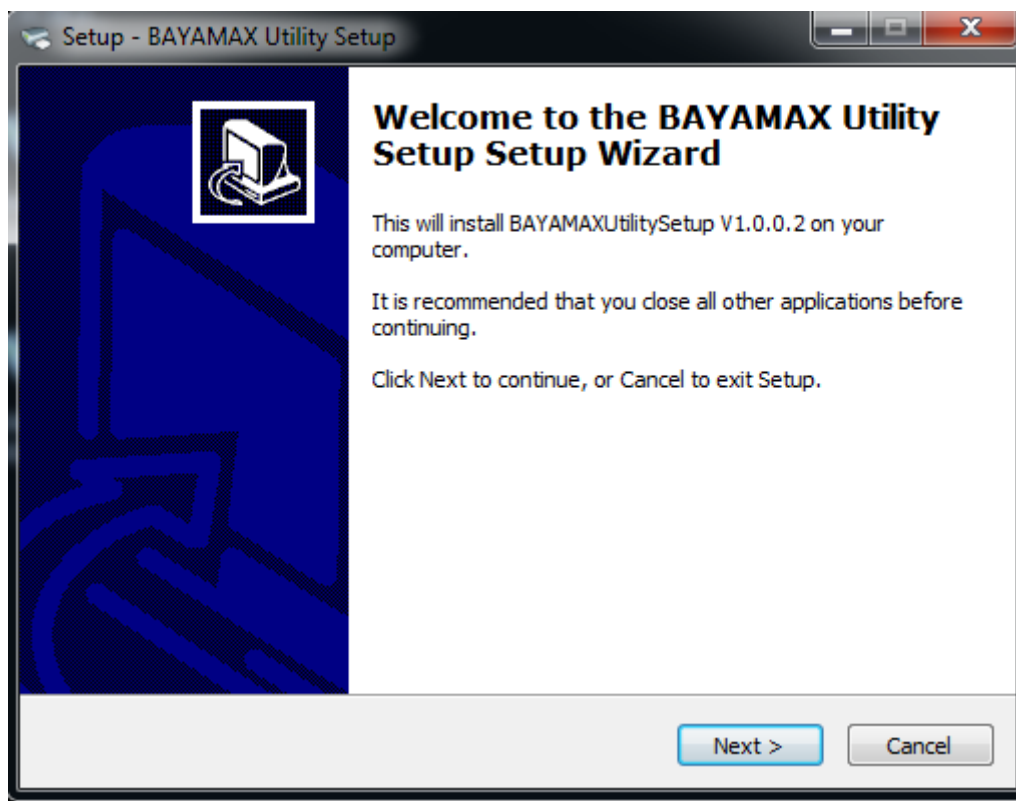
- Microsoft Windows 10 (32 bit/64 bit)
- Microsoft Windows 8 (32 bit/64 bit)
- Microsoft Windows SPI (32 bit/64 bit)
- Microsoft Windows XP Professional SP3 (32 bit)

8.1 Utility Tool Installation

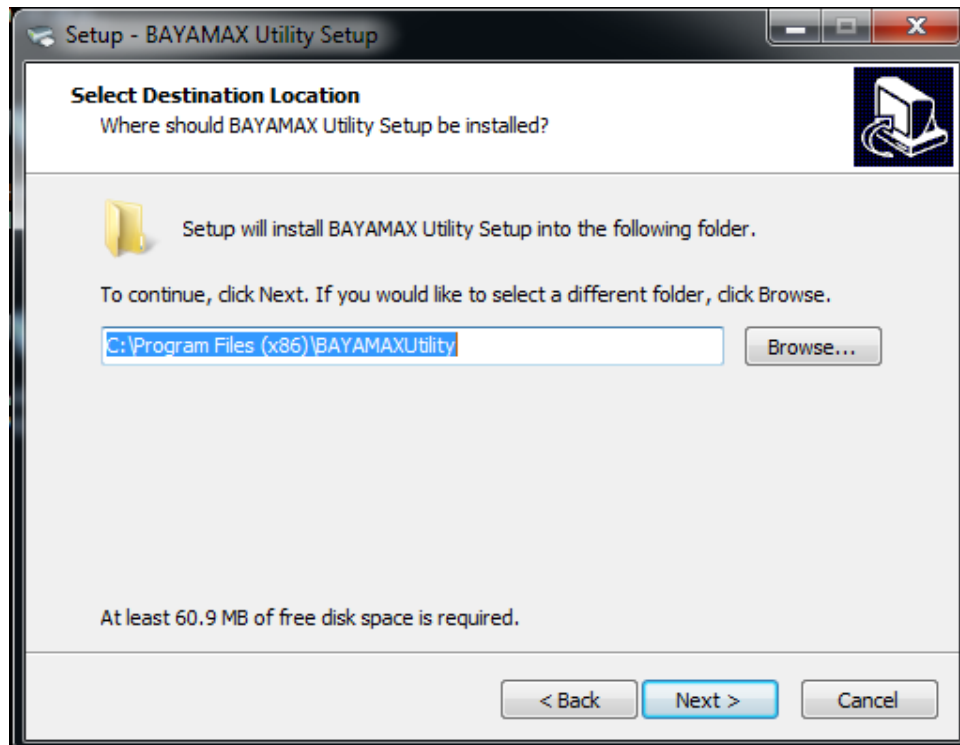
- 1) Open the installation package.
- 2) Choose “English” and click “OK”.



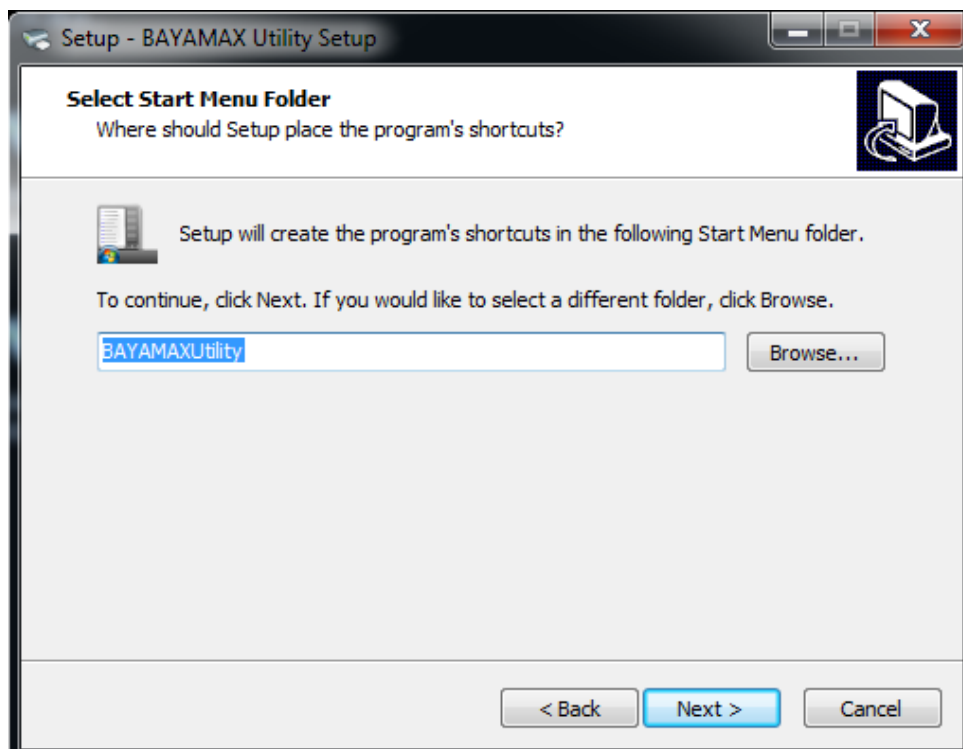
- 3) Click “Next”.



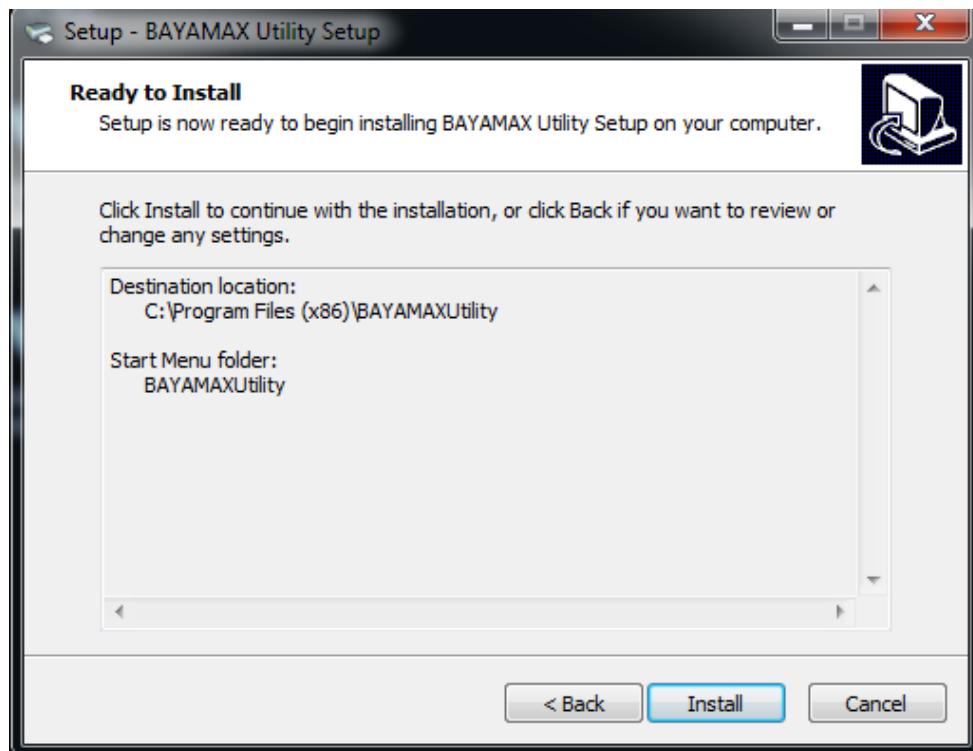
4) Select destination location to install the BAYAMAX Utility Tool. Click “Next”.



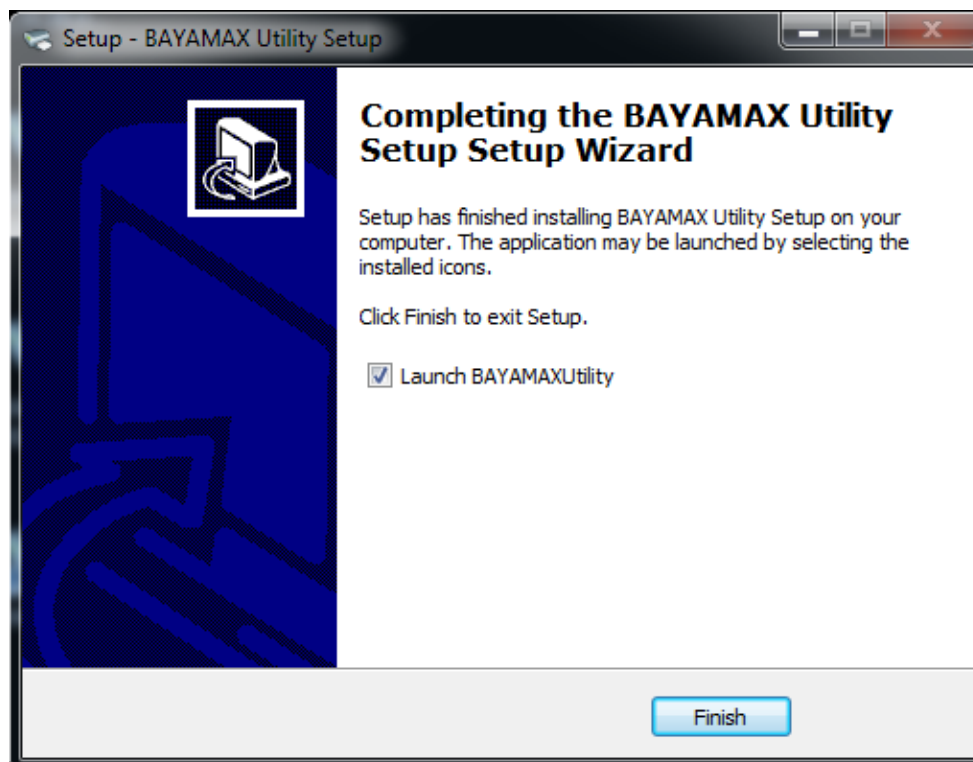
5) Select start menu folder. Click “Next”.



6) Click "Install".



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



8.2 Utility Tool Using

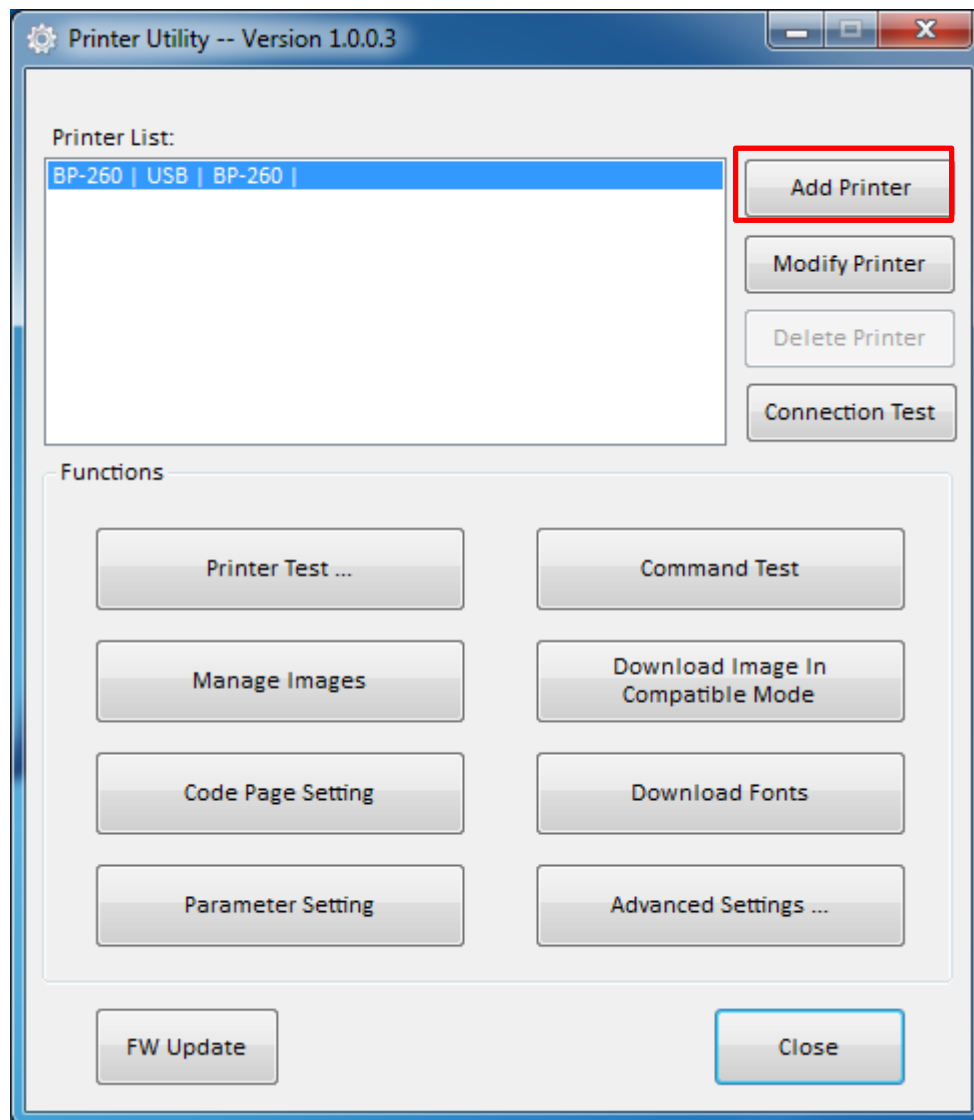
8.2.1 Add/Modify/Delete/Connection Printer



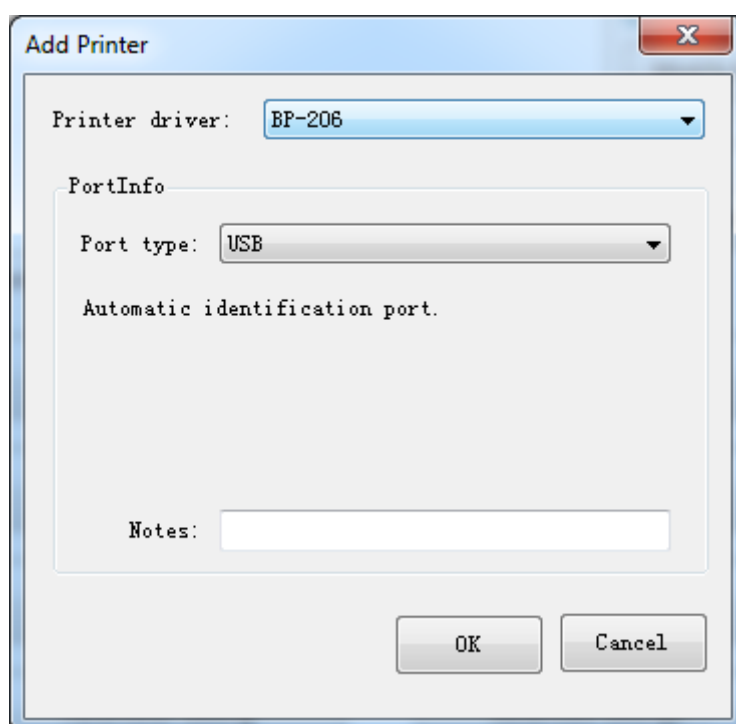
Warning: In different operating system, screen has a little difference. Please operate it according to the tips. Take BP-206 (Windows 7) for example.

- Add printer

1) Click “Add Printer”.

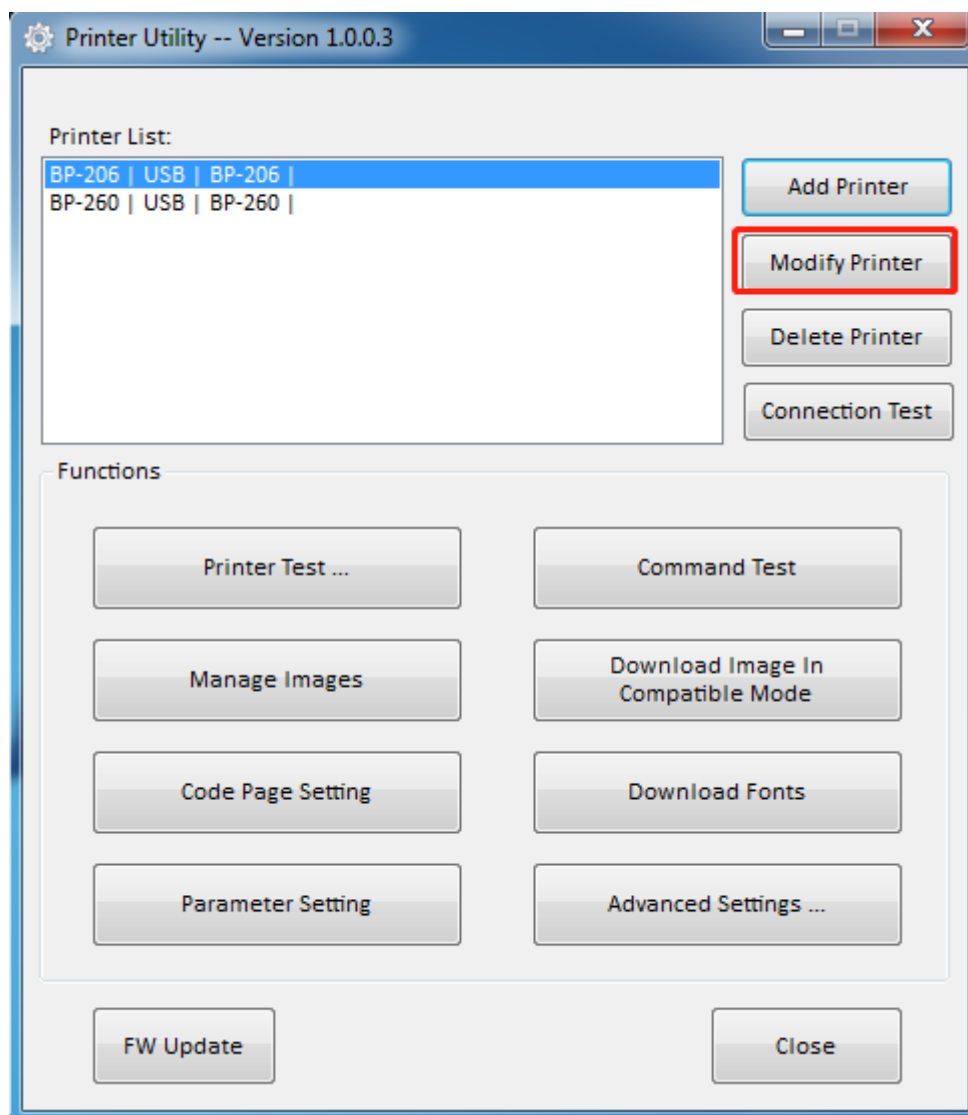


2) Choose the appropriate printer type and port. Then click “OK”. (Take BP-206 for example)

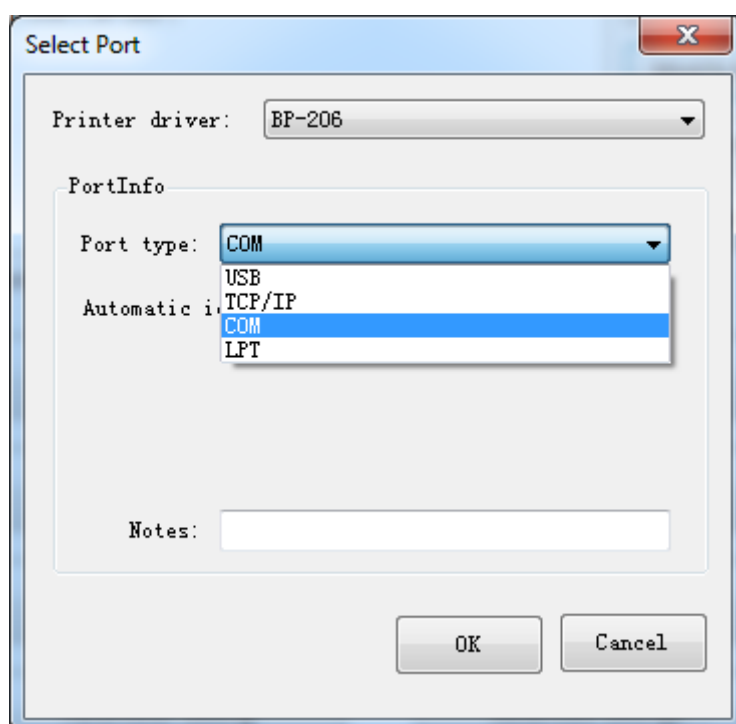


- **Modify printer**

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



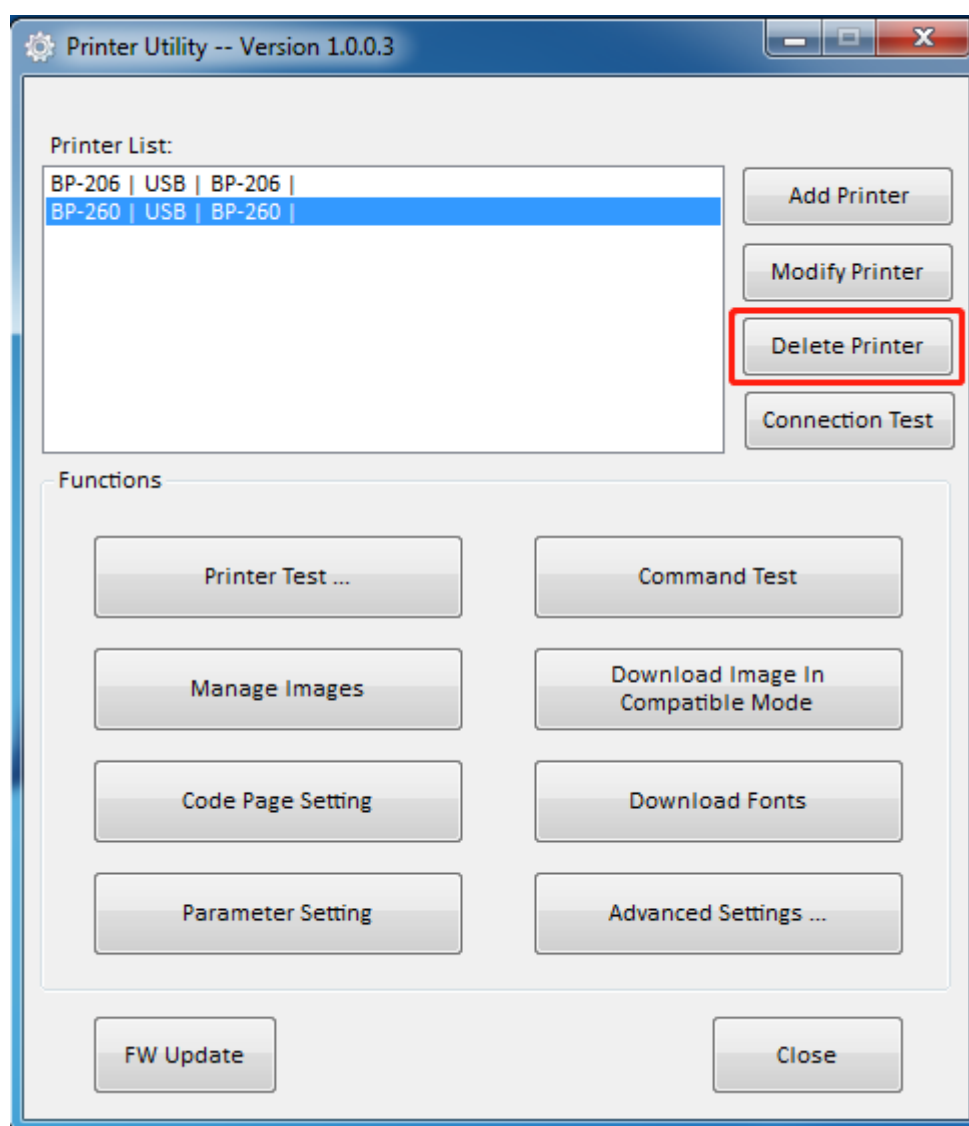
2) Choose the new printer and new port. Then click “OK”.



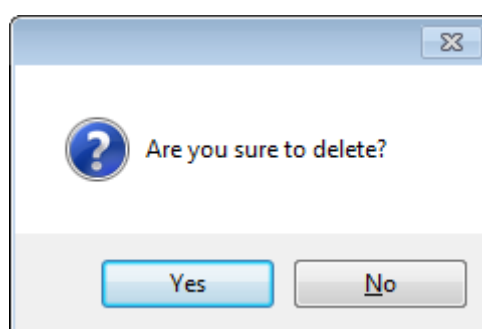
3) The new printer is added successfully.

● Delete printer

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



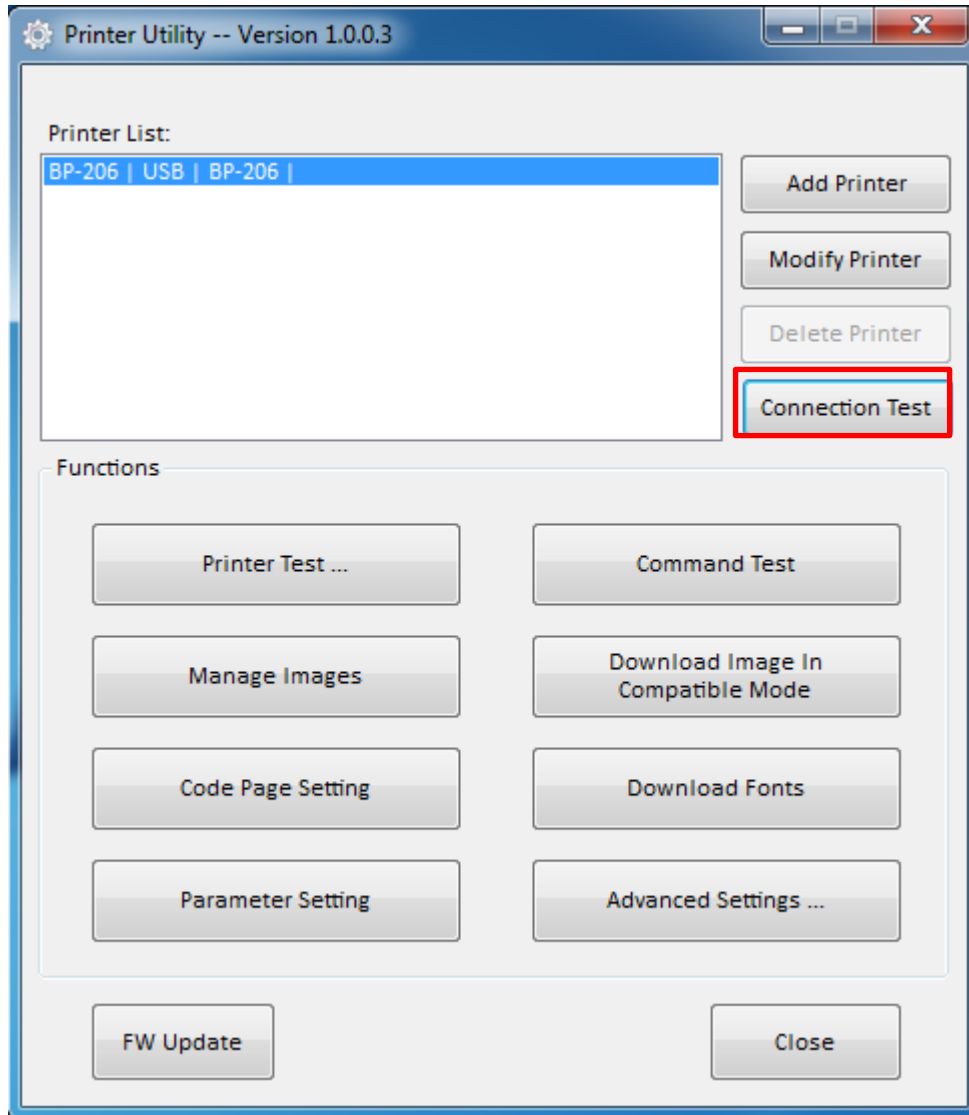
2) Click “Yes”, then the printer is deleted.



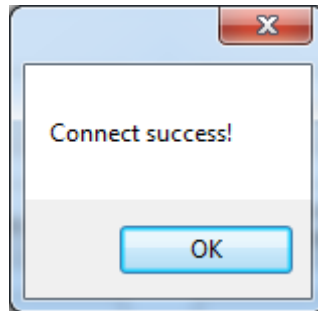
- **Connection Test**

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.



 **Notes:**

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

8.2.2 Functions

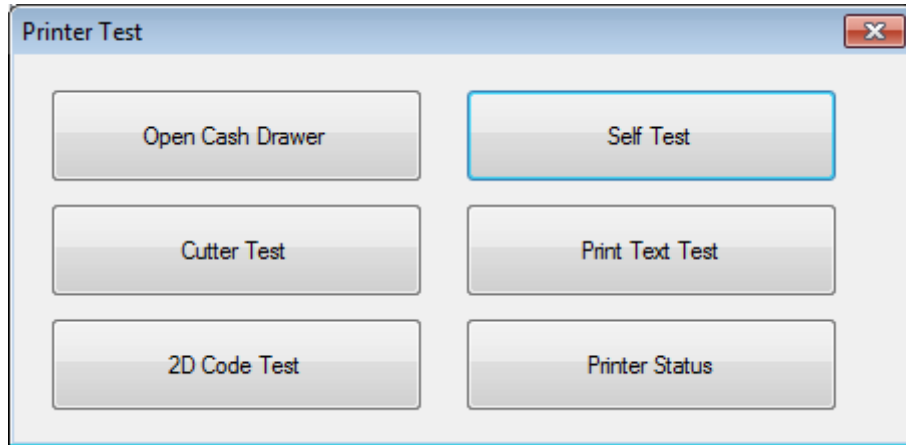
Printer Test contains the following items:

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

8.2.2.1 Printer Test

■ Self Test

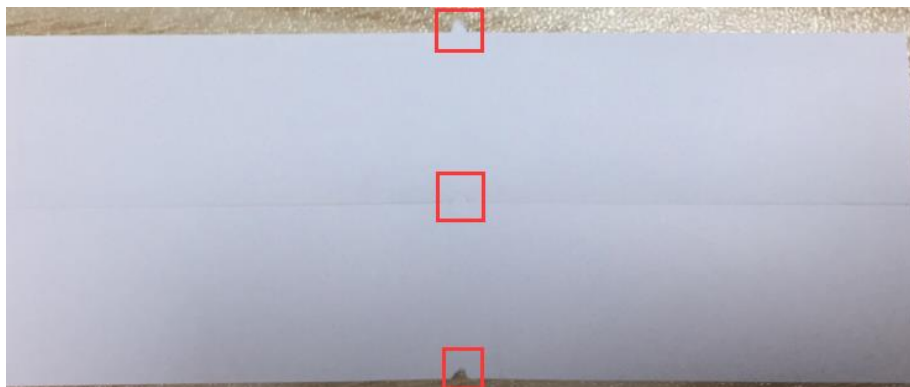
Click Configuration information to see if the printer will print properly.



■ Cutter Test

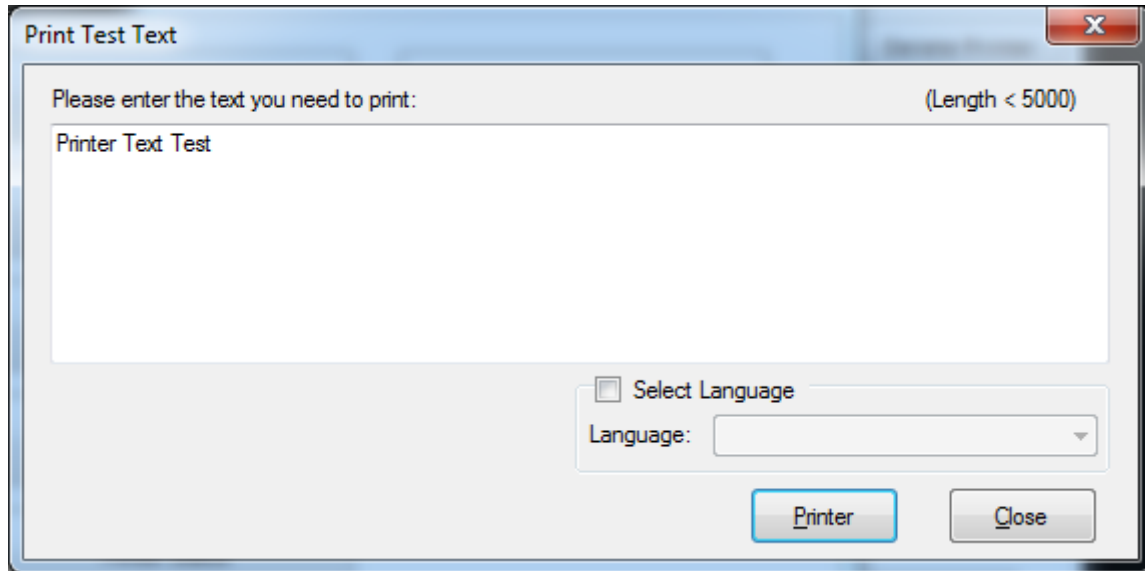
Click the cutter test and the paper will be cut automatically. Cutting method is half-cutting (half-cutting: Not all cut off, between the two sheets of paper to leave a connection point)

As shown in the figure:



■ 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.

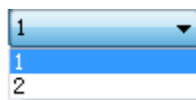


⚠ Note: *The language option in the lower right corner is checked according to the input text. (For example: The input is Simplified Chinese, the language is checked for Simplified Chinese, the printer prints the input text according to the setting options, and if you check other languages, the printer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

■ 2D Code

Click the QRCode mode.

▲ Model: 1~2

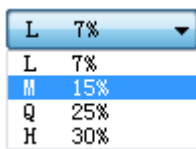


▲ Module size: 1~16

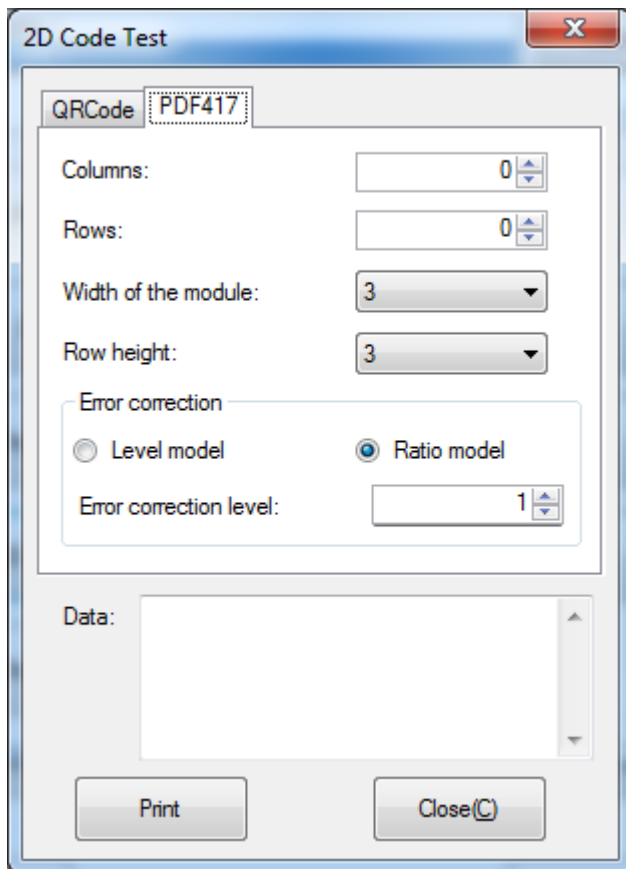
The larger the module value, the larger the printed QR code is, and the smaller the opposite.

▲ Error correction level: 7%~30%

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



Click the PDF417 mode.

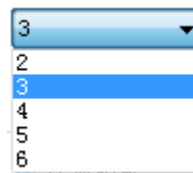


▲ Columns: 0~30

▲ 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

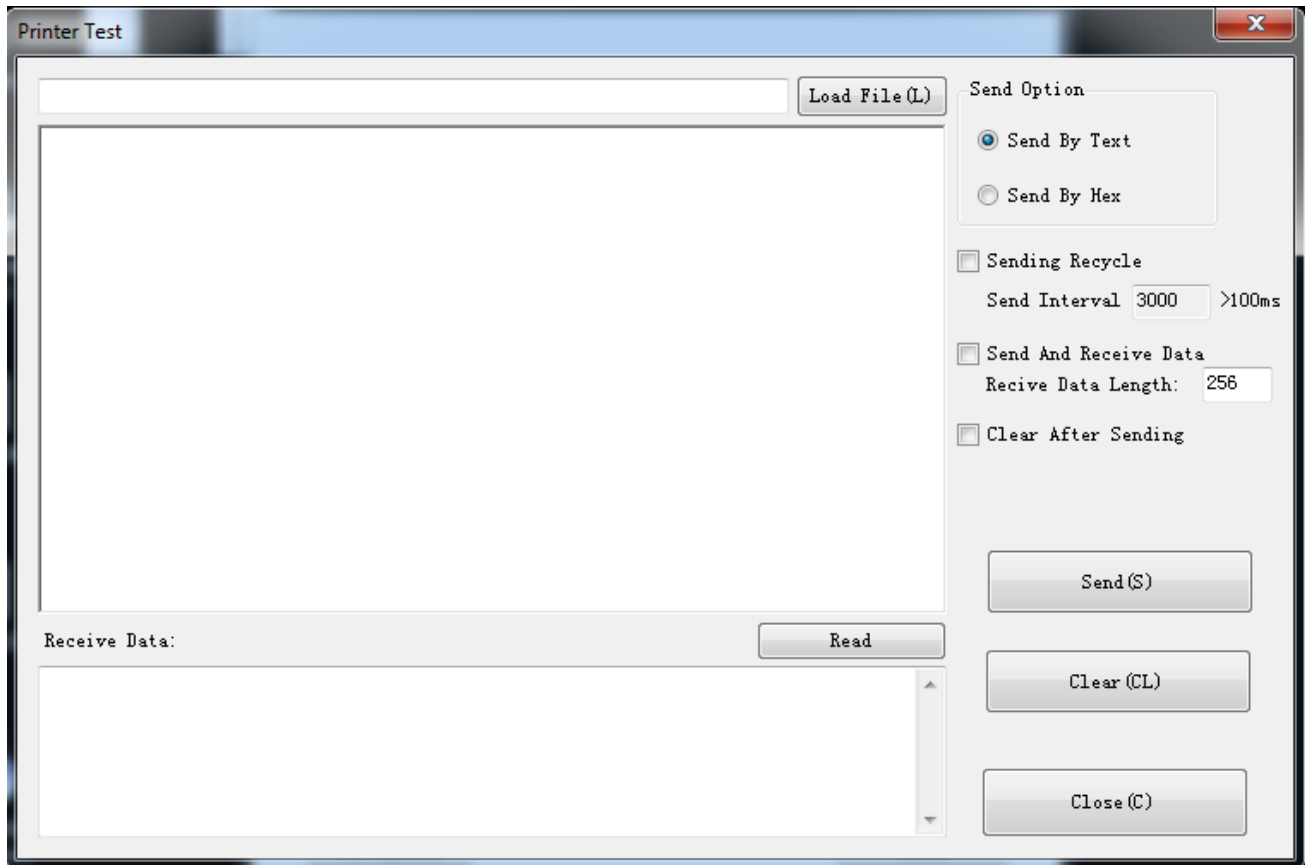
The larger the module value, the longer the printed PDF417 barcode, and the smaller the opposite.

▲ Error connection level

8.2.2.2 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 >100ms

☐ Send And Receive Data

Recv Data Length:

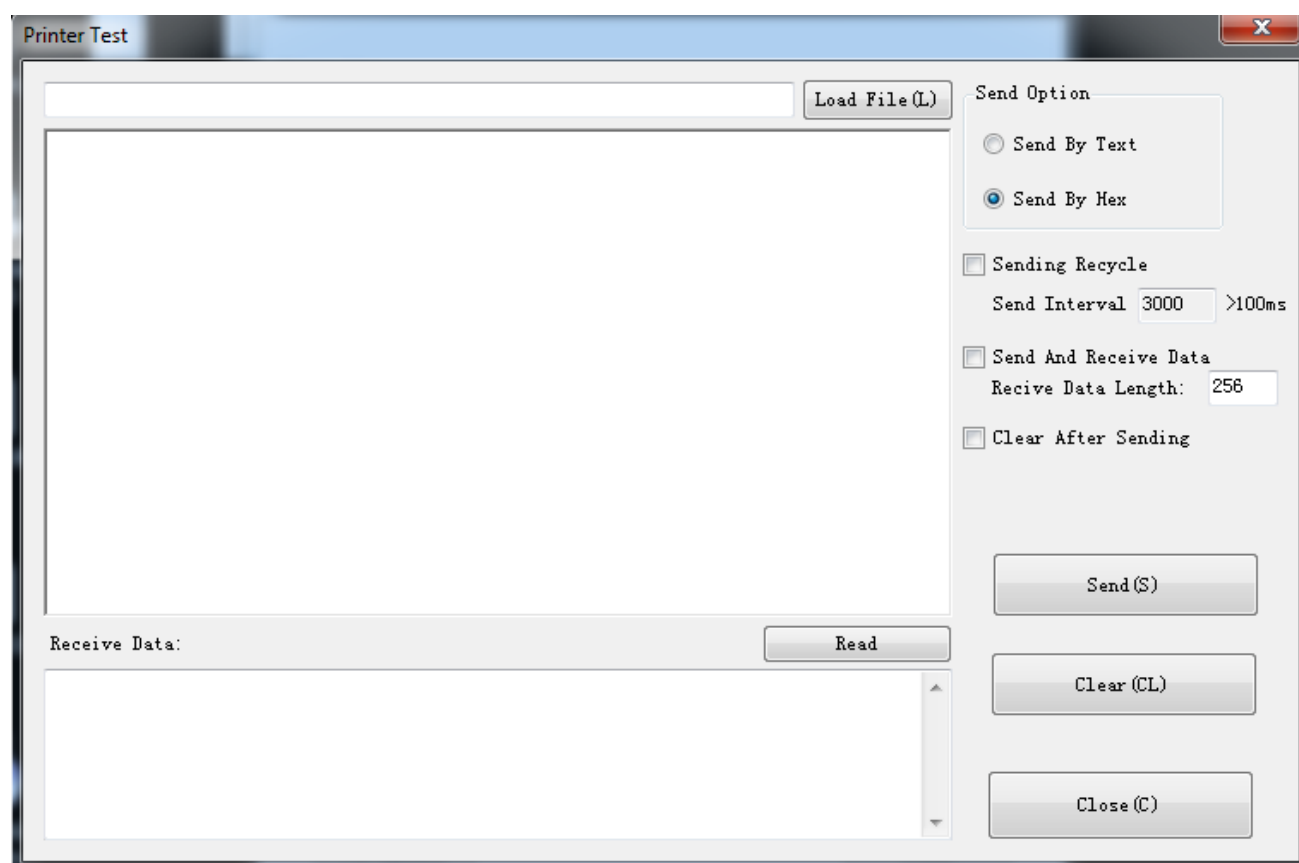
☐ Clear After Sending

Send(S)

Clear(CL)

Close(C)

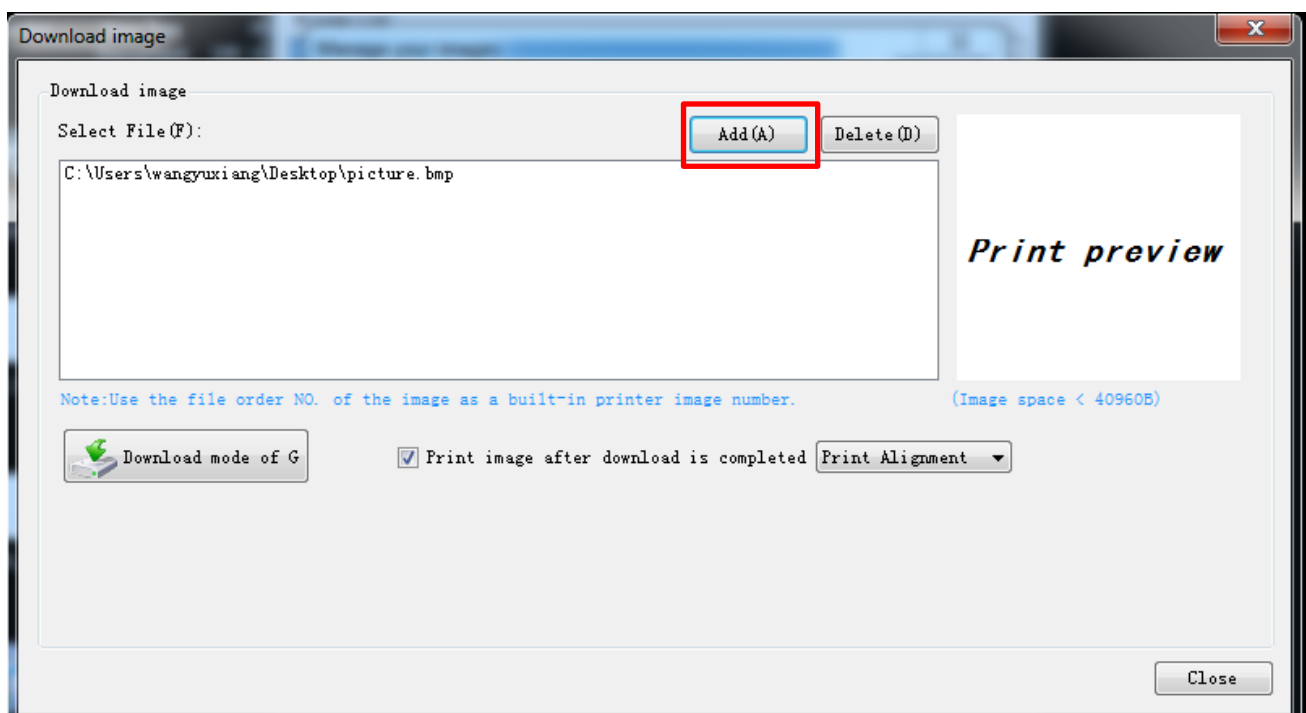
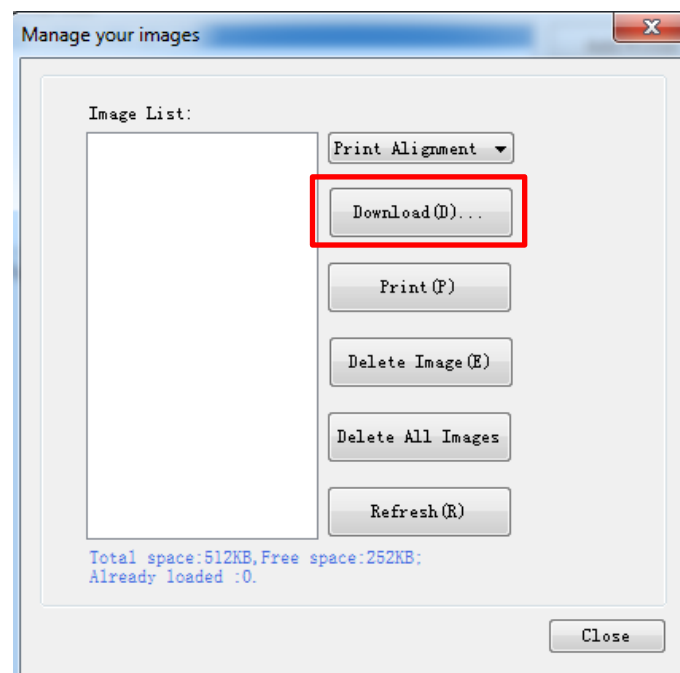
2) Click “Send by Hex”, input the content. (Convert text to HEX or send ESC command)



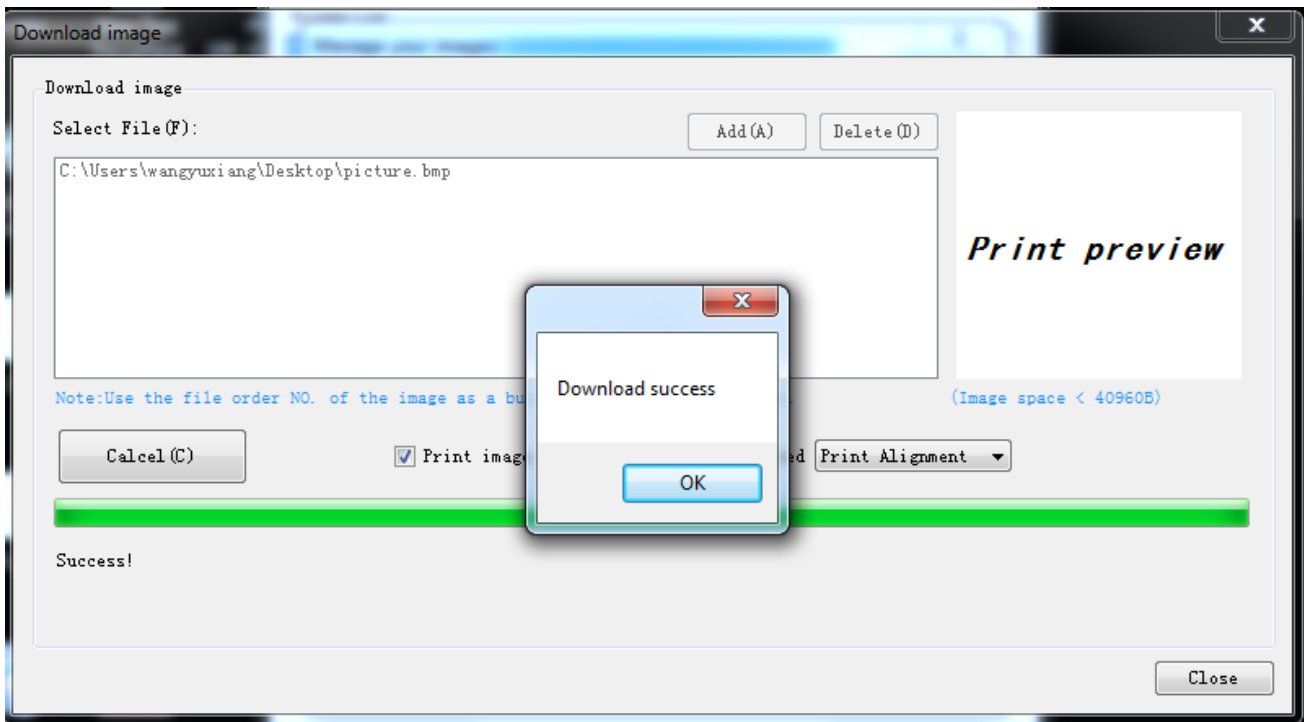
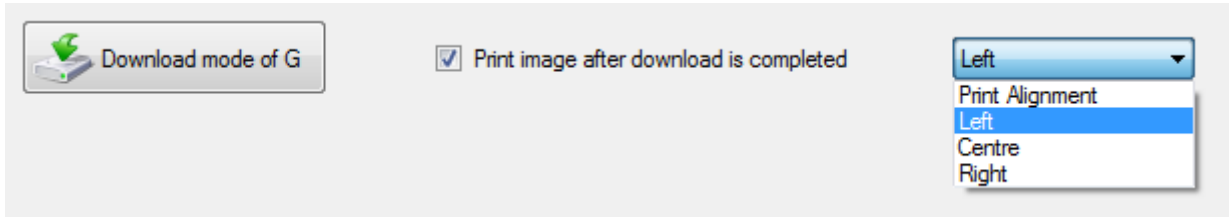
8.2.2.3 Manage Images

- Download image

Click "Download" and then click "Add" 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)



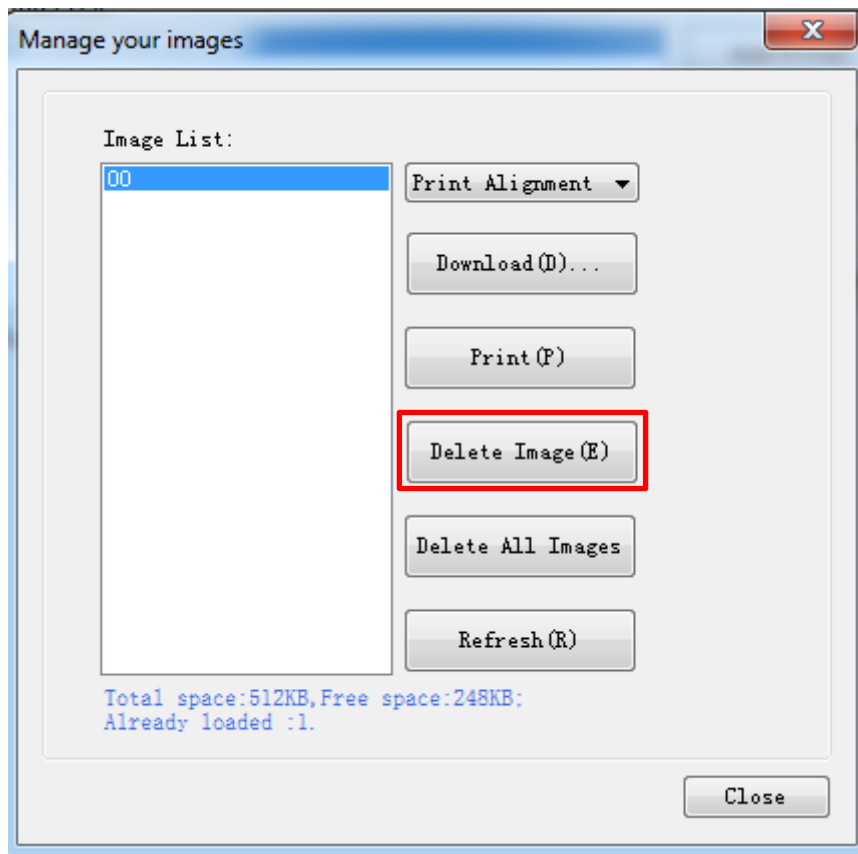
- Select the print location, center, left, and right. (Such as, center print).



⚠ Note: Total memory 512K, each bitmap should be below 40K.

- Delete Image

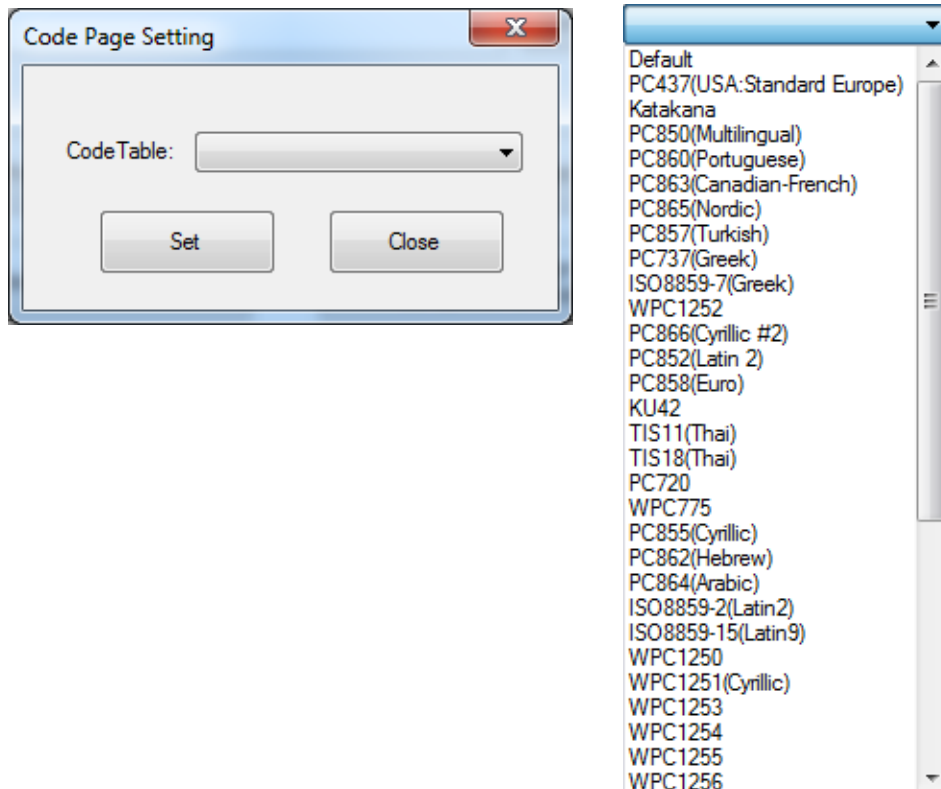
 **Note:** each time click "Download mode of G", an image list number will be generated.



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.

8.2.2.4 Code Page Setting

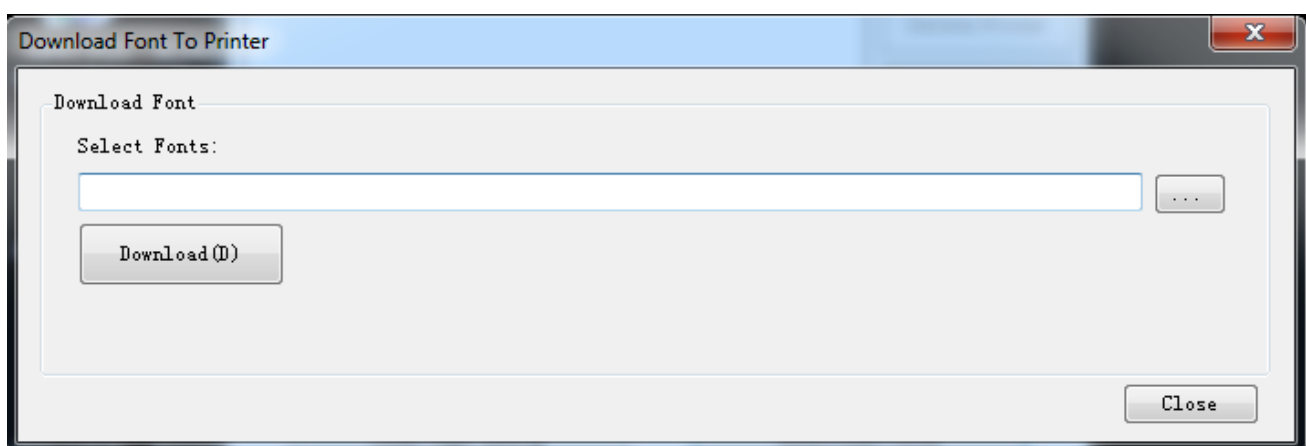
Select the code page from the list and click "Set".



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

8.2.2.5 Download Font to Printer

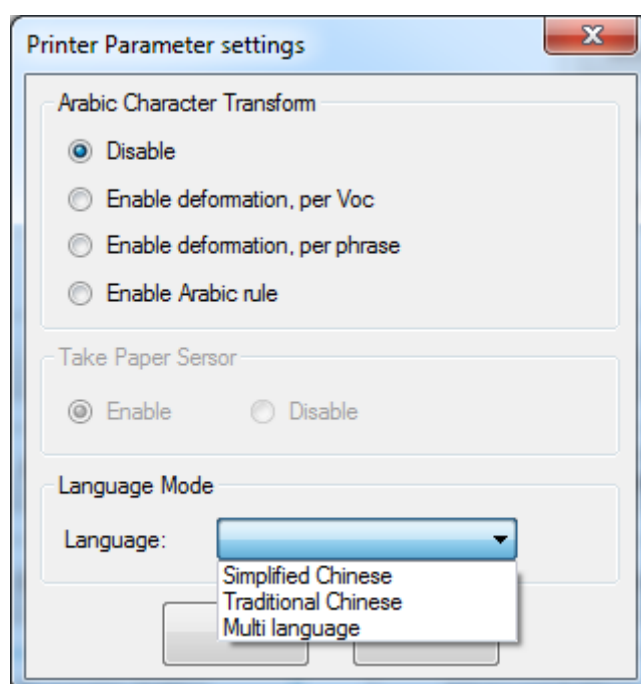
Select the font from the existing file and click "Download".



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

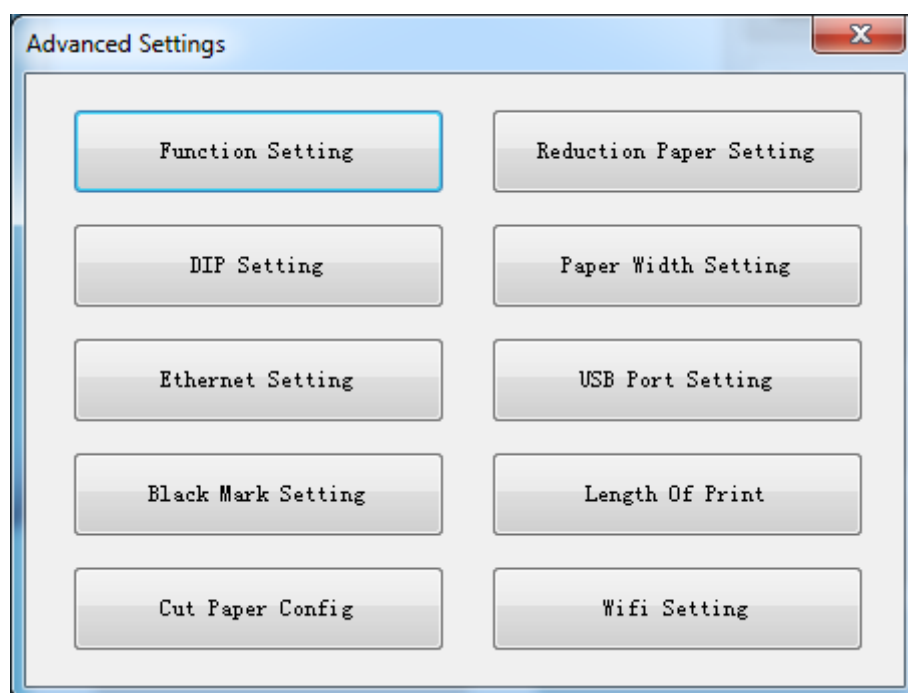
8.2.2.6 Parameter Setting

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



8.2.2.7 Advanced Setting

The advanced settings contain the following items:



■ Function Setting

Function Settings

Long Beeping After Cutting

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

Setting

Printer Buzzer

Beeping times: (1-63)

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

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

External Buzzer

Beeping Times: (1-63)

Buzzer Volume

☐ Very Low
 ☐ Low
 ☒ Standard
 ☐ Loud

Setting

Power-on Model

Chinese Mode(Z)

English Mode(U)

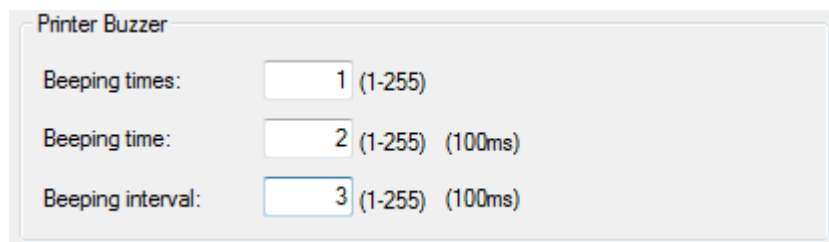
Close(C)

- **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

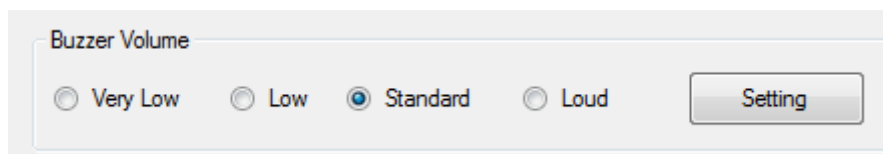
Beeping times: (1-255)

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

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

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

- **Buzzer Volume:**



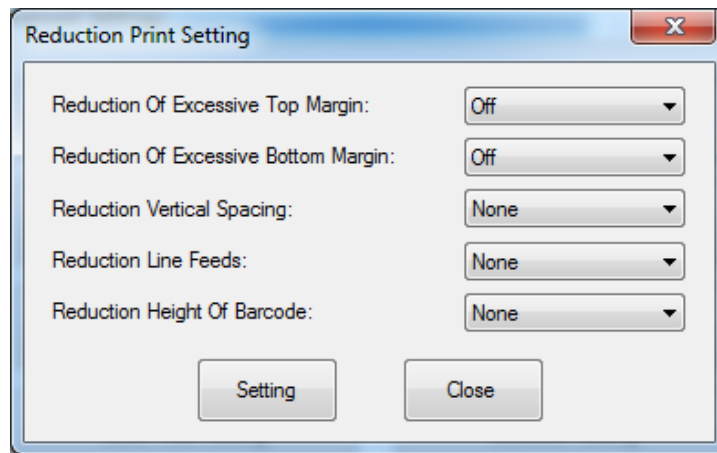
Buzzer Volume

☐ 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).

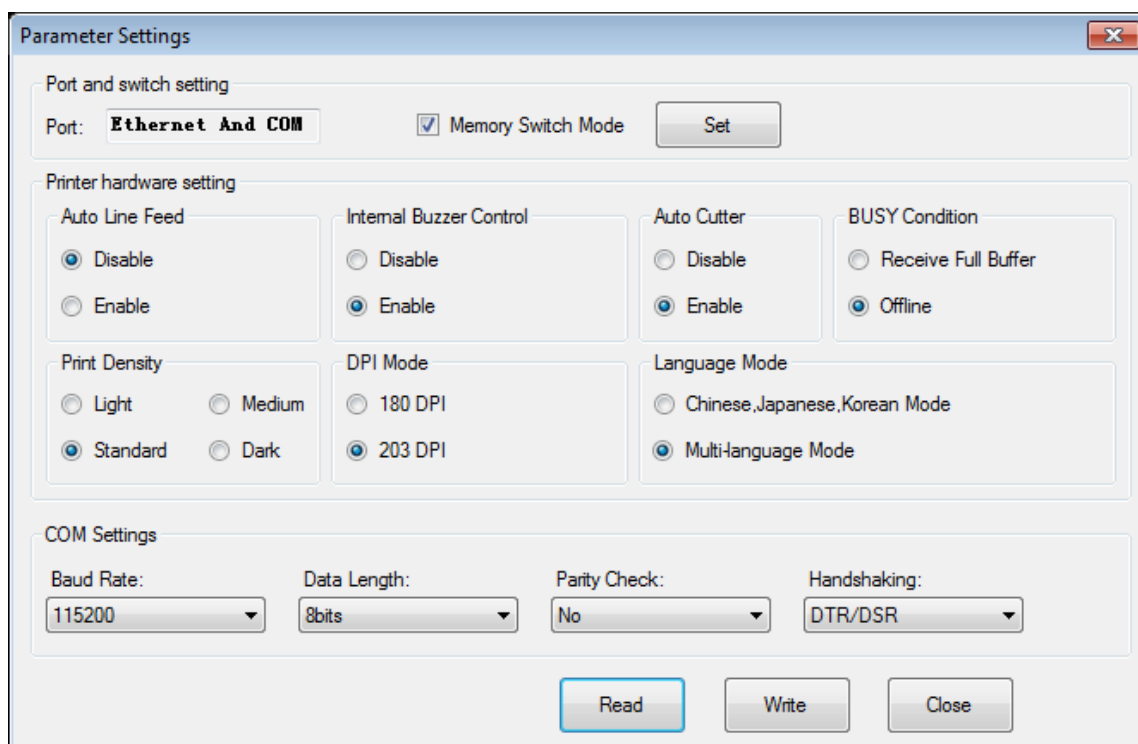
■ Reduction Paper Setting

Select the items and click "Setting".



■ DIP setting

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



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

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 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 from 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

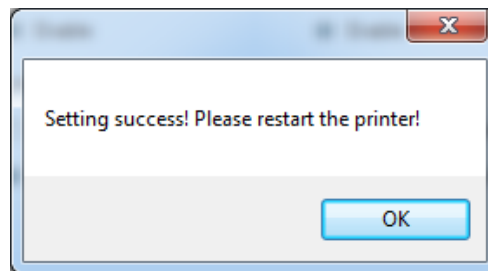
ADDC: DTR/DSR

- **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:

BP-206 | USB | BP-206 |

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

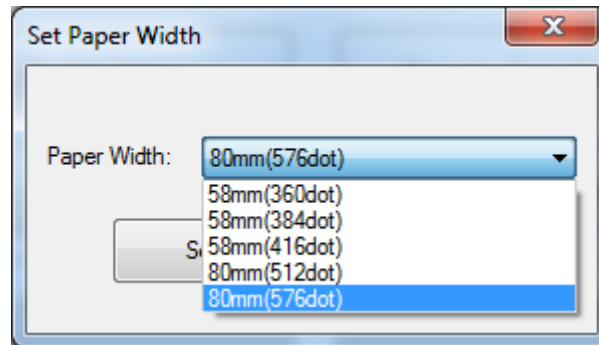
Parity: None

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. _____

■ Paper Width Setting

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

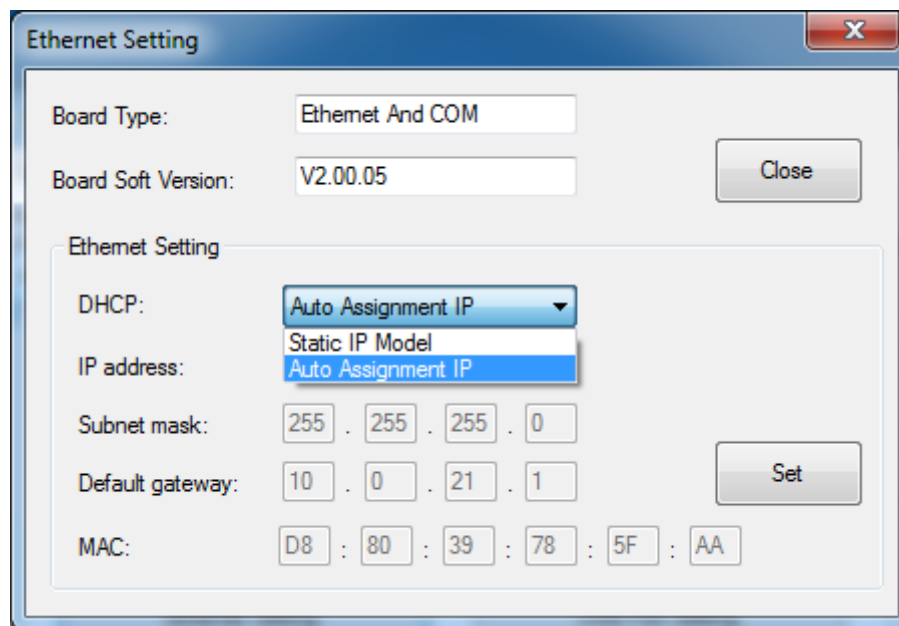


■ Ethernet Setting

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.



- 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:

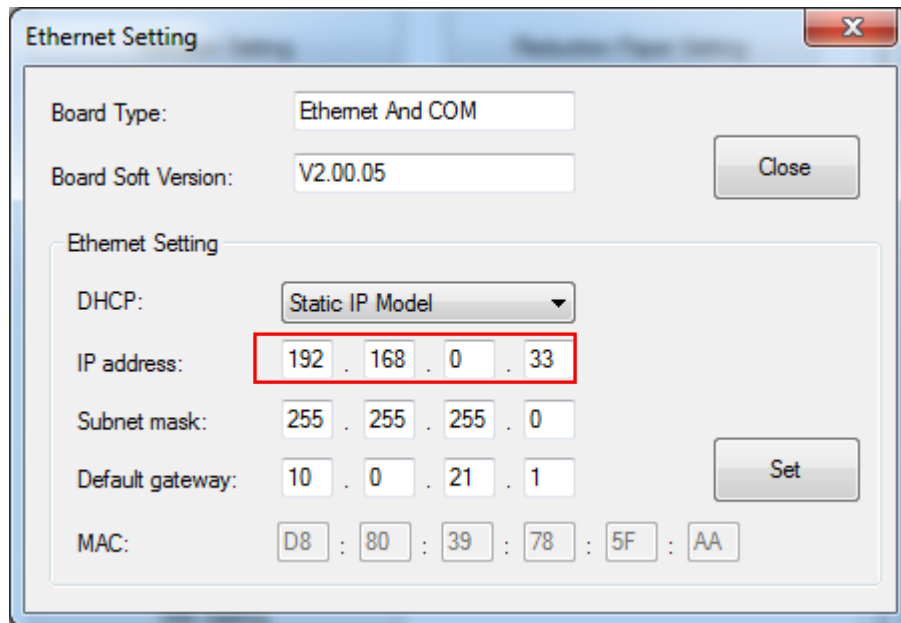


Figure ■ Printer IP Address

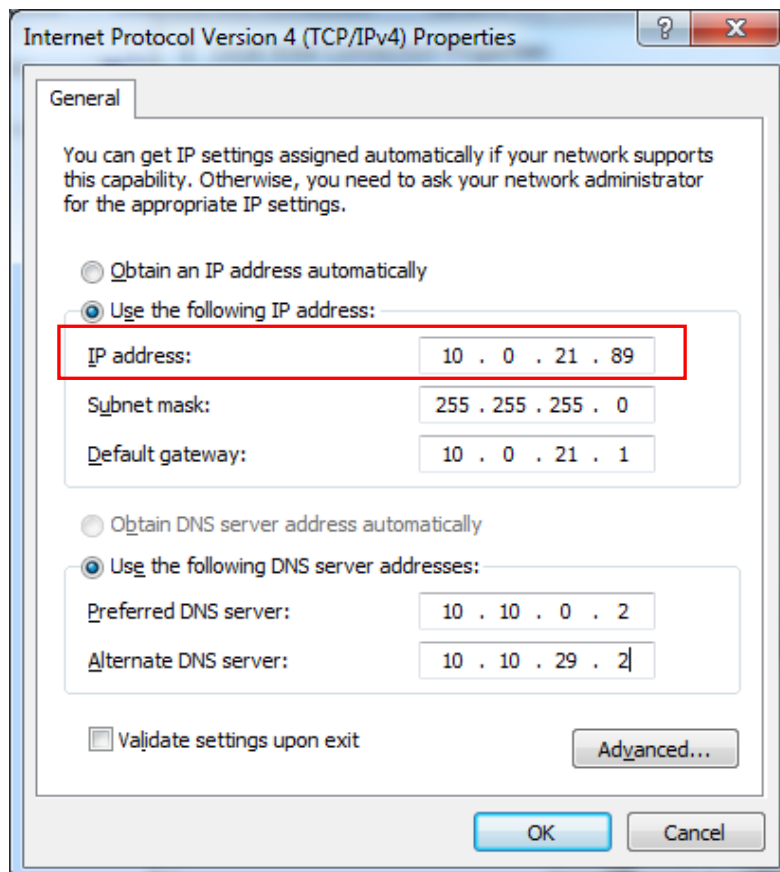


Figure ■ Host IP Address

2) Set the same network segment.

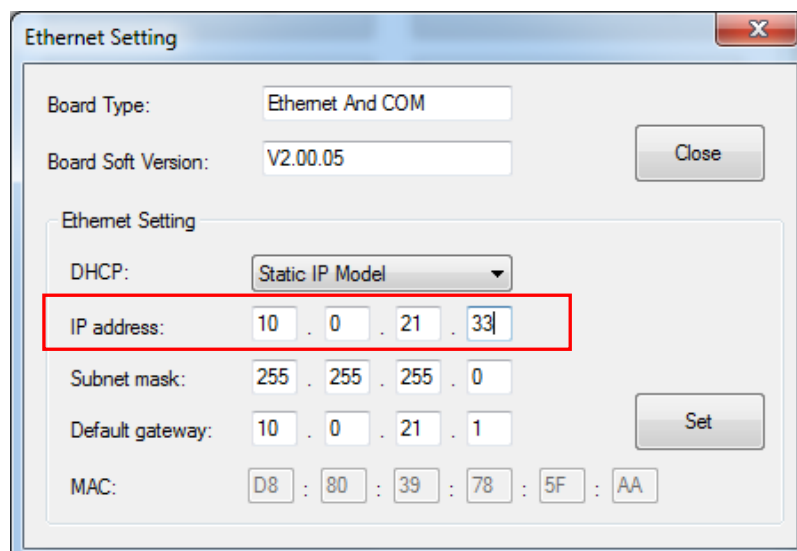
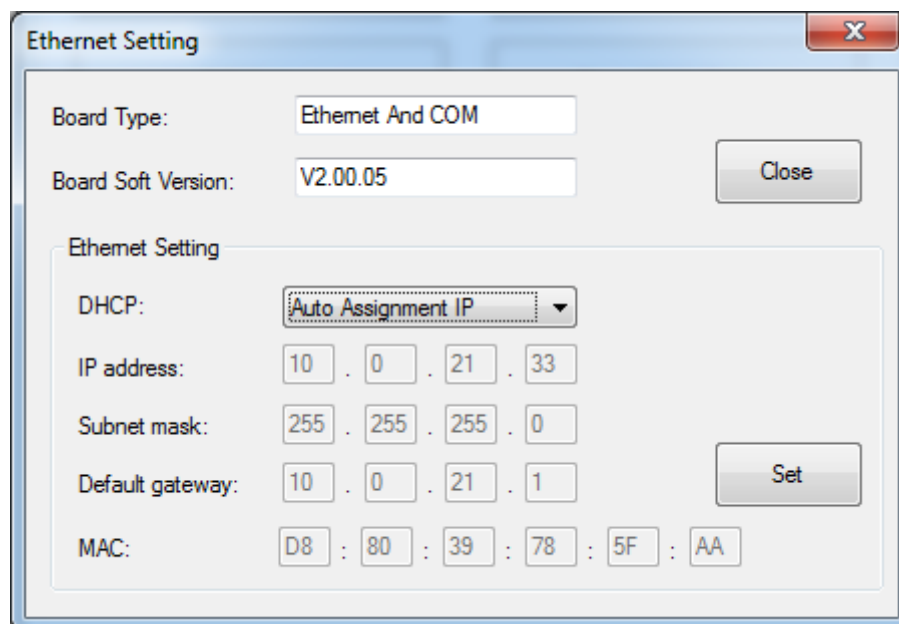


Figure ■ Printer IP Address

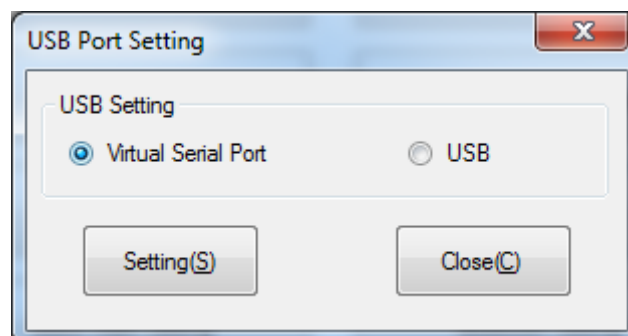
- Auto Assignment IP

This mode automatically assigns the IP address to the printer.

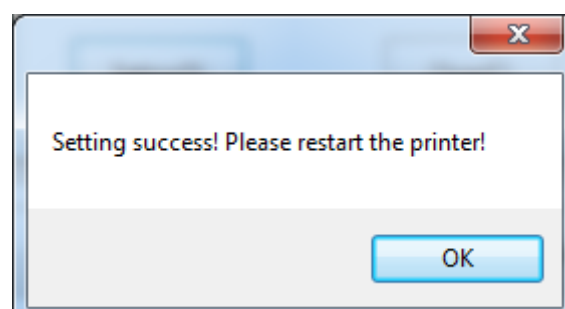


When the settings are complete, click "Write", then restart the printer.

■ USB Port Setting

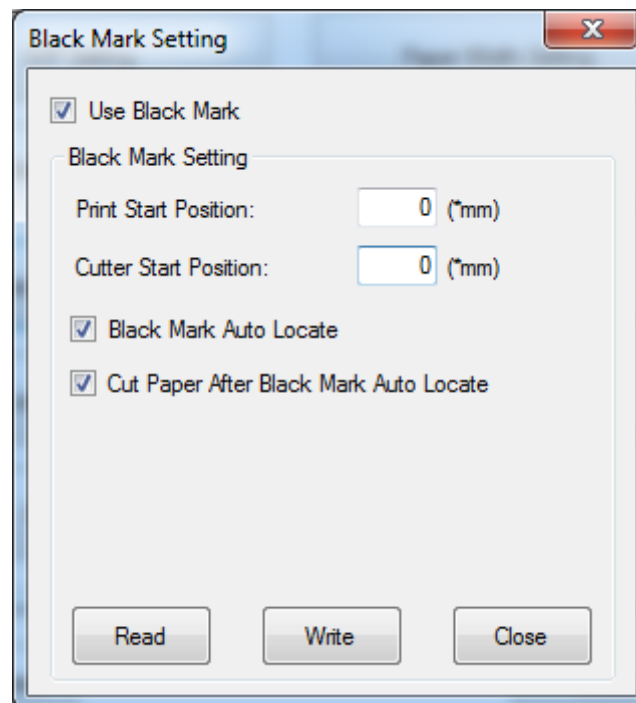


Click "Virtual serial port" setting and restart the printer.



■ 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 ($\geq -25\text{mm}$)

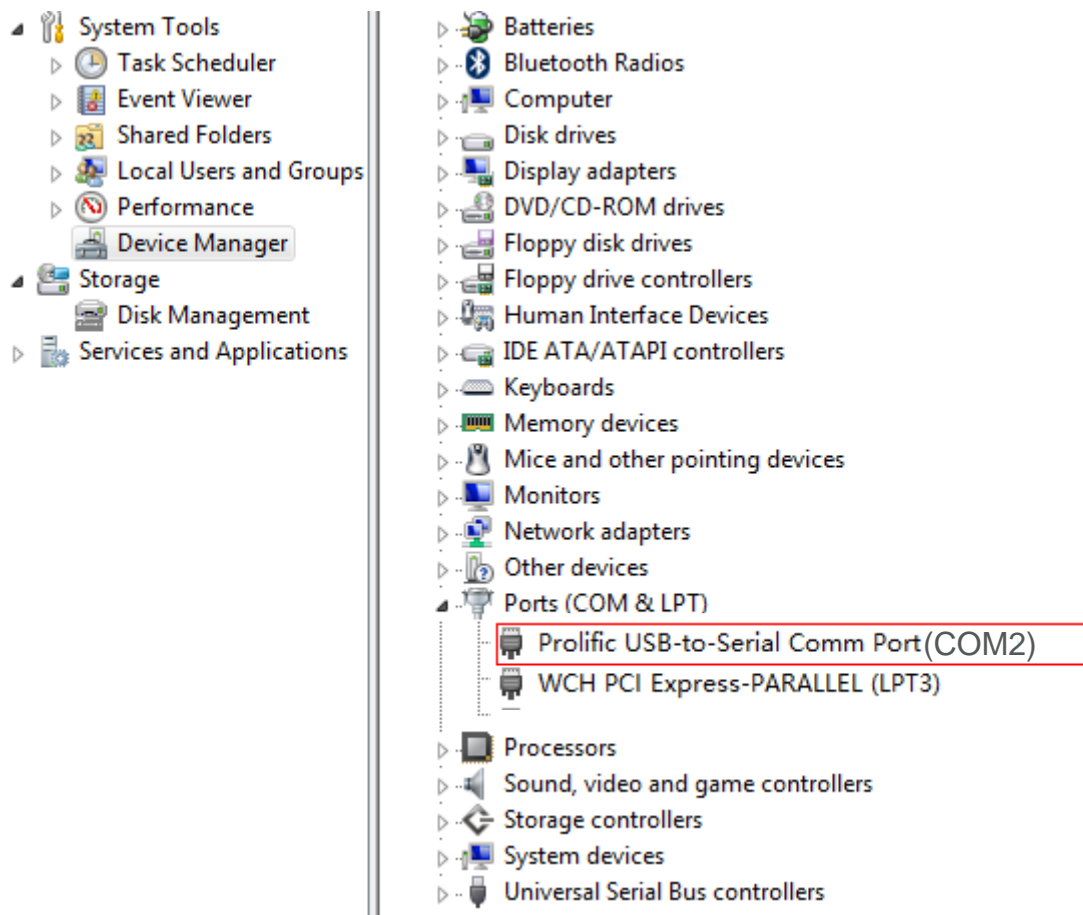
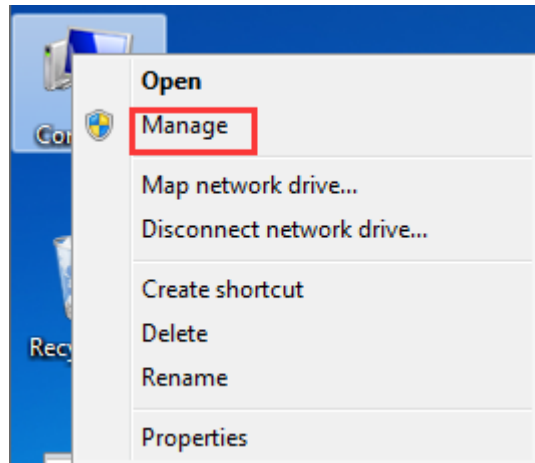
$\geq -25\text{mm}$: the position of cutter is at least 25mm from the bottom edge of the black mark paper.



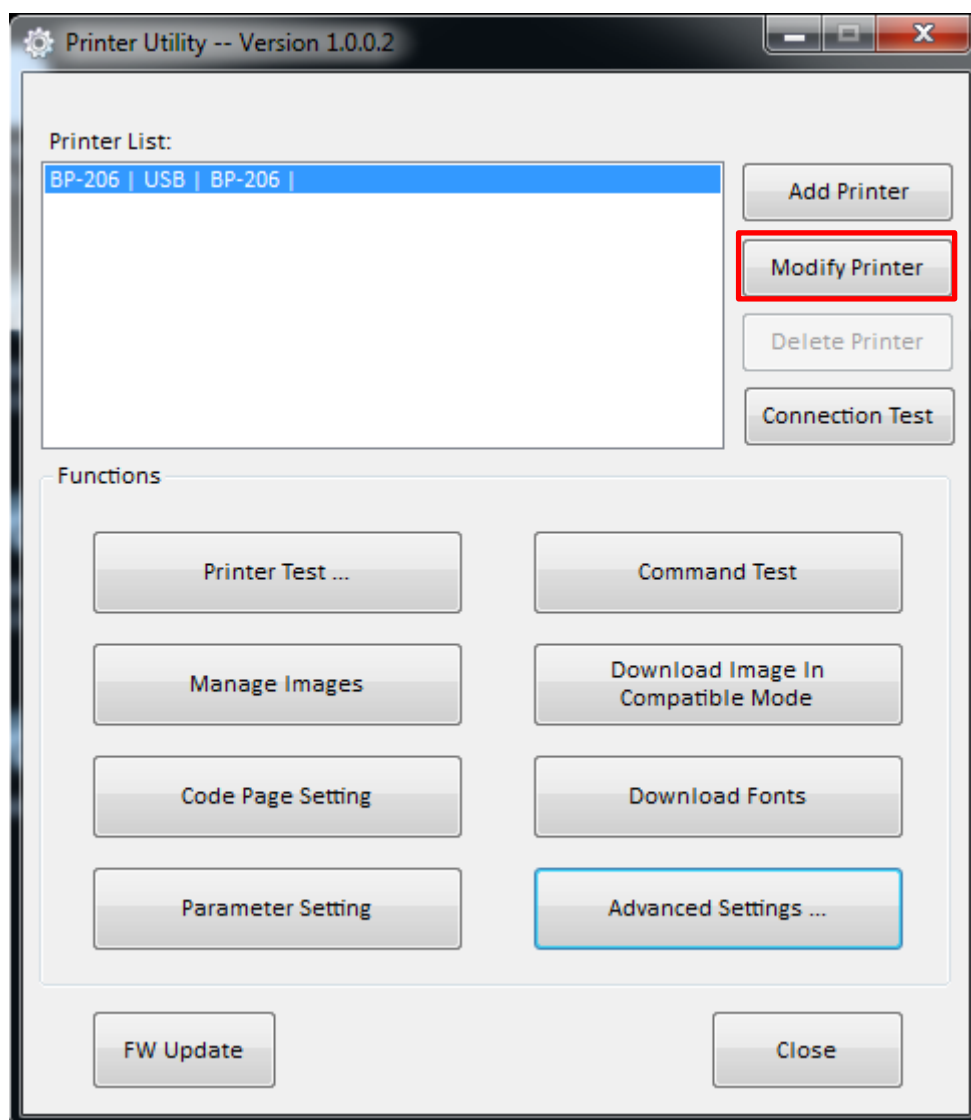
Note: This setting only applies for the printers with function of black mark.

- **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

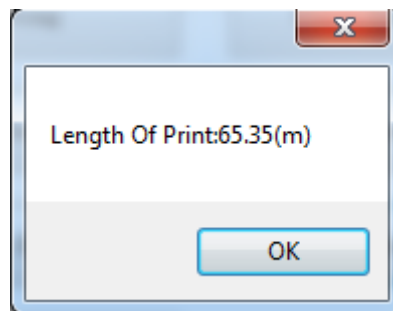
Baud rate: 19200

Parity: None

Stop Bits: 1

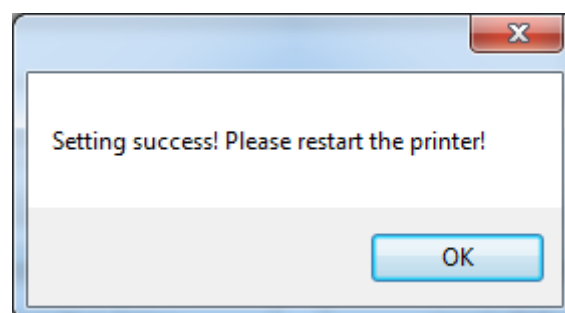
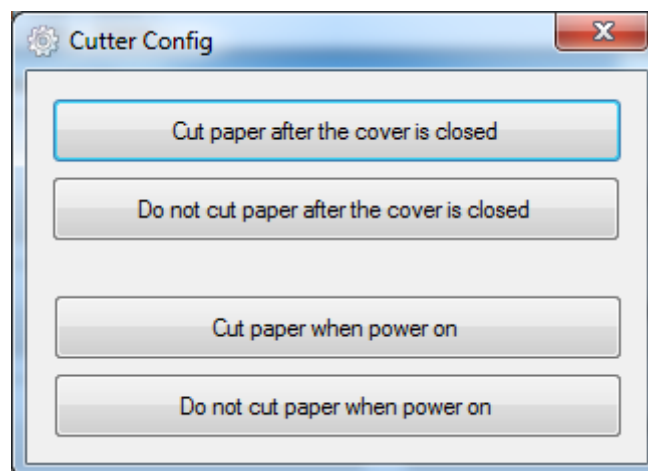
Notes:

■ Length of Print



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

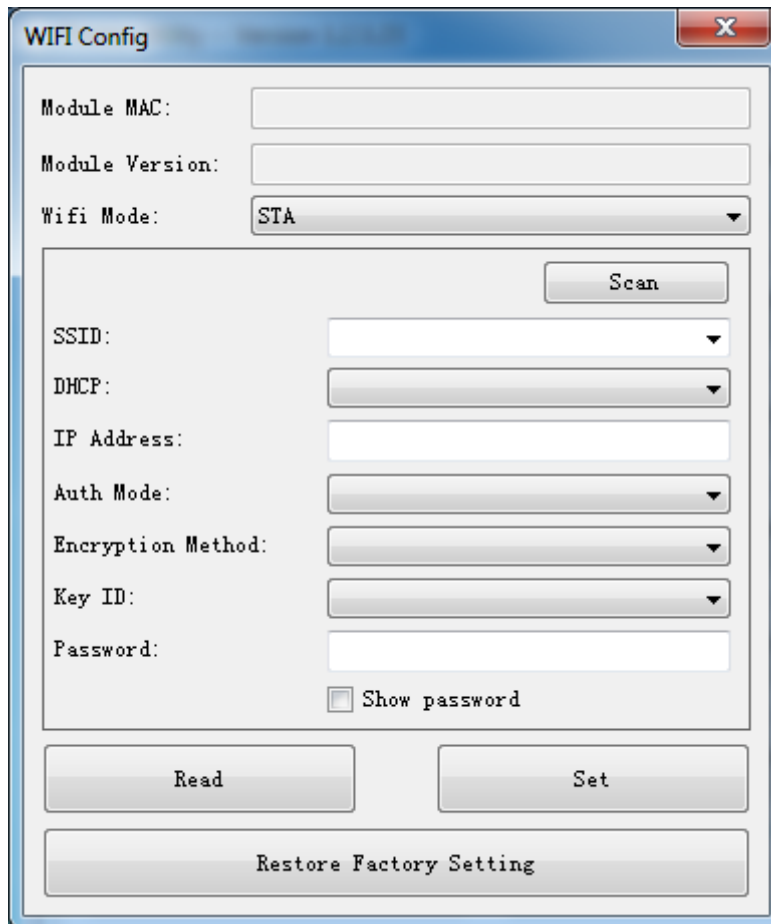
■ Cut Paper Config



- 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.

■ WiFi Setting

The following steps take BP-206 for example, and the setting is only available for those models with Wi-Fi function.



The image shows a 'WiFi Config' window with the following fields and controls:

- Module MAC:
- Module Version:
- Wifi Mode:
- Scan:
- SSID:
- DHCP:
- IP Address:
- Auth Mode:
- Encryption Method:
- Key ID:
- Password:
- ☐ Show password
- Read:
- Set:
- Restore Factory Setting:

1. Click "Read"



Printer mode is divided into AP mode and TA mode, default AP mode.

- 2.

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

- Module MAC:** 88:83:5D:E4:DE:13
- Module Version:** 4.0.7
- Wifi Mode:** AP (selected from a dropdown menu)
- SSID:** POS_WIFI
- IP Address:** 192.168.1.1
- Channel:** 6 (selected from a dropdown menu)
- Encryption Mode:** WPA2PSK (selected from a dropdown menu)
- Password:** 12345678
- ☒ Show password
- Buttons:** Read, Set, and Restore Factory Setting.

- 1) When using AP mode, the printer as a Wi-Fi. The PC or mobile devices can be connected to this Wi-Fi (printer) for setting parameters.

SSID: Printer name

IP Address: Printer IP address

Encryption Mode: WPA2PSK, Open

With WPA2PSK encryption, other devices need to enter a password to connect to this printer.

When using OPEN, the printer does not need to enter a password for an open Wi-Fi to connect to the printer.

- When the setup is completed, connect the mobile devices to the printer. Open the browser and enter the printer IP address (for example: 192.168.1.1)
- Enter the password, click “Join”.

Enter the password for “POS_WIFI”

[Cancel](#) **Enter Password** [Join](#)

Password ●●●●●●●●

- Open a browser, and enter the IP address.

192.168.1.1 [Cancel](#)

Baidu Search

🔍 192.168.1.1

On This Page (no matches)

Find “192.168.1.1”

- Enter the Wi-Fi password.

Admin Password

●●●●●●

[Forget password?](#)

LOGIN

- Setting the parameters.



| | |
|------------------|-------------------|
| MID | F11AMIM13_B4 |
| Software Version | V4.0.7_T1 |
| WiFi Work Mode | AP |
| AP mode | |
| SSID | POS_WIFI |
| IP Address | 192.168.1.1 |
| MAC Address | 88:83:5d:e4:de:13 |
| STA Mode | |
| Router SSID | |
| Signal Strength | |
| IP Address | |
| MAC Address | |

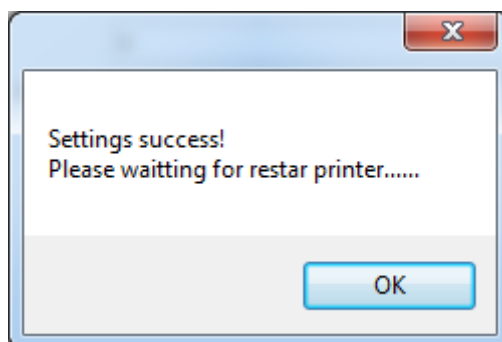
2) When using the STA mode, the printer as a terminal. The PC or mobile devices and printer need to be on the same LAN.

- Click "Scan" to scan the Wi-Fi. Click on the SSID expansion item after scanning, and select the Wi-Fi you want to connect to. Set the Auth Mode, Encryption Method and Key ID according to the Wi-Fi.

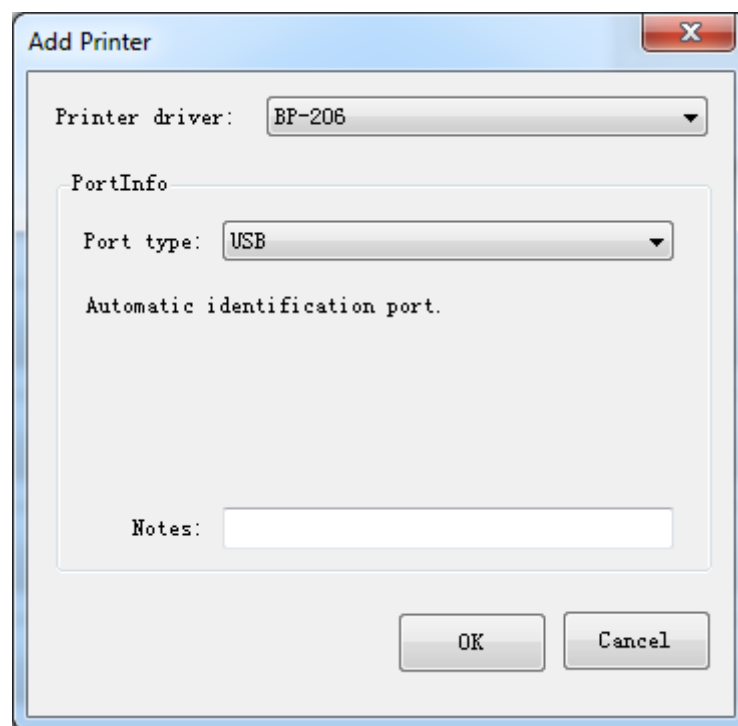
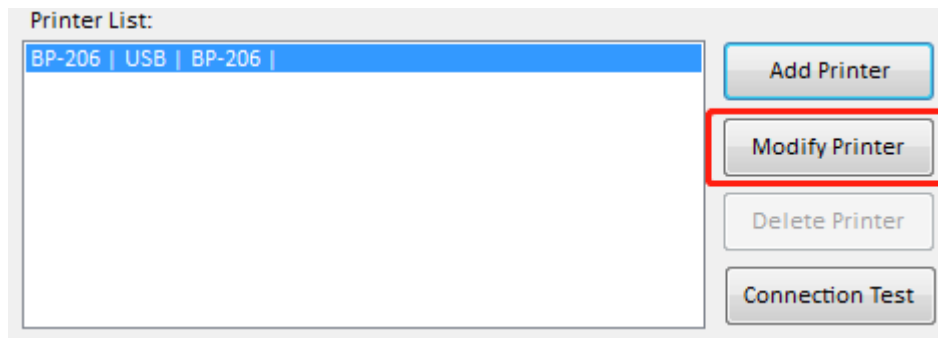
The image shows a 'WIFI Config' dialog box with the following fields and options:

- Module MAC: 88:83:5D:E4:DE:13
- Module Version: 4.0.7
- Wifi Mode: STA (dropdown menu)
- Scan button
- SSID: prtftct456 (dropdown menu)
- DHCP: Disable (dropdown menu)
- IP Address: 192.168.1.1
- Auth Mode: SHARED (dropdown menu)
- Encryption Method: WEP (dropdown menu)
- Key ID: 2 (dropdown menu)
- Password: asdfghjkl
- ☒ Show password
- Read button
- Set button
- Restore Factory Setting button

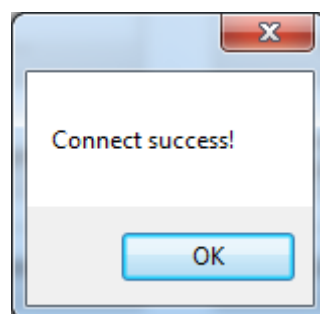
- Click "Set".



- When the setup is completed, click Modify Printer, select "TCP/IP", and set the IP address to the printed IP address. Click "OK".

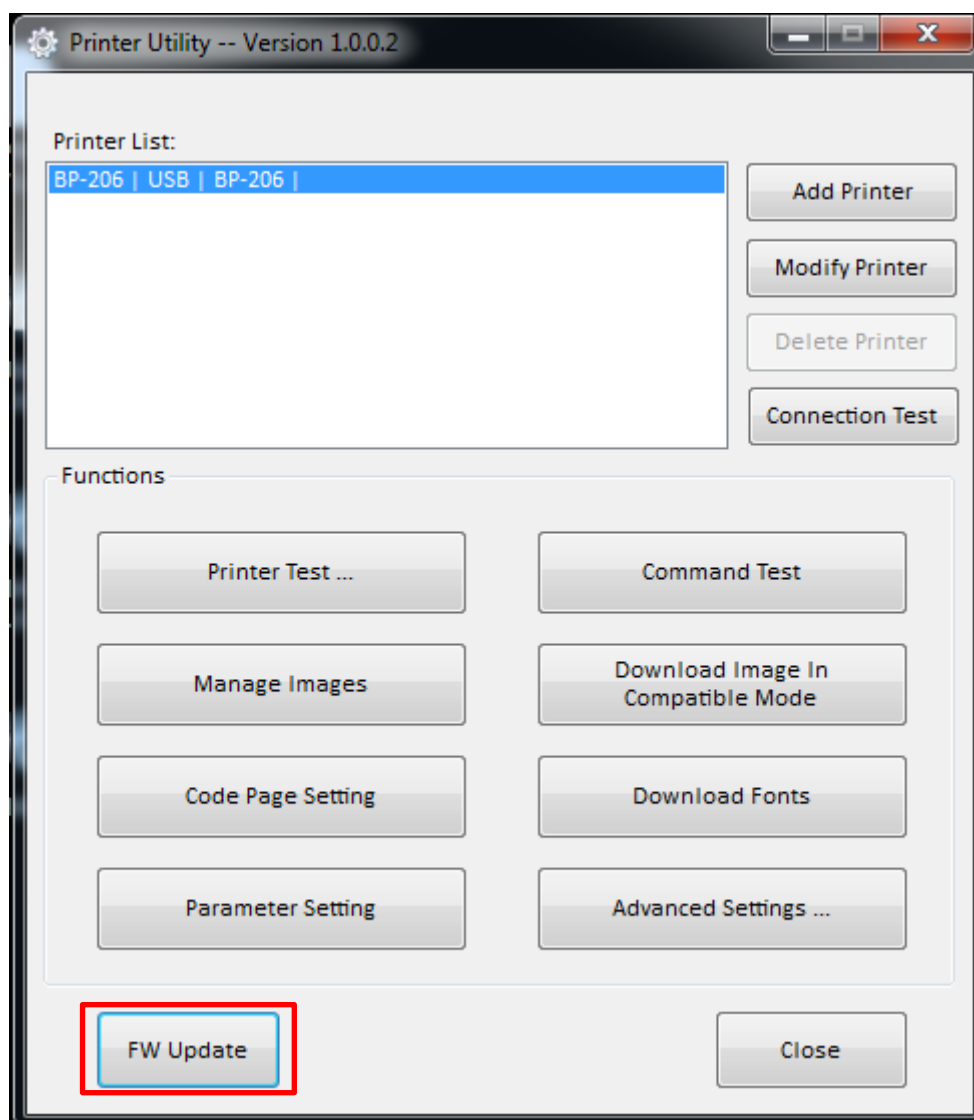


- Click "Connect Test" to check if the settings were successful.

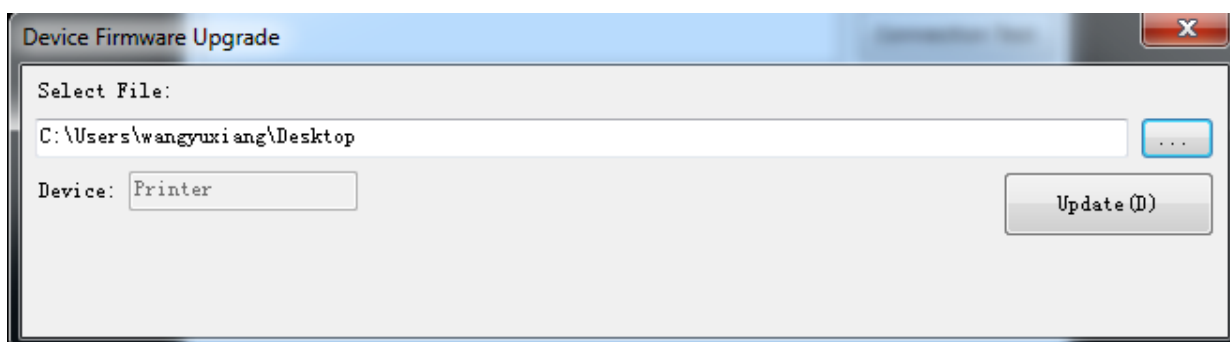
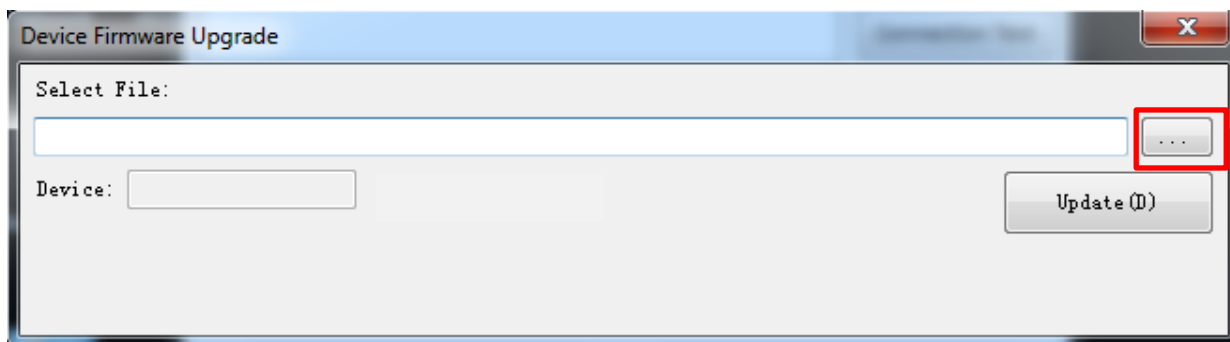


8.3 Firmware Update

1) Click “FW Update”.

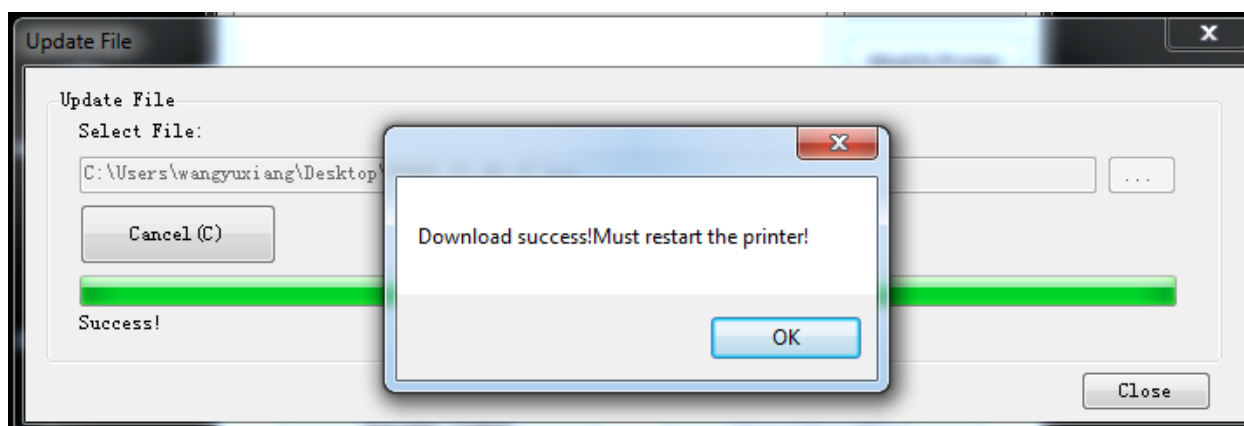


2) When the device appears "Printer", select the Dfu file.



3) Click "Update".

4) Update success.



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

9 WINDOWS DRIVER INSTRUCTION

9.1 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.

9.2 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 SP1 (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
- Microsoft Windows Server 2008 SP2(32 bit/64 bit)
- Microsoft Windows Server 2003 R2 SP2(32 bit/64 bit)

9.3 Windows Driver Preparation

The Windows Driver is included in the enclosed CD.

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

e.g. BAYAMAX Printer Driver-v-2.7.0.0.exe

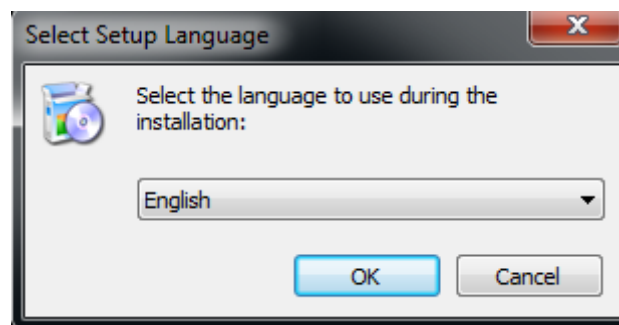
9.4 Windows Driver Installation



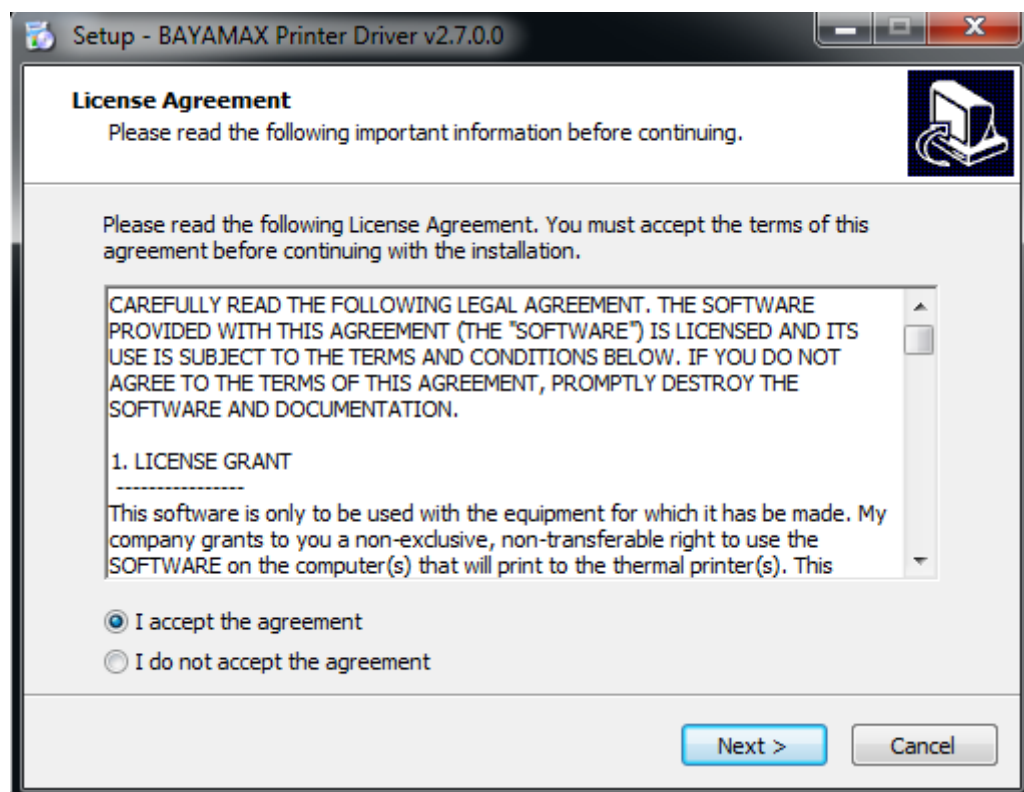
Warning:

Under different operating system, the screen has slight difference. Please operate it according to the tips. Take BP-206 (Windows 7) as example.

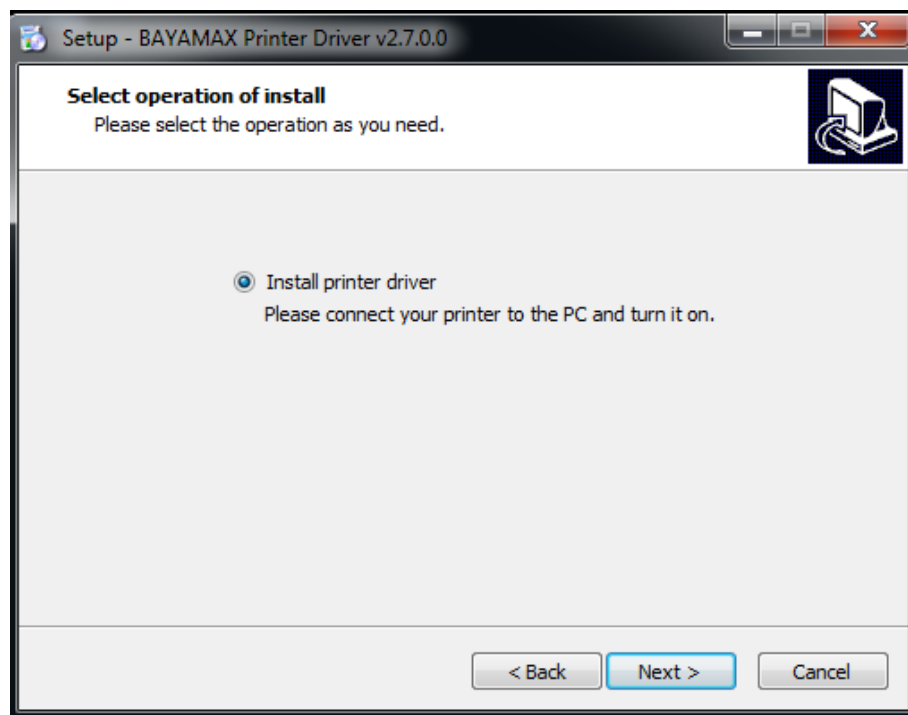
1. Double click Windows Driver.
2. Choose "English" in "Select Setup Language", and click "OK".



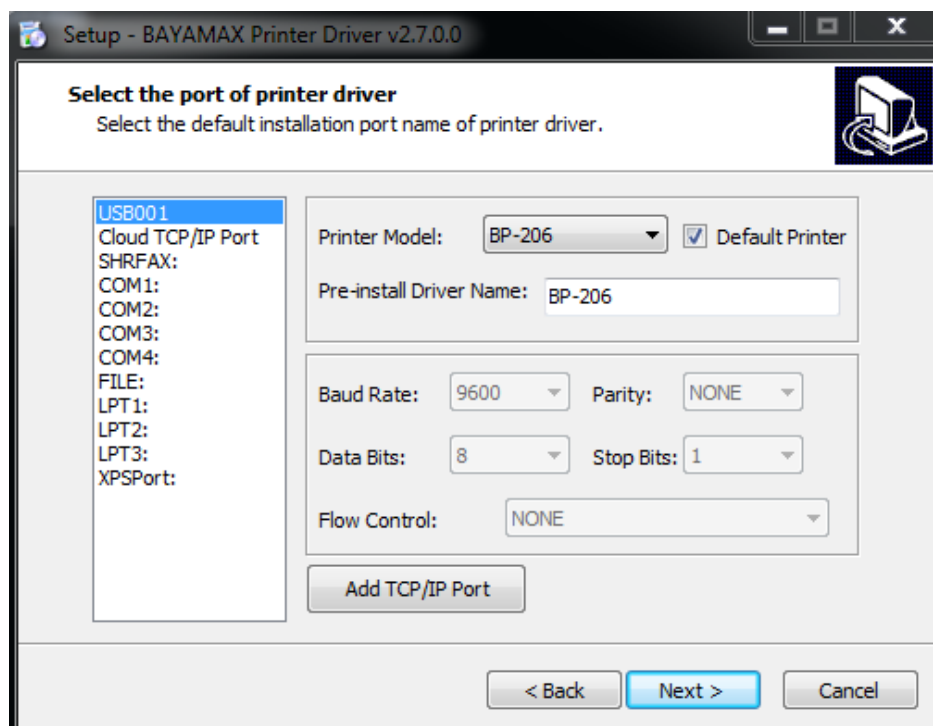
3. Choose "I accept the agreement" and click "Next".



4.Click “Next”

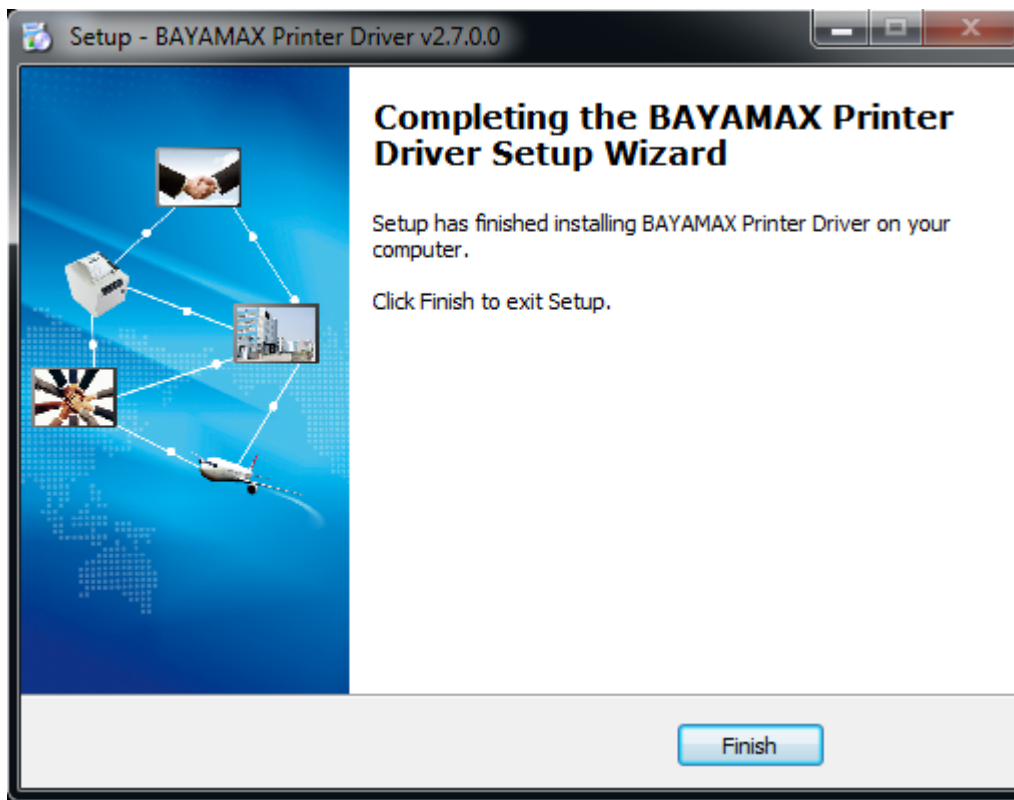


5.Choose the matched type and port (USBxxx is for USB port, COMx is for serial port, LPTx is for parallel port). Choose the type and port of driver, such as “USB001” as port. Click “Next”.



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.

6. Click "Finish". POS printer driver is installed successfully.



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



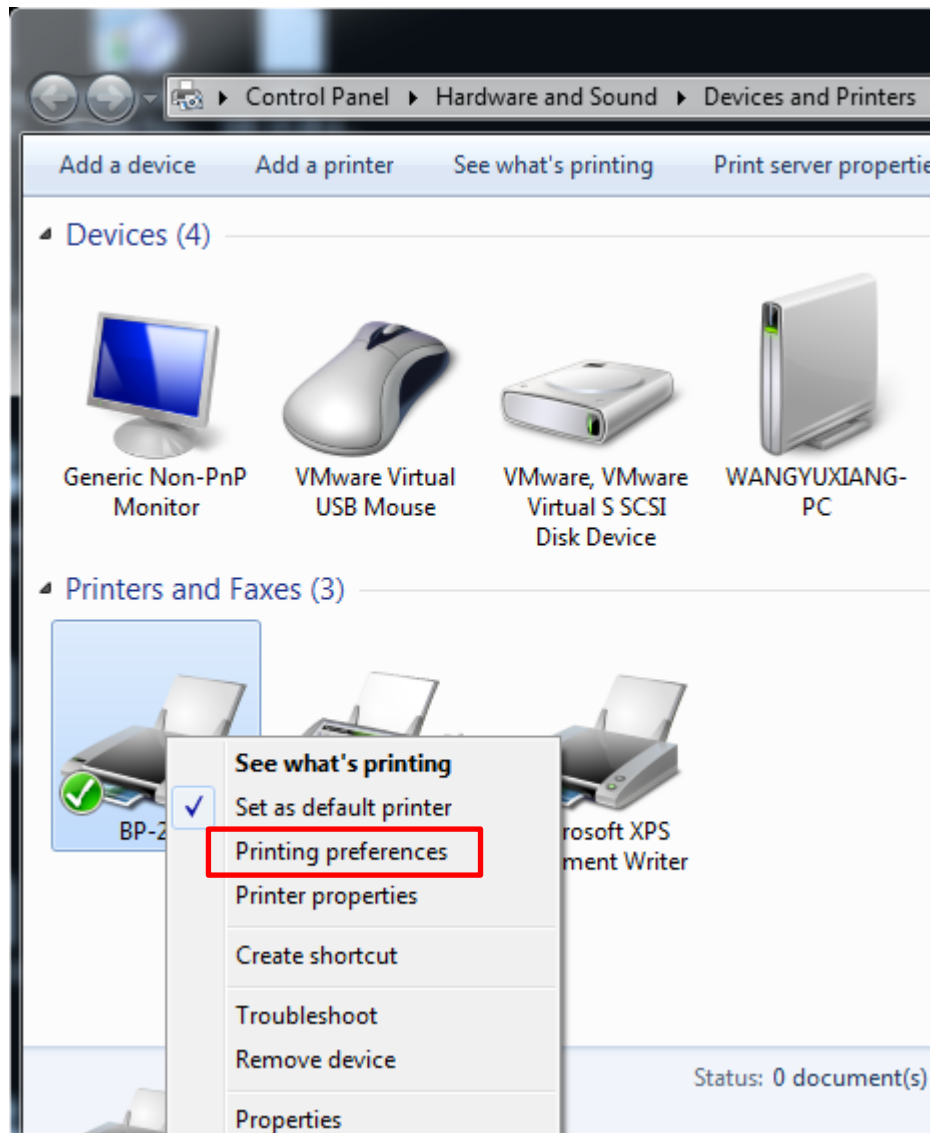
Note: *If you already installed the driver (No matter what kind of port), when you connect the printer with computer, it will create a USB port automatically.*



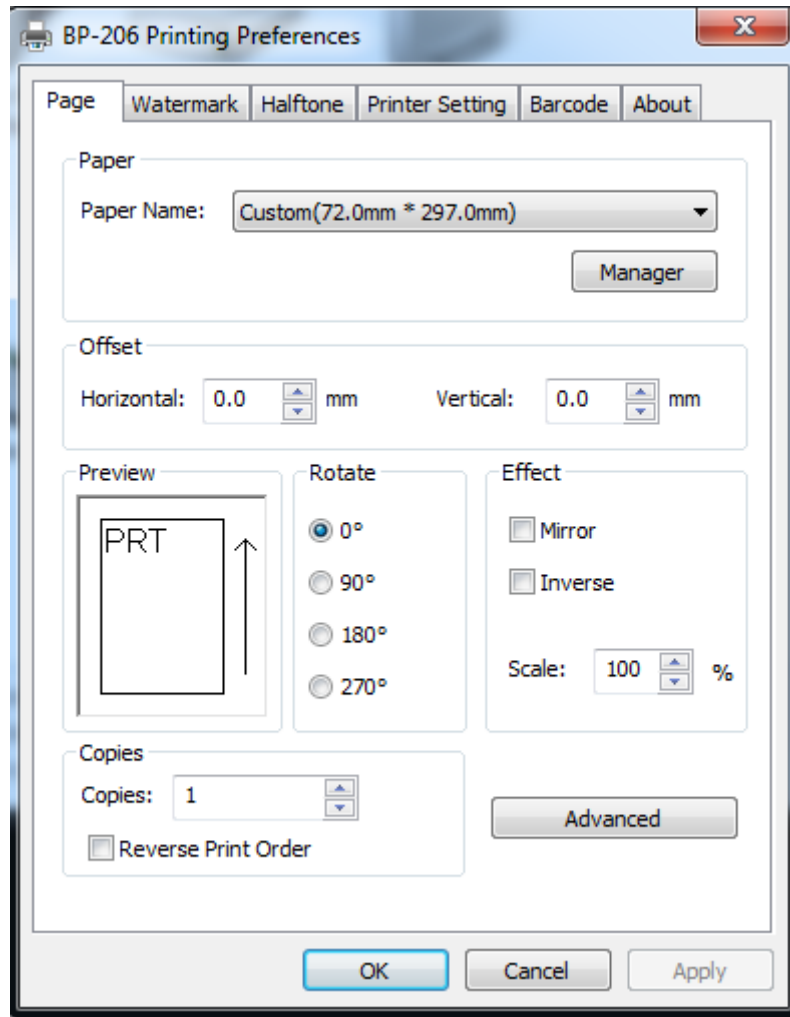
9.5 Detailed Windows Driver Setting

9.5.1 Printing Preferences

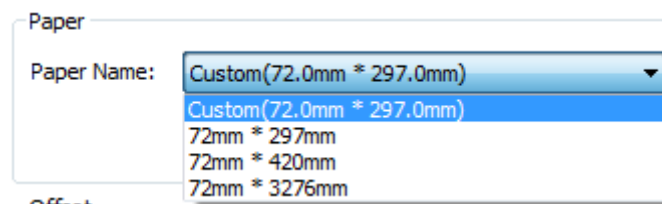
1. Click "Start" → "Devices and Printers". Right click "BP-206" and choose "Printing preferences".



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



1) Paper



2) Offset

Offset

Horizontal: mm Vertical: mm

- Click “Manager”, add or delete paper.

Custom Paper Manager

Custom Paper List

Delete

Custom Paper Options

Paper Name:

Paper Width: [10.0 - 600.0 mm]

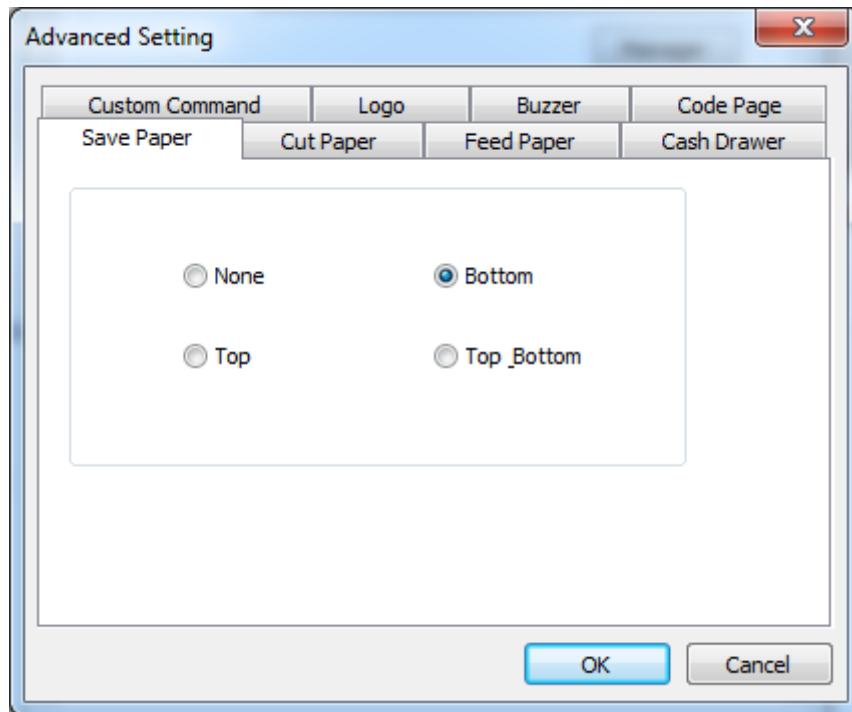
Paper Length: [10.0 - 3276.0 mm]

Save

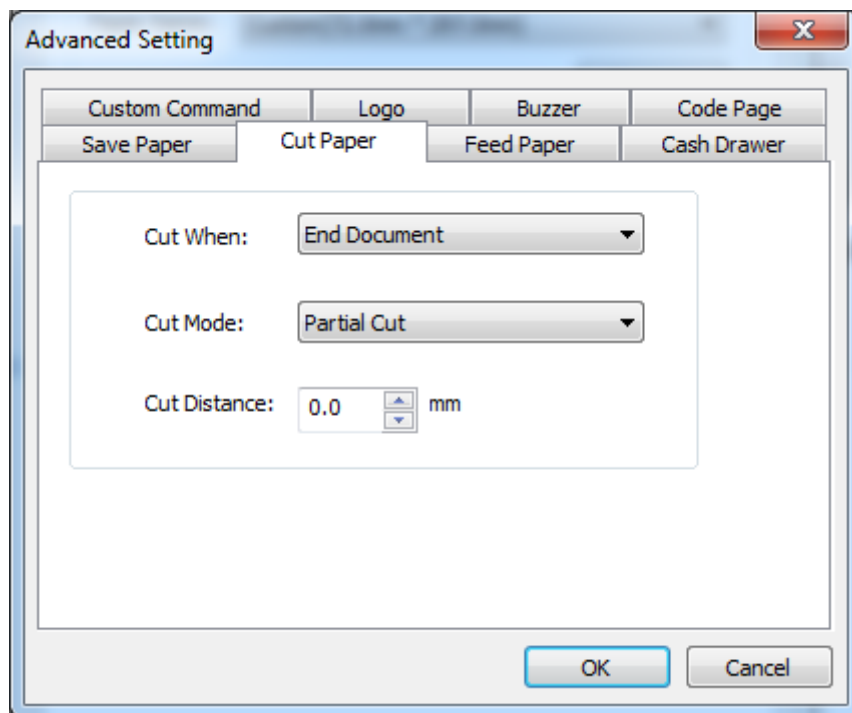
OK Cancel

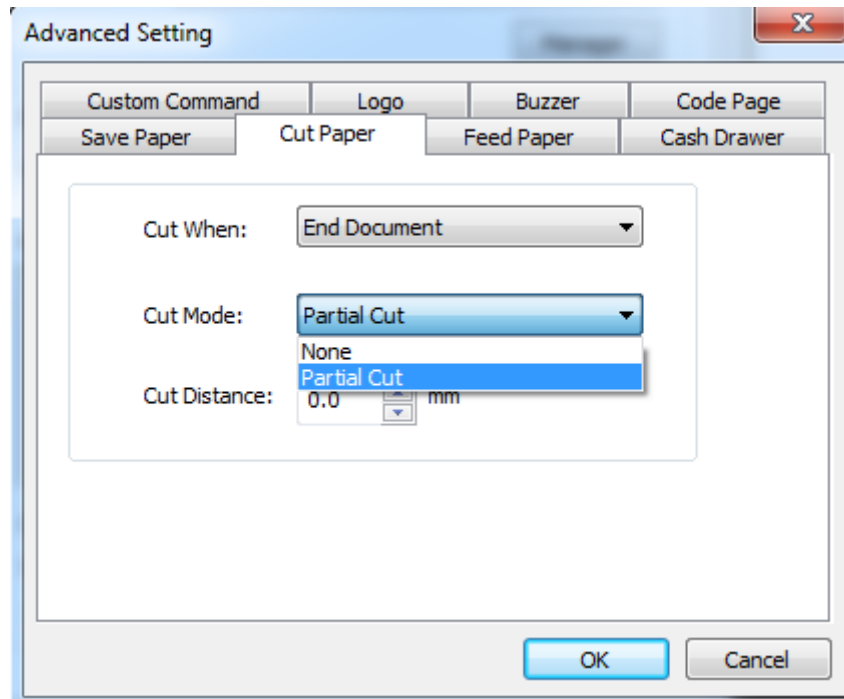
- Click “Advanced” to set “Save Paper”, “Cut Paper”, “Feed Paper”, “Cash Drawer”, “Custom Command”, “Logo”, “Buzzer”, “Code Page”.

① Save Paper



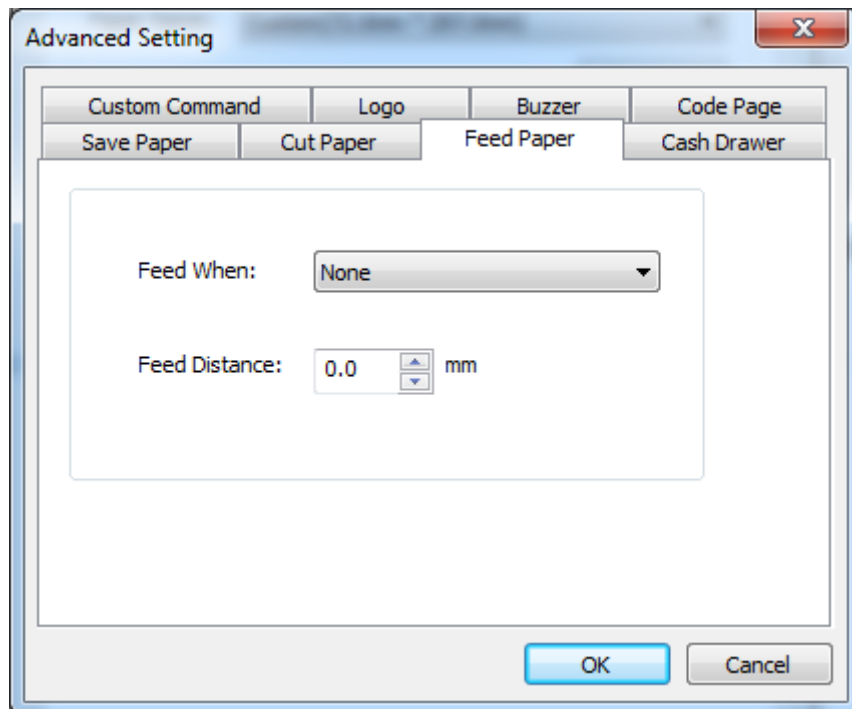
② Cut Paper





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

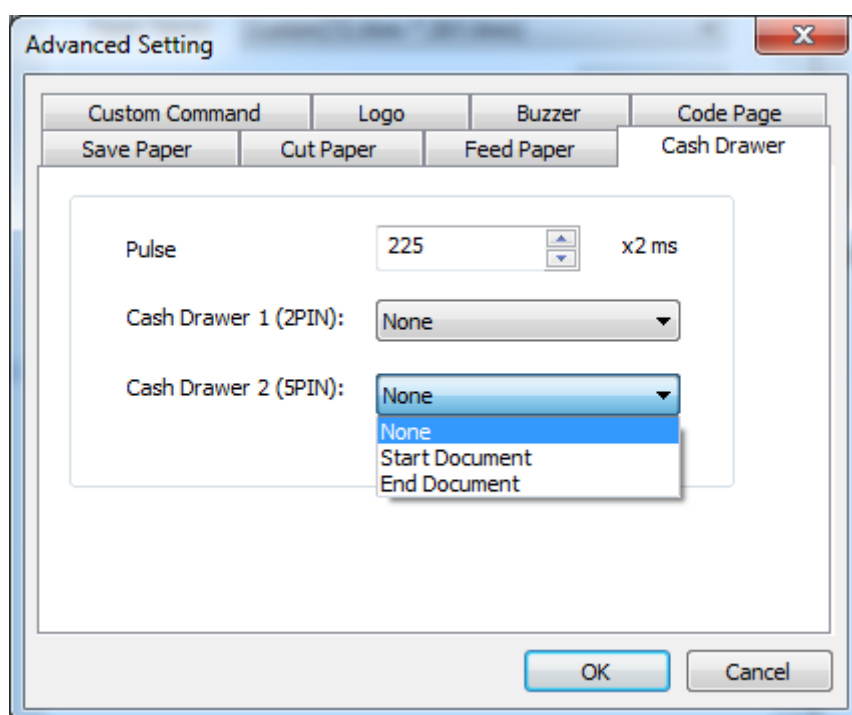
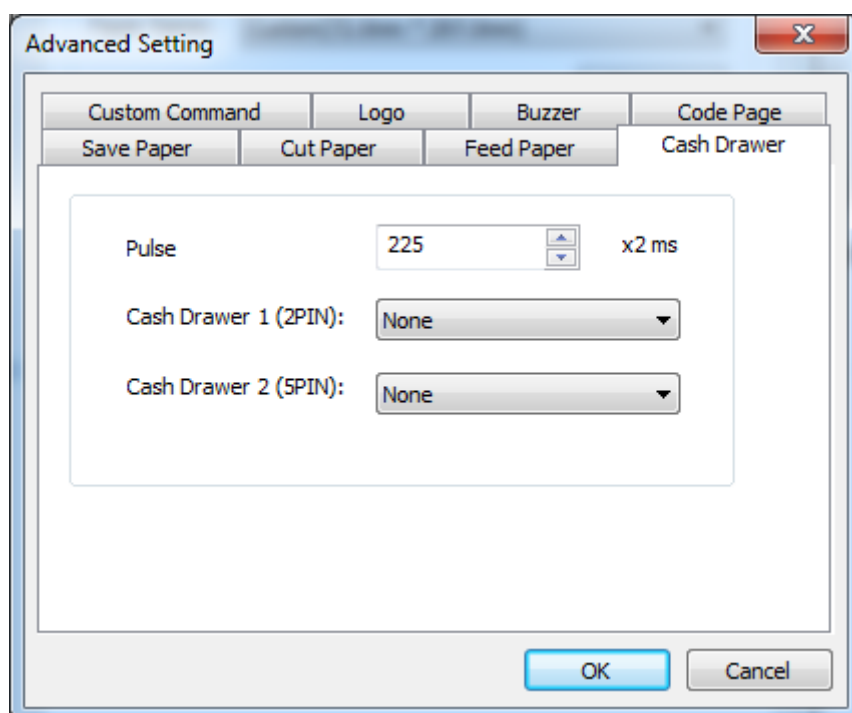
③ Feed Paper



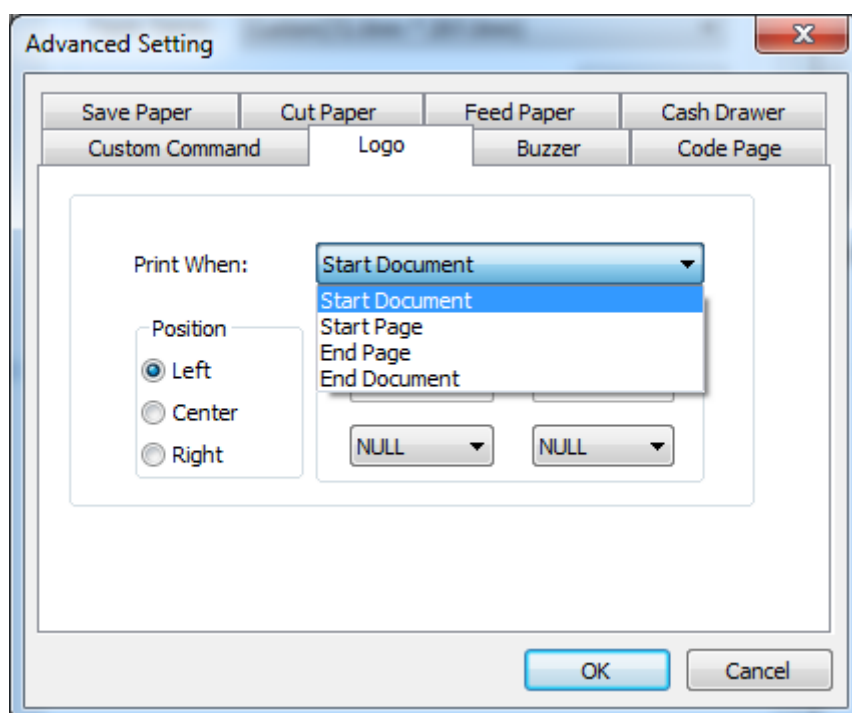
Feed Mode: Feed Automatically/Cut Automatically/Cut Automatically Per Page/None

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

④ Cash Drawer



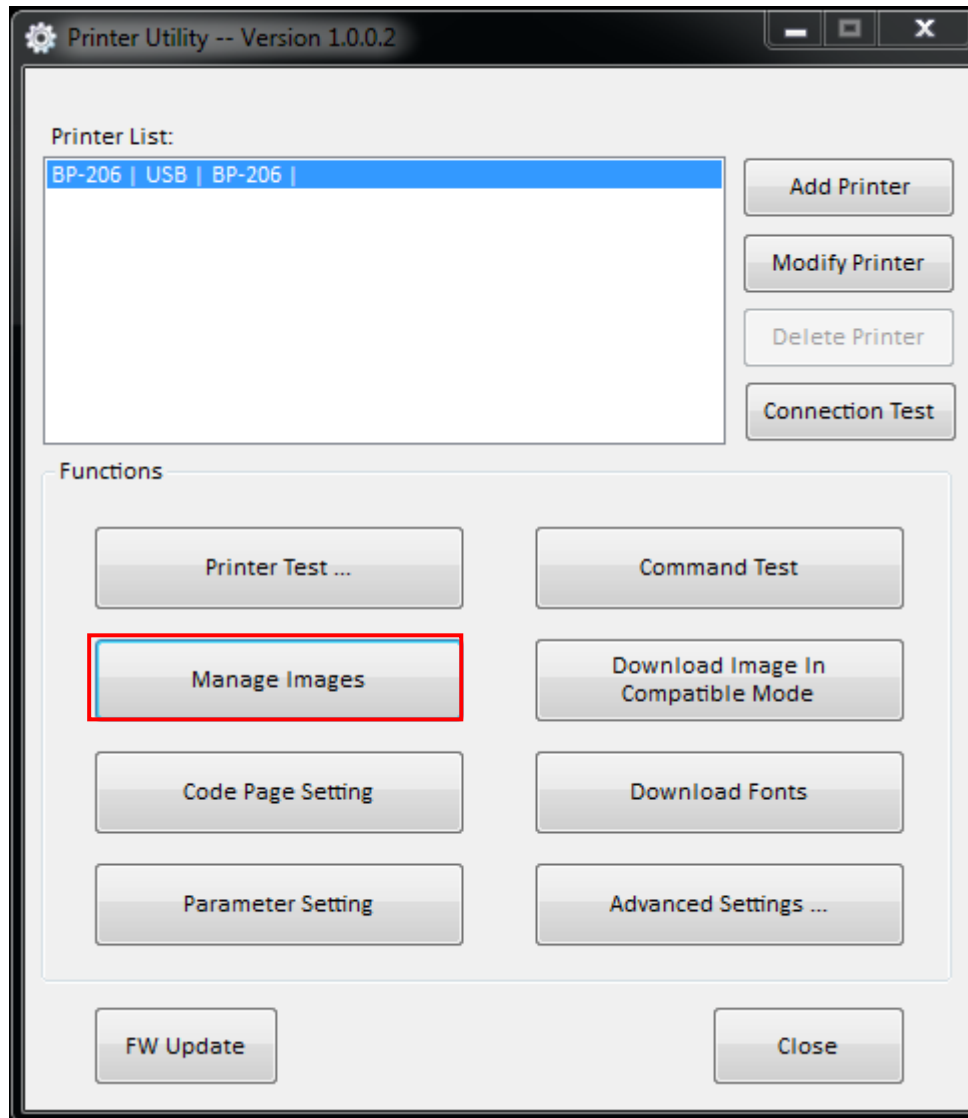
⑤ Logo



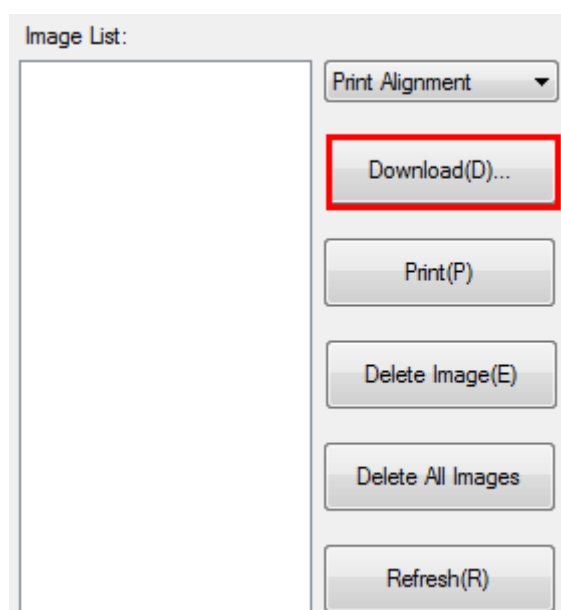


Note: this setting needs to be set in utility, here are the steps.

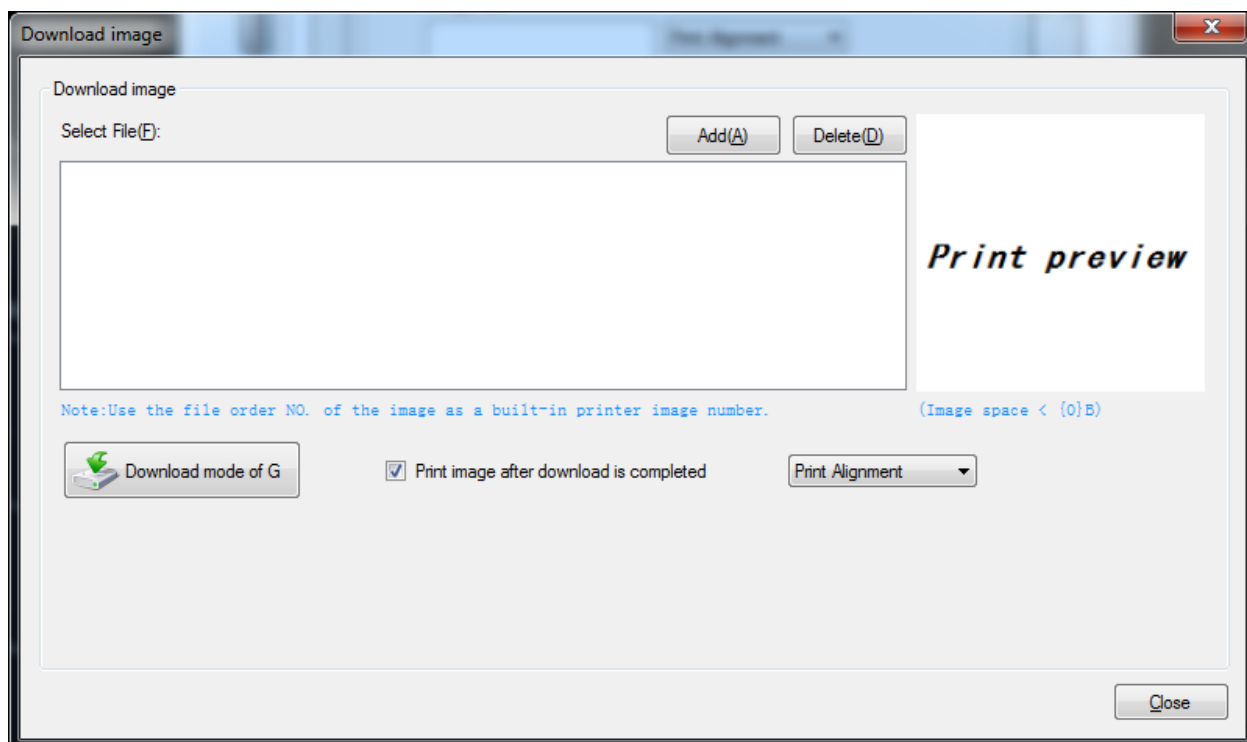
- Open the utility and click "Manage Images".



- Click "Download".

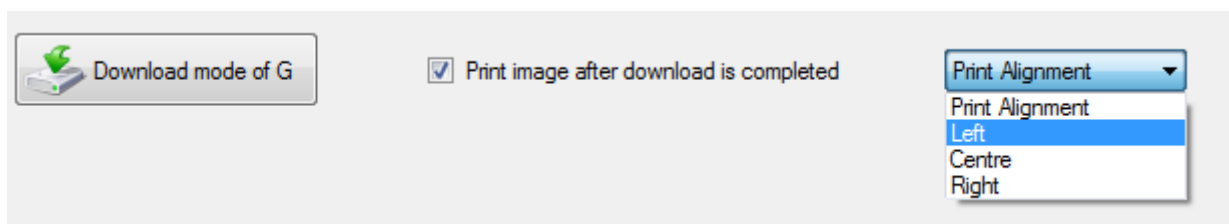


- Click "Add" to add a logo. (BMP format is recommended)



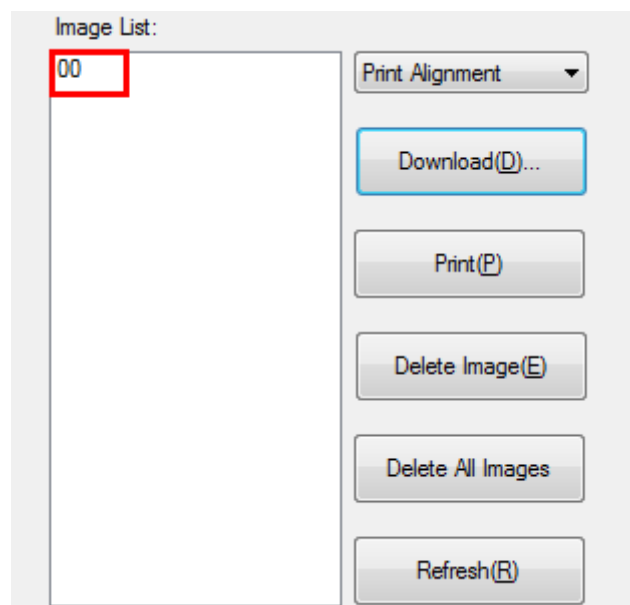


- Select the print location, and then click "Download mode of G". (Such as: left print)

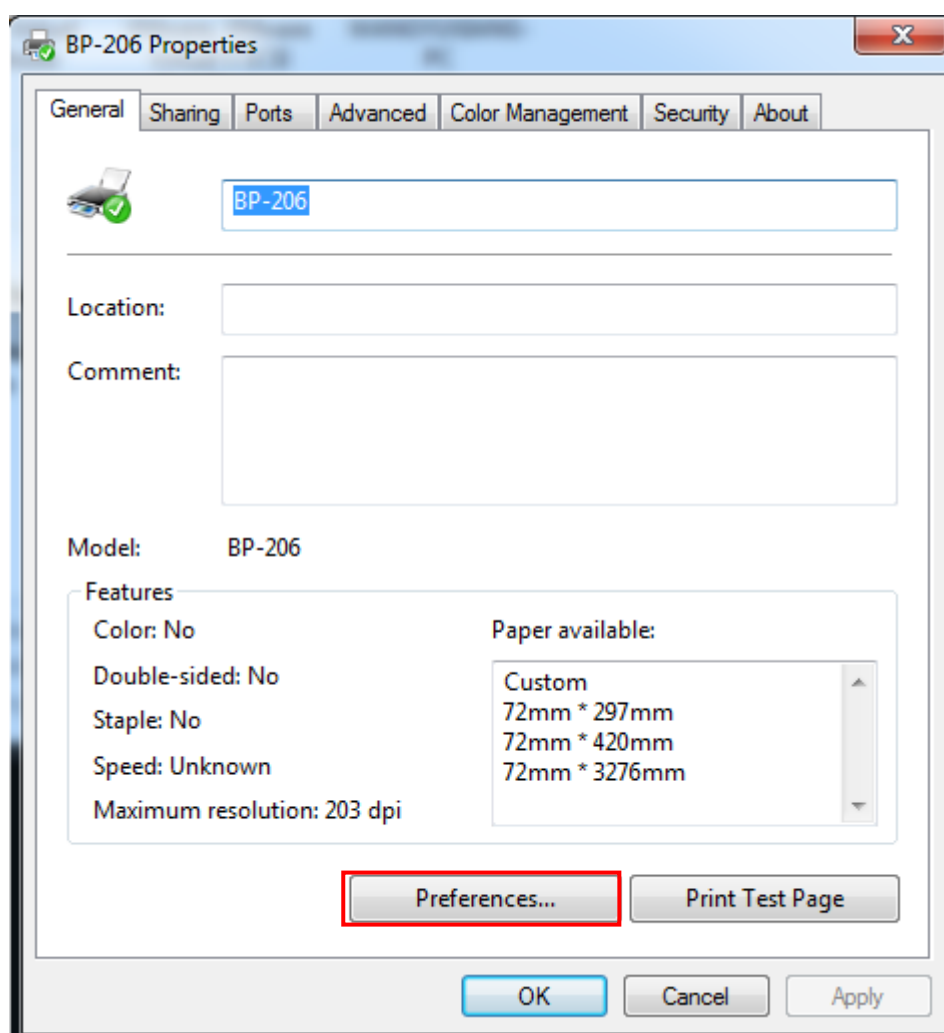
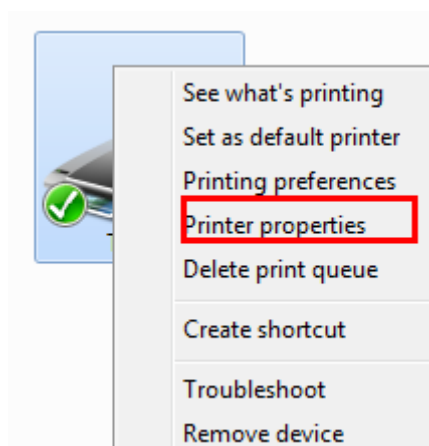


- Return to image list to view the image number.

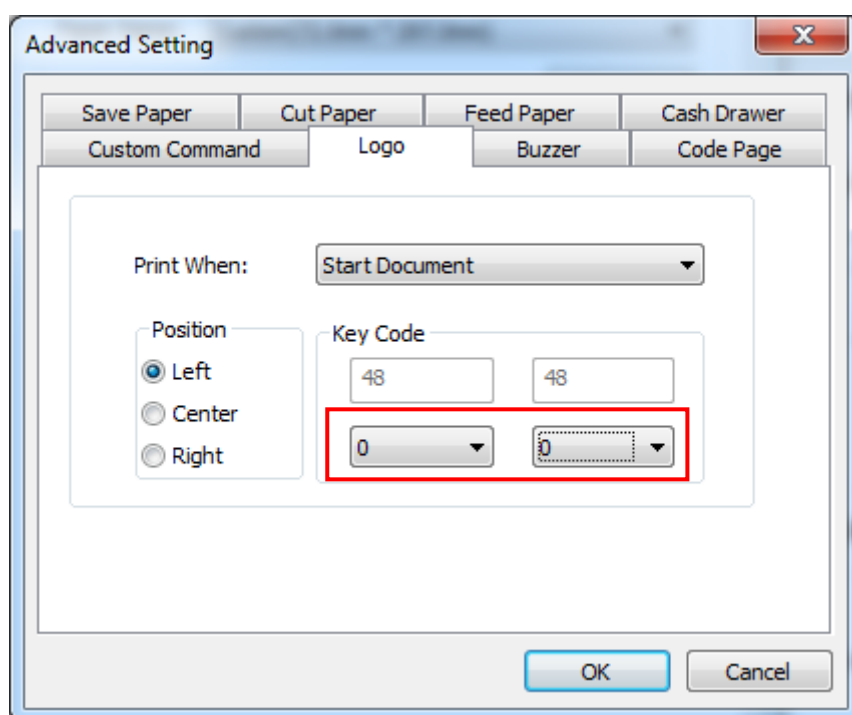
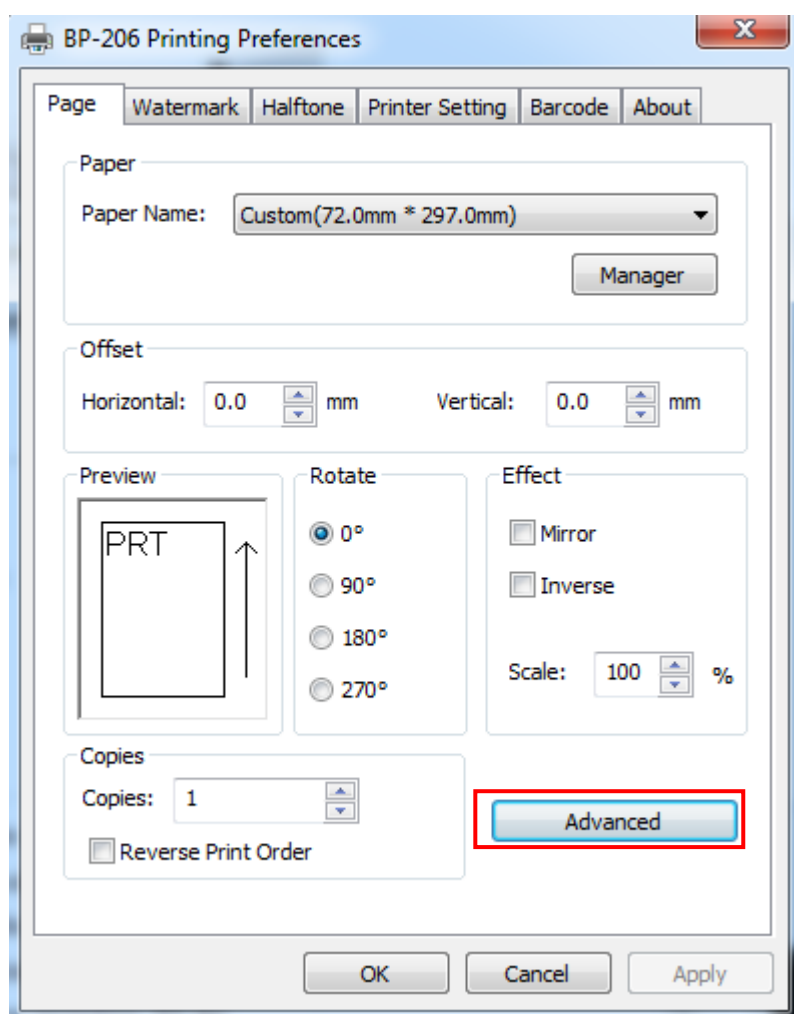
⚠ Note: each time click "Download mode of G", an image list number will be generated.



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



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

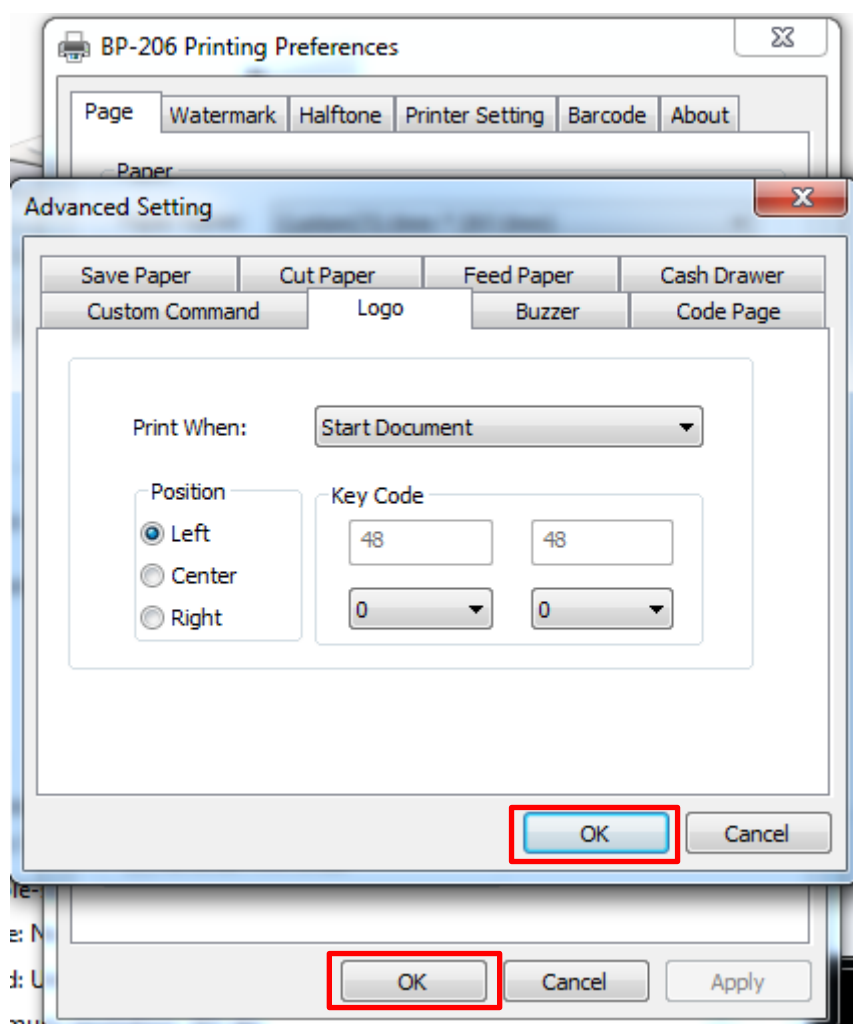


- Set the printing time to print and click "OK". (Such as: Start Document)

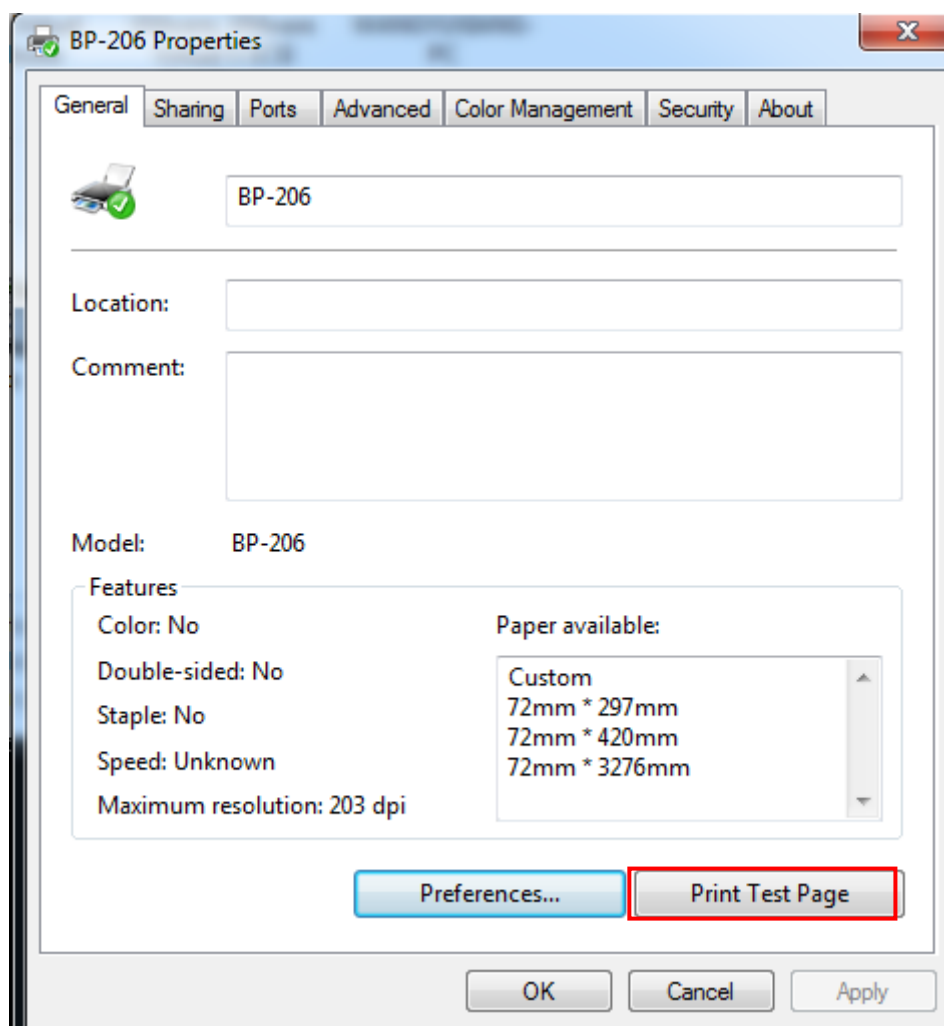
- Return to the logo setting in driver, also select "Print left".

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

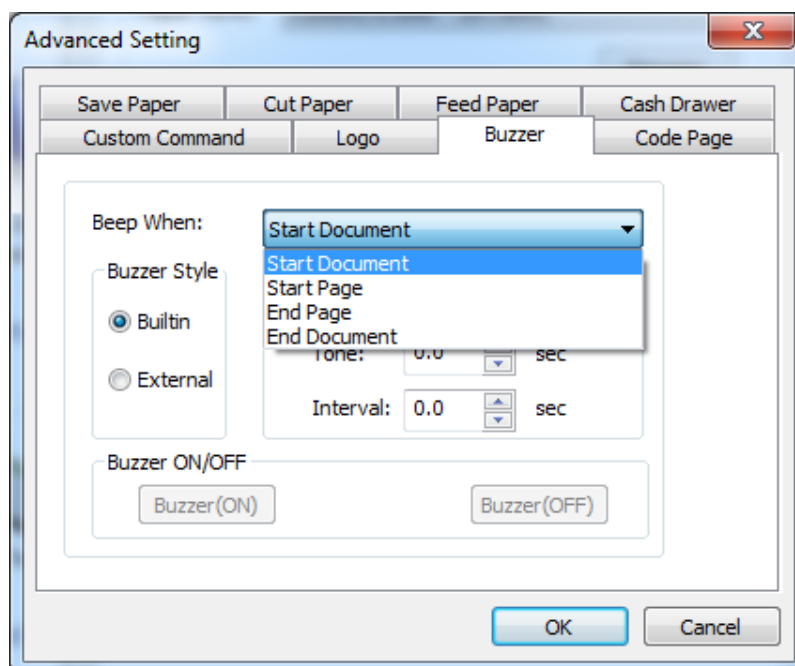
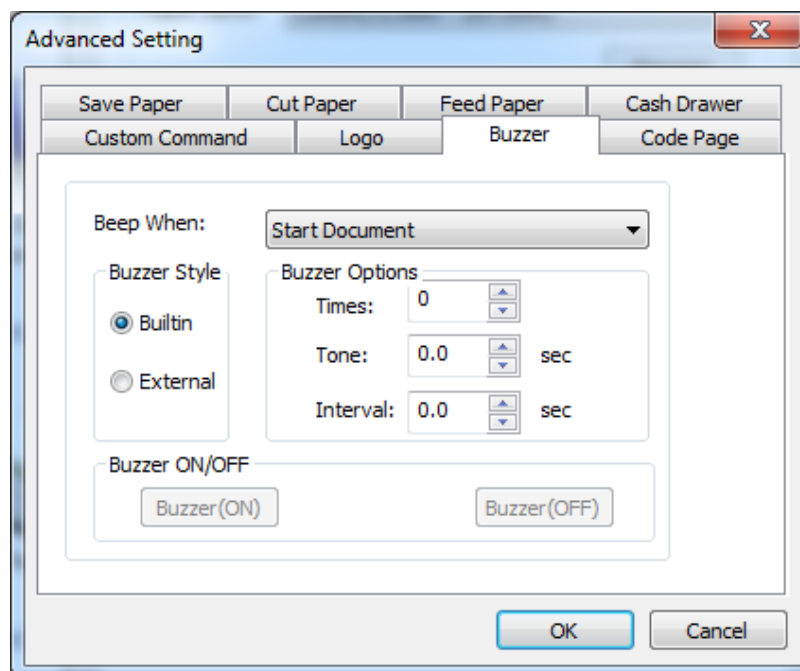
- Then click “OK”.



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



6) Buzzer



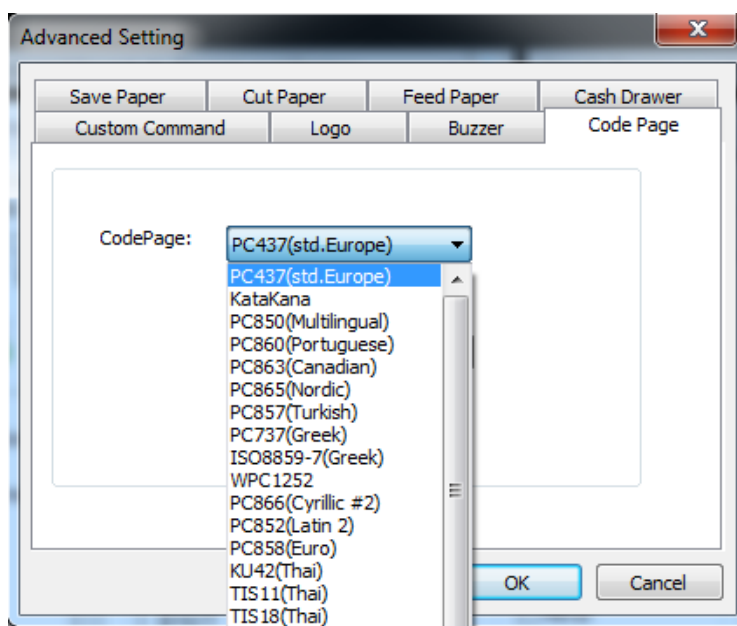
Buzzer times: 0/1/2/3/4/5

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

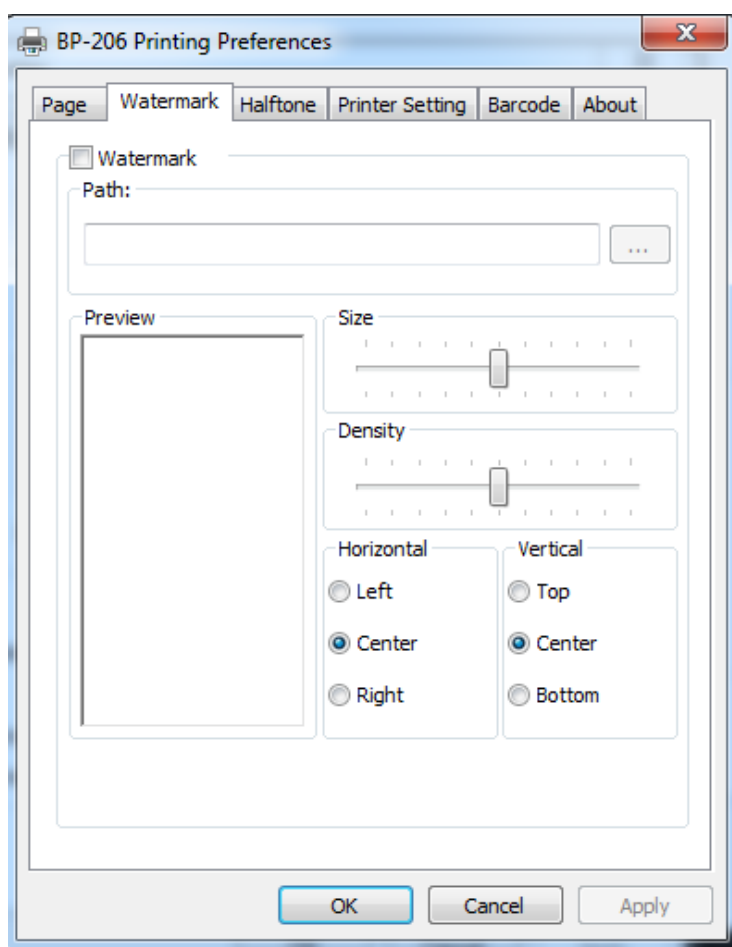
Buzzer Interval: 0.0/0.5/1/1.5/2/2.5/3.0 Sec

 **Note:** This setting must be operated in Utility.

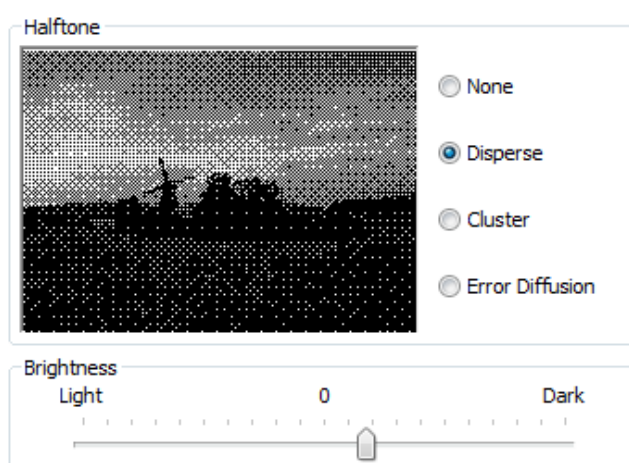
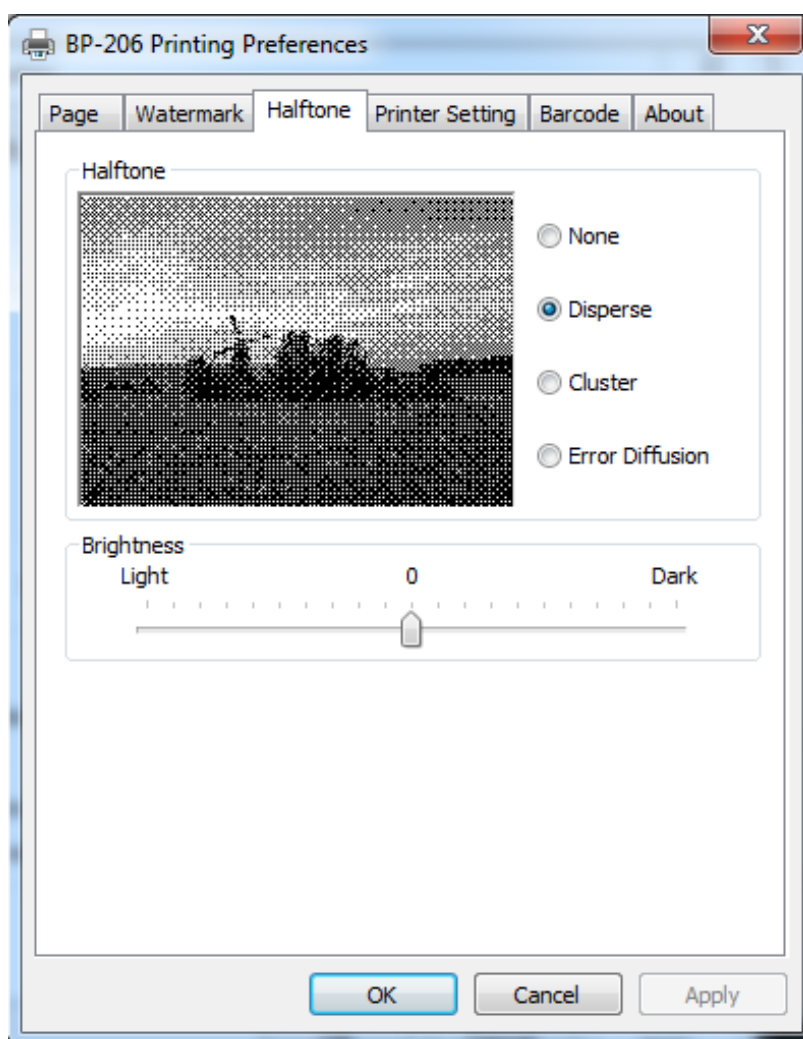
7) Code Page



3. Click "Watermark". Set watermark to print (BMP format is recommended) and click OK to save it.



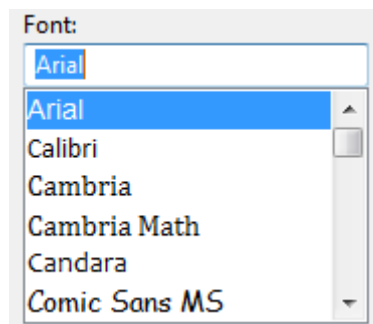
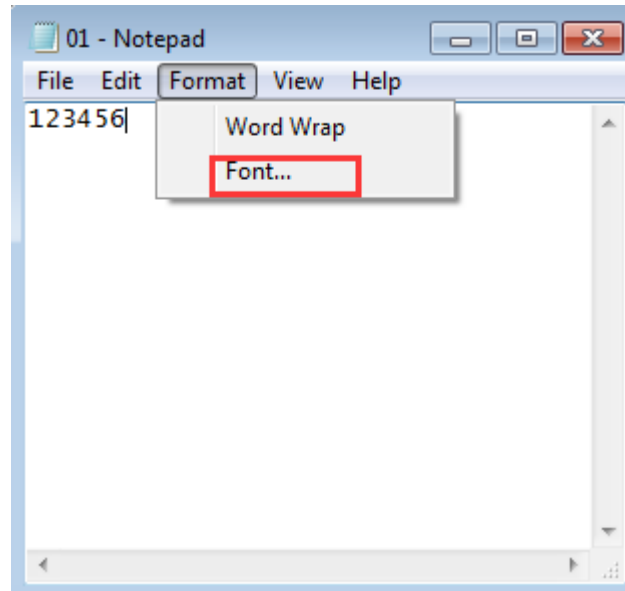
4. Click "Halftone" to set the halftone.



5.Set up the “Barcode”

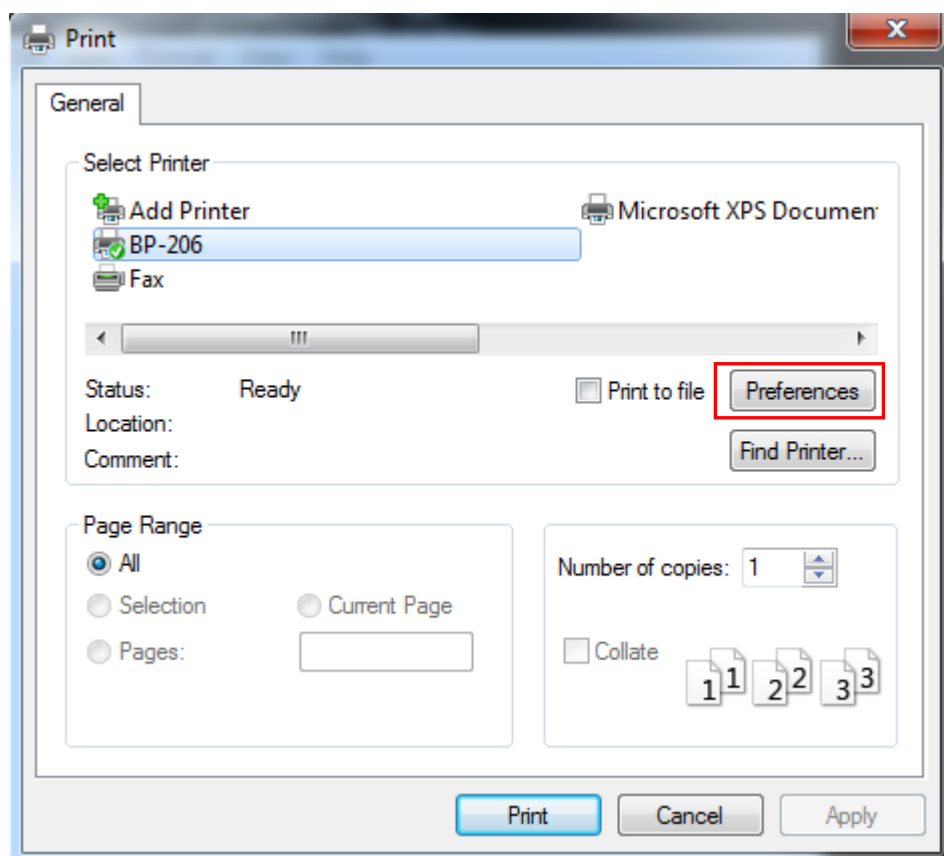
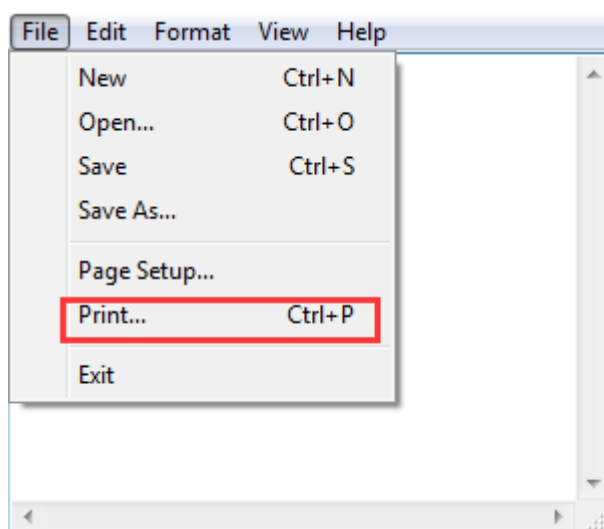
Assuming the font type of the main document is “Italics”, if you want to convert the data “123456” to the barcode printing, the steps are as follows:

- 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.



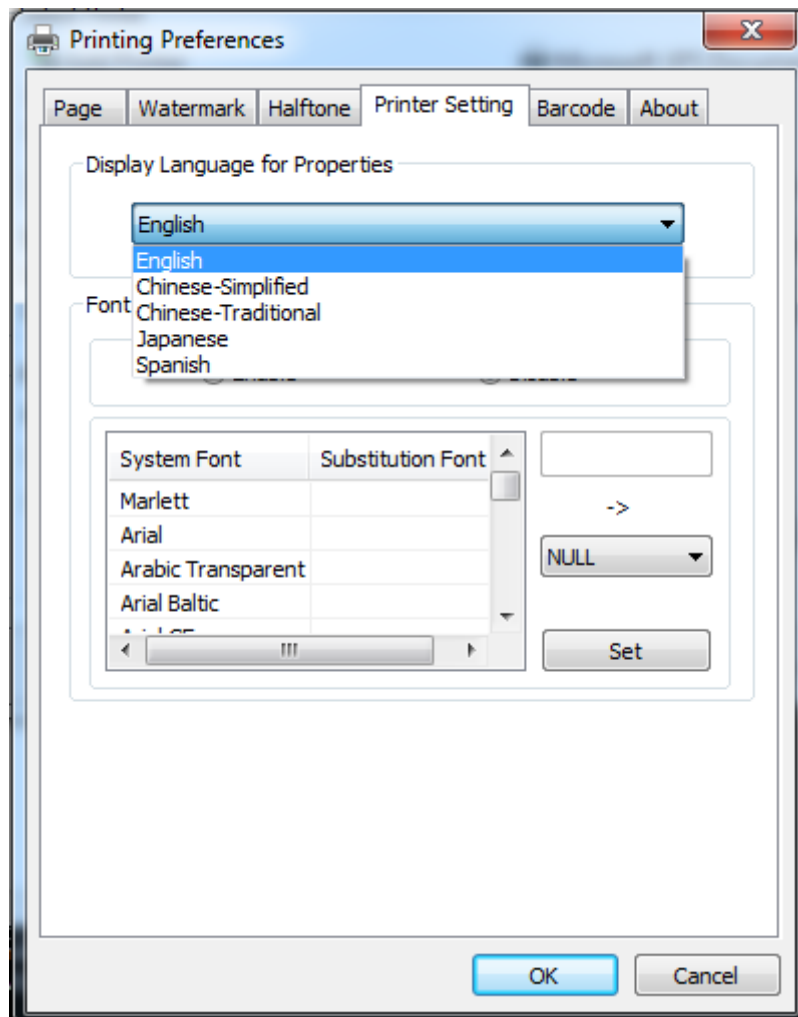
2) Set the “Font Name” and the “Barcode Option”.

The image shows a 'Barcode Setting' dialog box with three red annotations: '1、' pointing to the 'Font Name' field, '2、' pointing to the 'Symbology' dropdown, and '3、' pointing to the 'Width' and 'Height' dropdowns. The 'Font Name' field contains '01'. The 'Symbology' dropdown is set to 'Code39'. The 'Width' dropdown is set to 'Auto(3)' and the 'Height' dropdown is set to 'Auto(162)'. The 'HRI Position' is set to 'Below Bars' and the 'HRI Font' is set to 'Auto'. The 'Orientation' is set to '0'. The 'Symbology Options' section has 'Model' set to 'Auto', 'Cols' set to 'Auto(0)', 'Error Correction' set to 'Auto', and 'Rows' set to 'Auto(0)'. There are 'OK' and 'Cancel' buttons at the bottom.

| | | | | | |
|-------|-----------|-----------|-----------------|---------|-------|
| Paper | Watermark | Halftone | Printer Setting | Barcode | About |
| Name | | Symbology | | | |
| 01 | | Code39 | | | |
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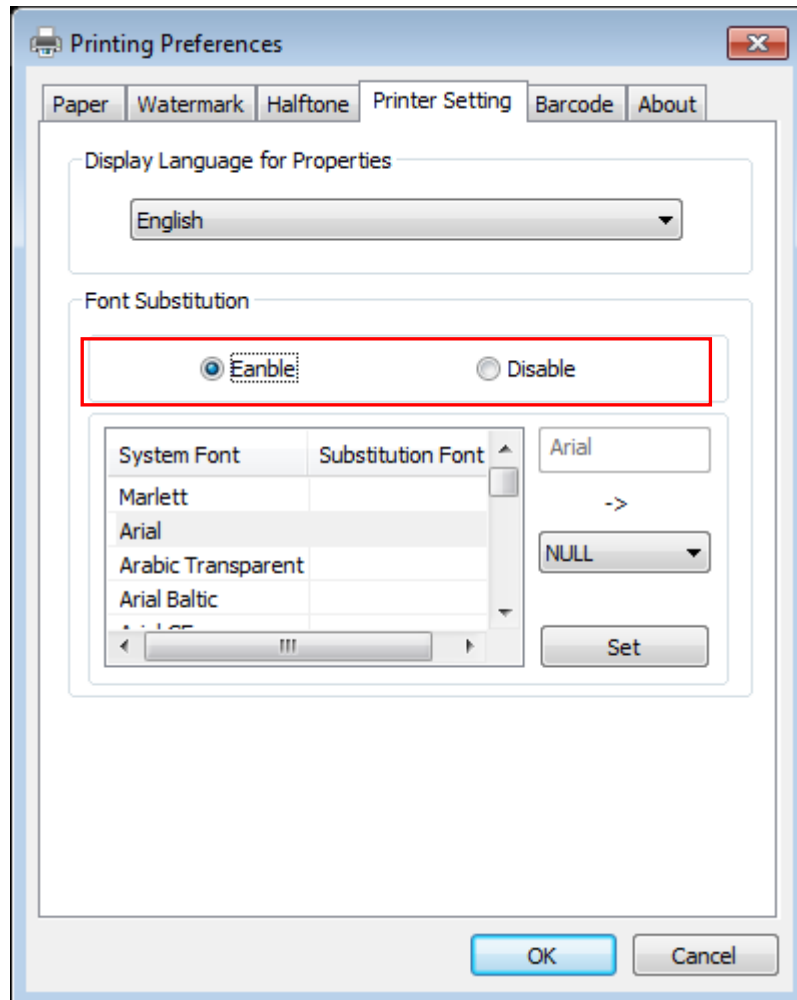
3) Click the “Printer Setting”.

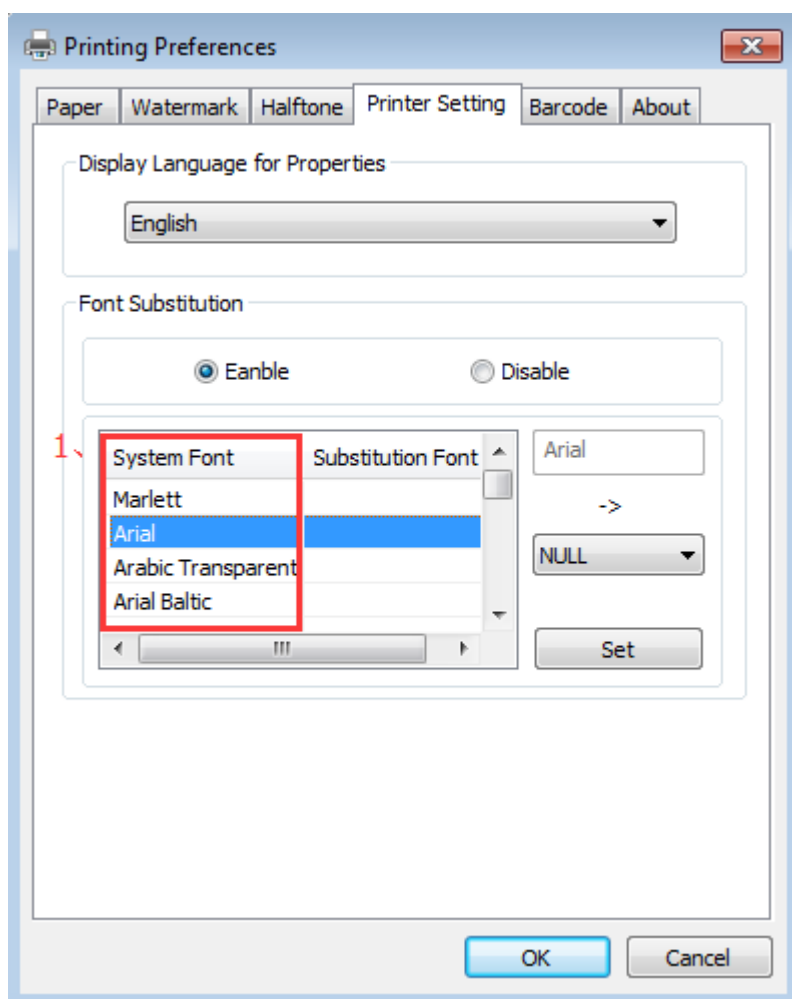
- Choose the “Display Language for Properties”

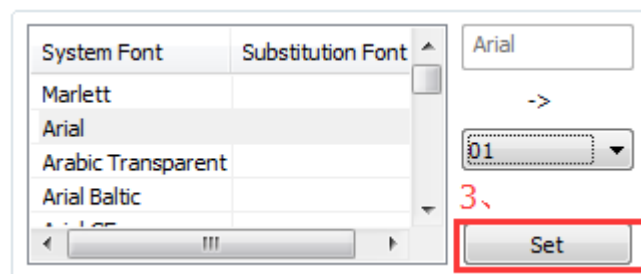
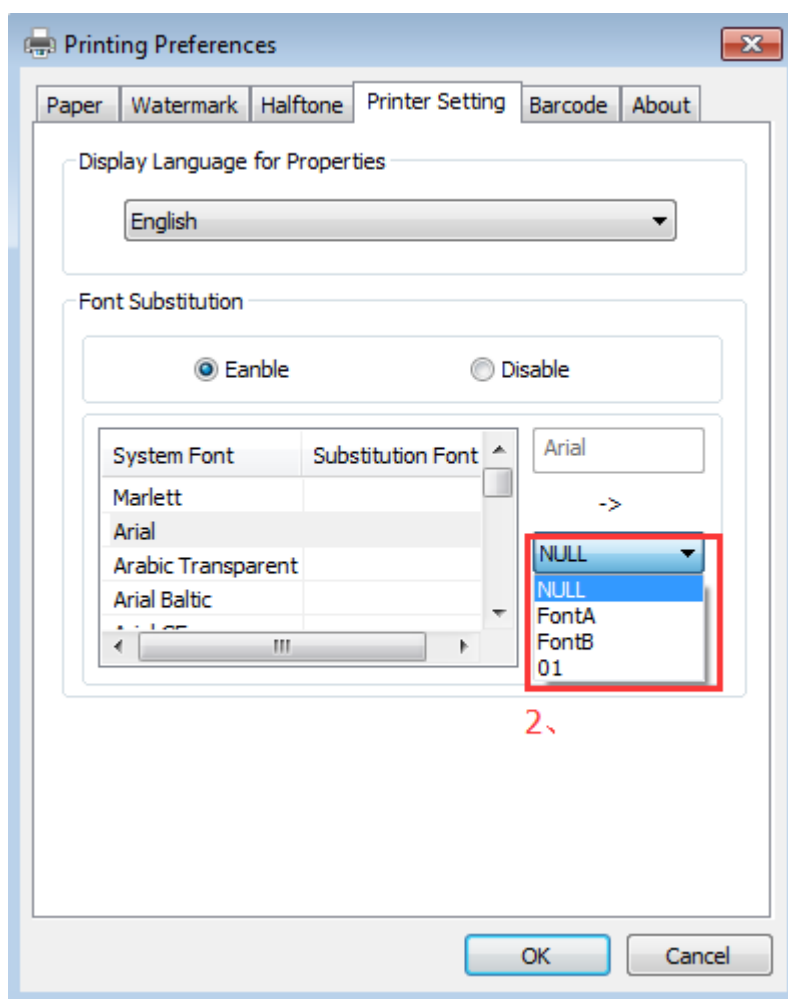


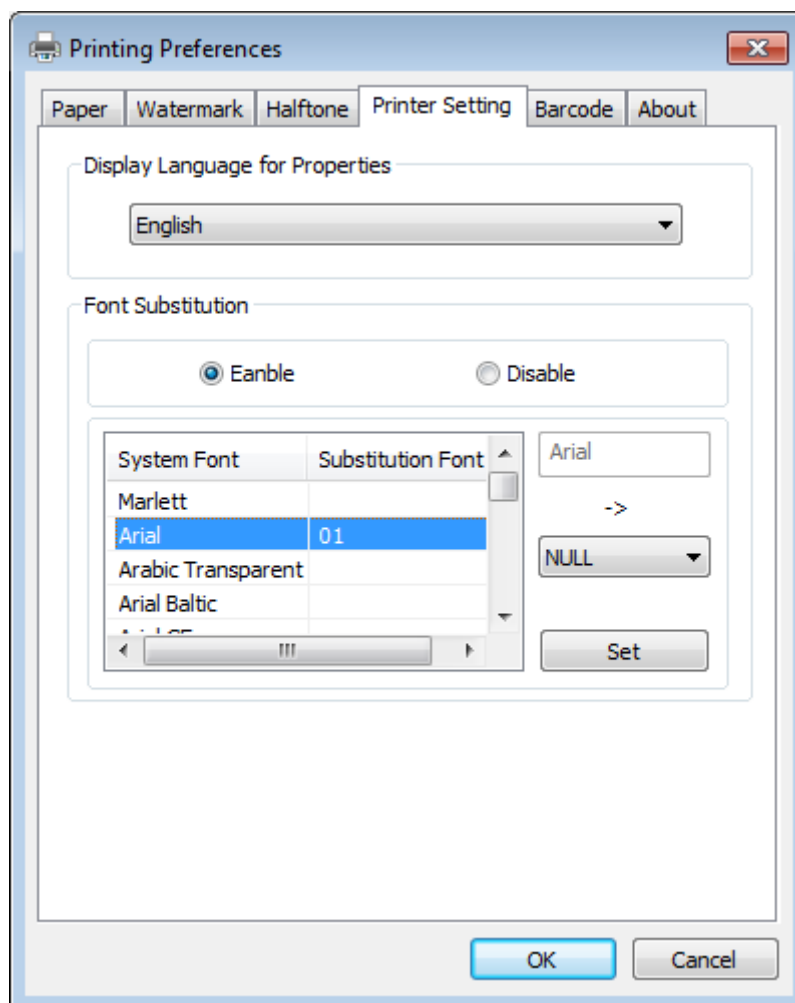
- Turn on the “Font Substitution”, select the system text need to be replaced (for example, Arial), and then select the font you want to replace (for example, 01) and click “Set”, and the replacement font will display "01".

the steps are as follows:



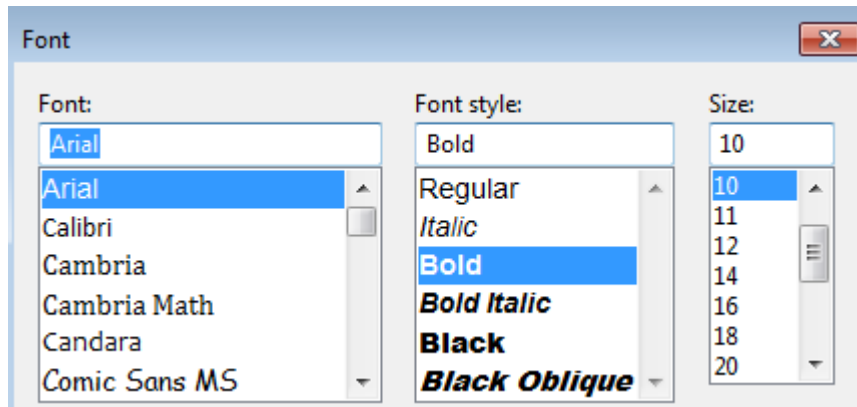




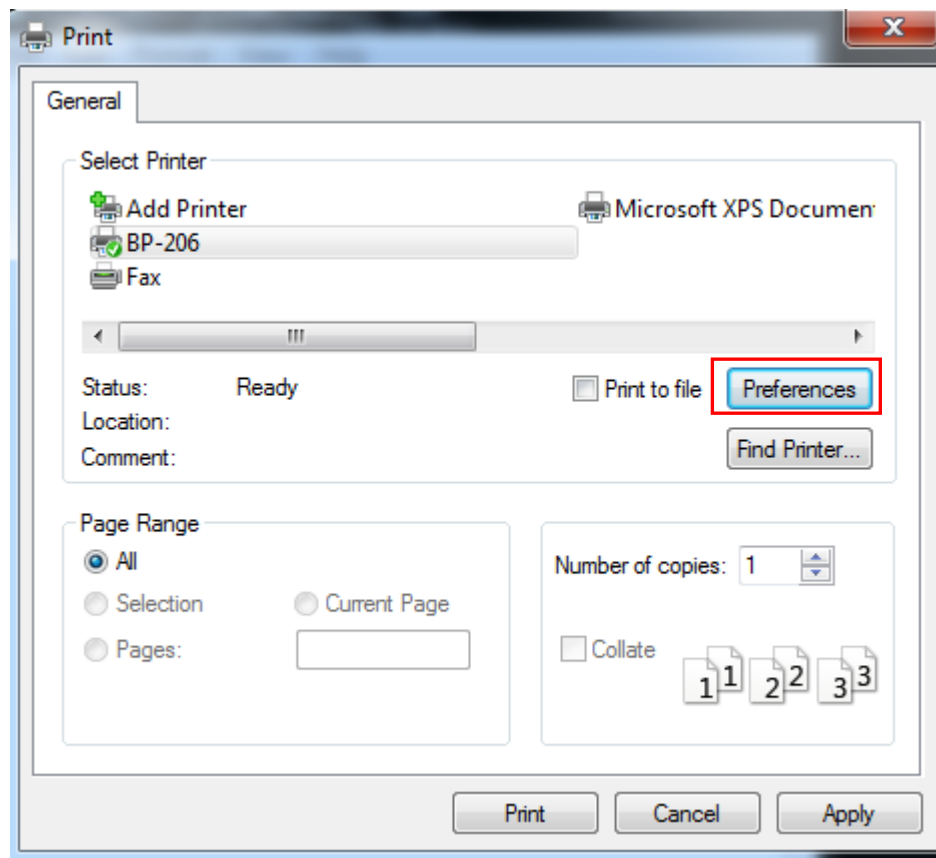


- If you do not have a barcode set, the action is as follows:

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

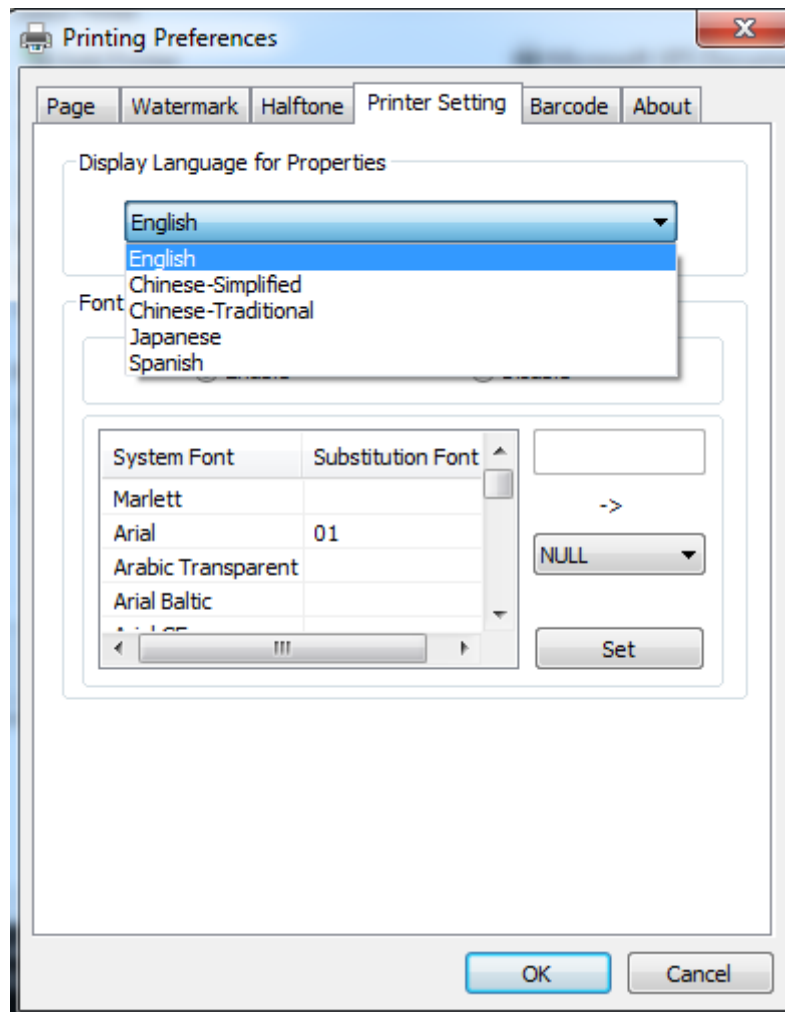


2) Set the Printing preferences.

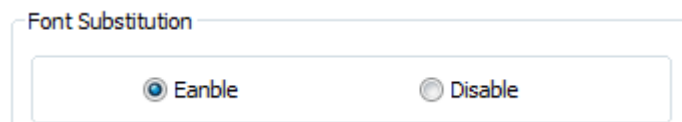


3) Click the “Printer Setting”.

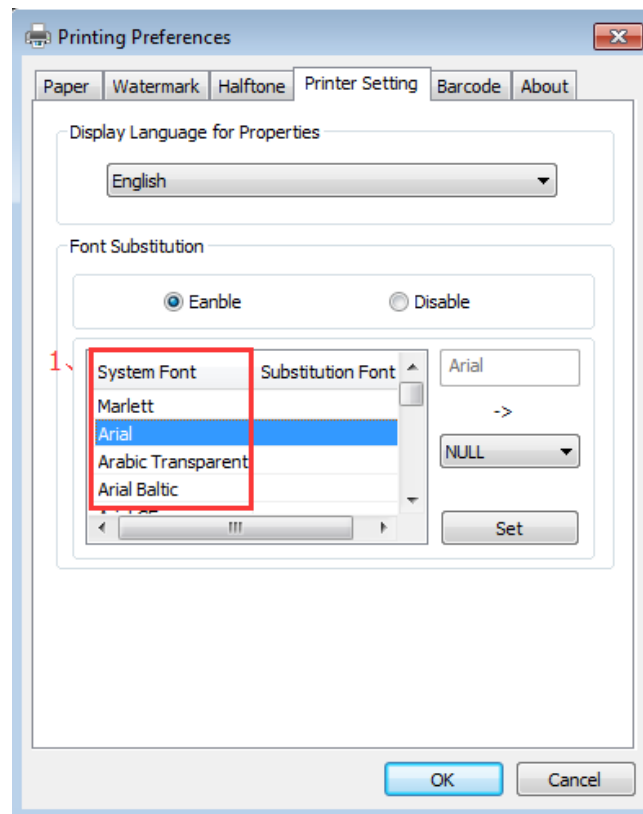
- Choose the “Display Language for Properties”.



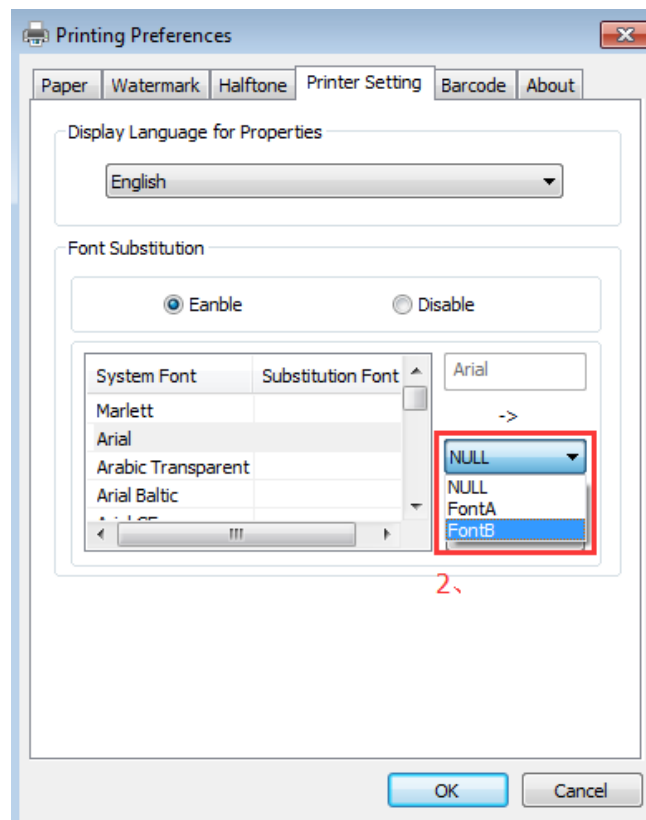
4) Turn on the “Font Substitution”.



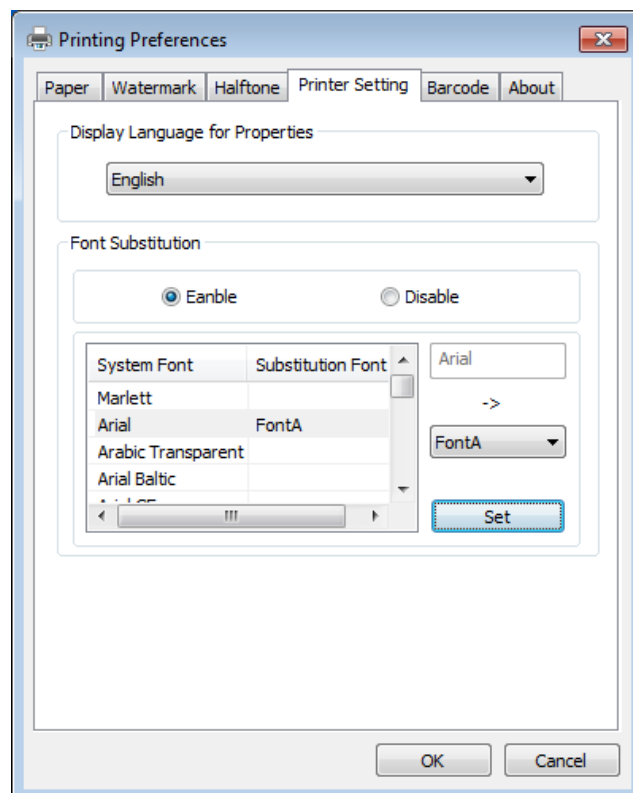
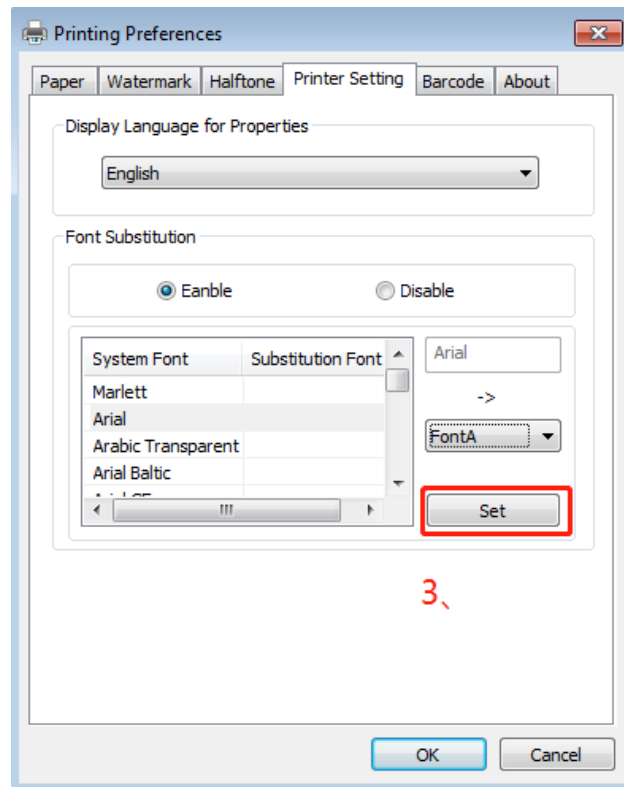
5) Select the “System Font”, for example: Arial.



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



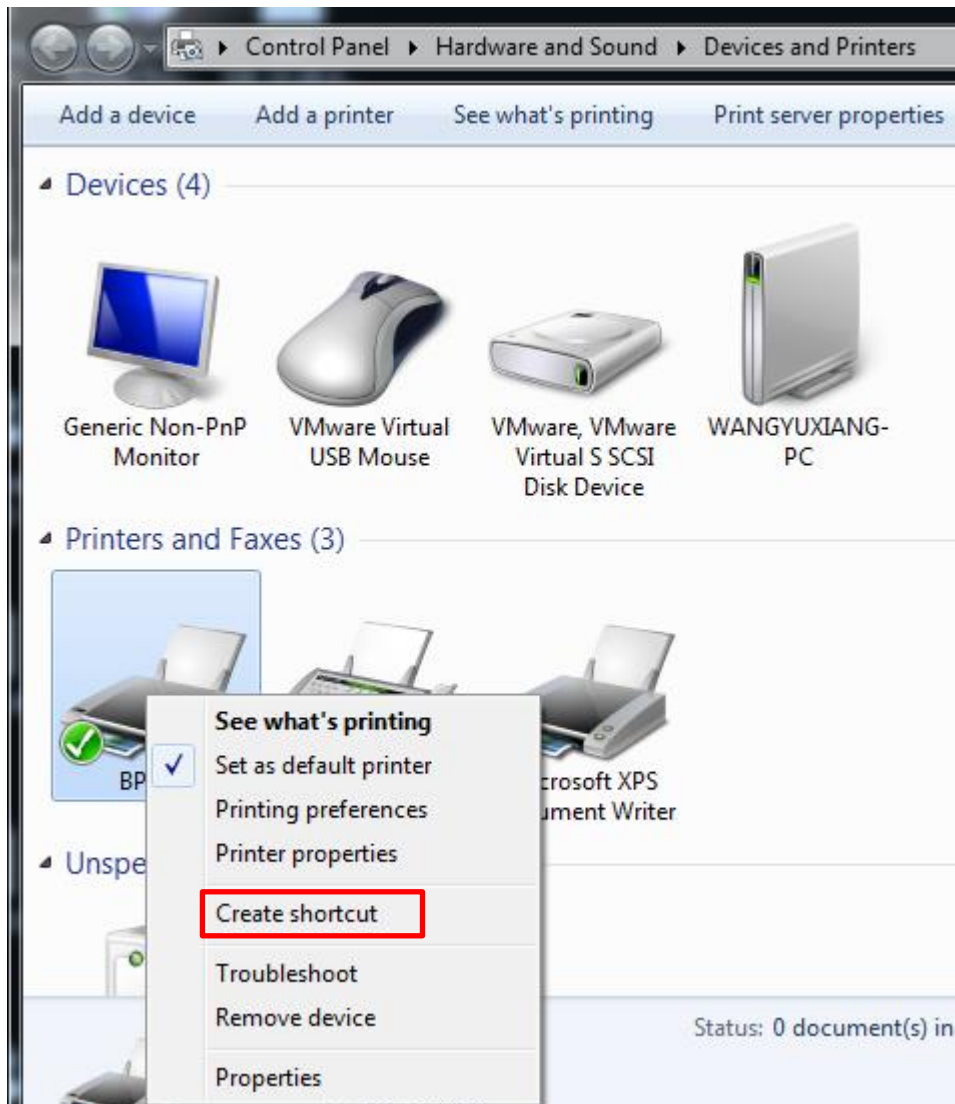
7) Click “Set”.



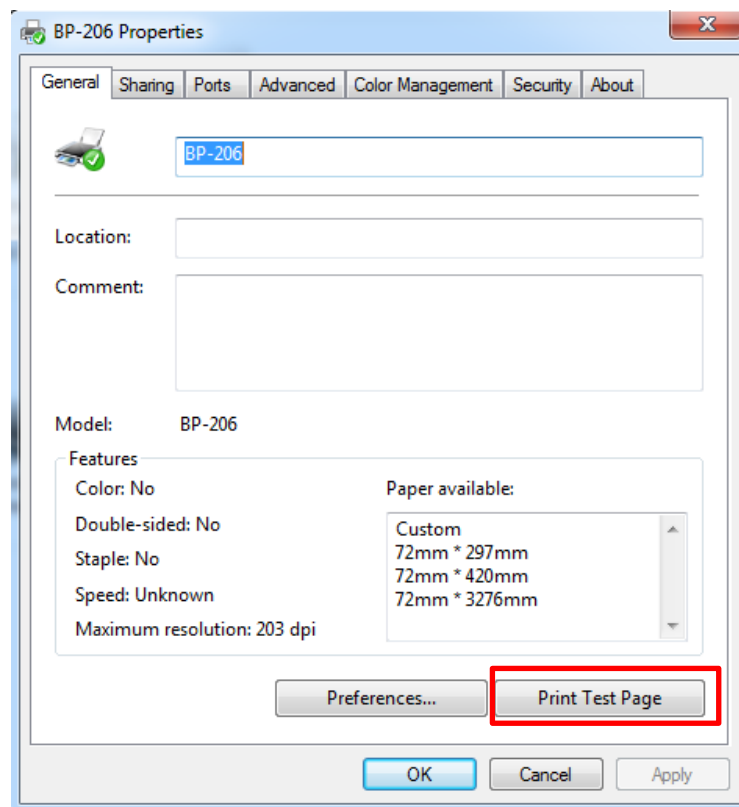
123456

9.5.2 Other Settings

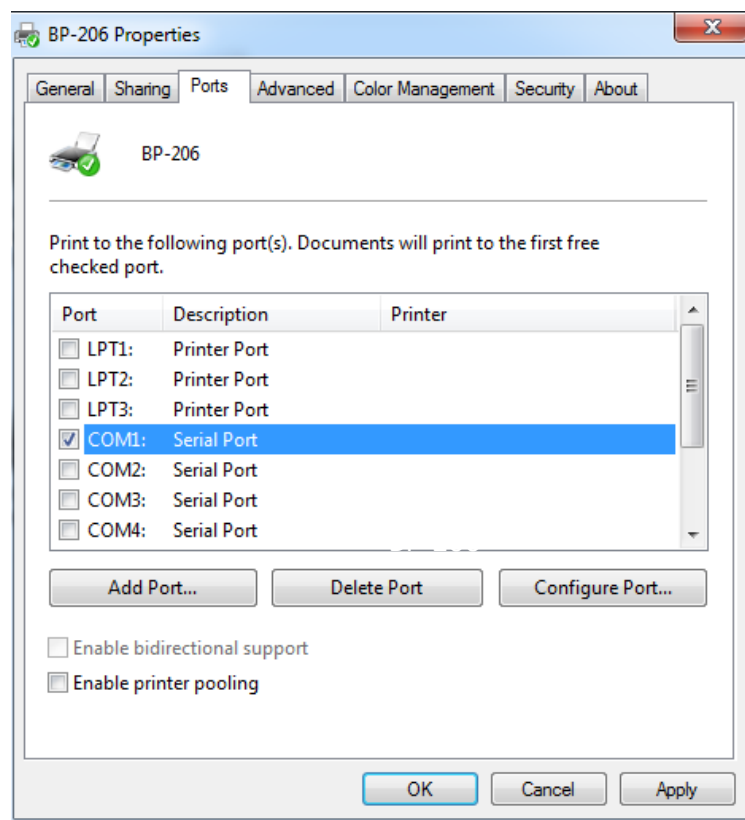
1. Click "Start" → "Devices and Printers". Right click "BP-206" and choose "Printer properties".



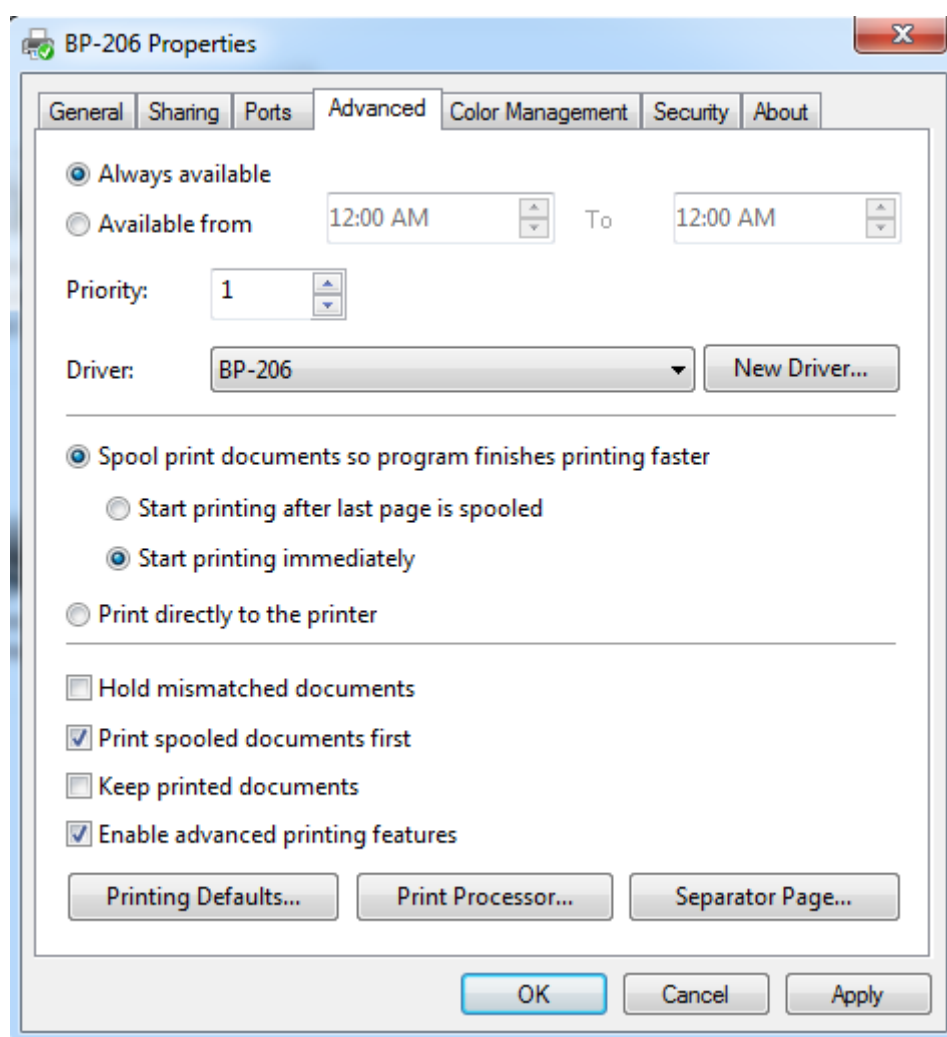
2. Choose "General", click on "Print Test Page", then it will print the current settings.



3. Setting the "Ports"

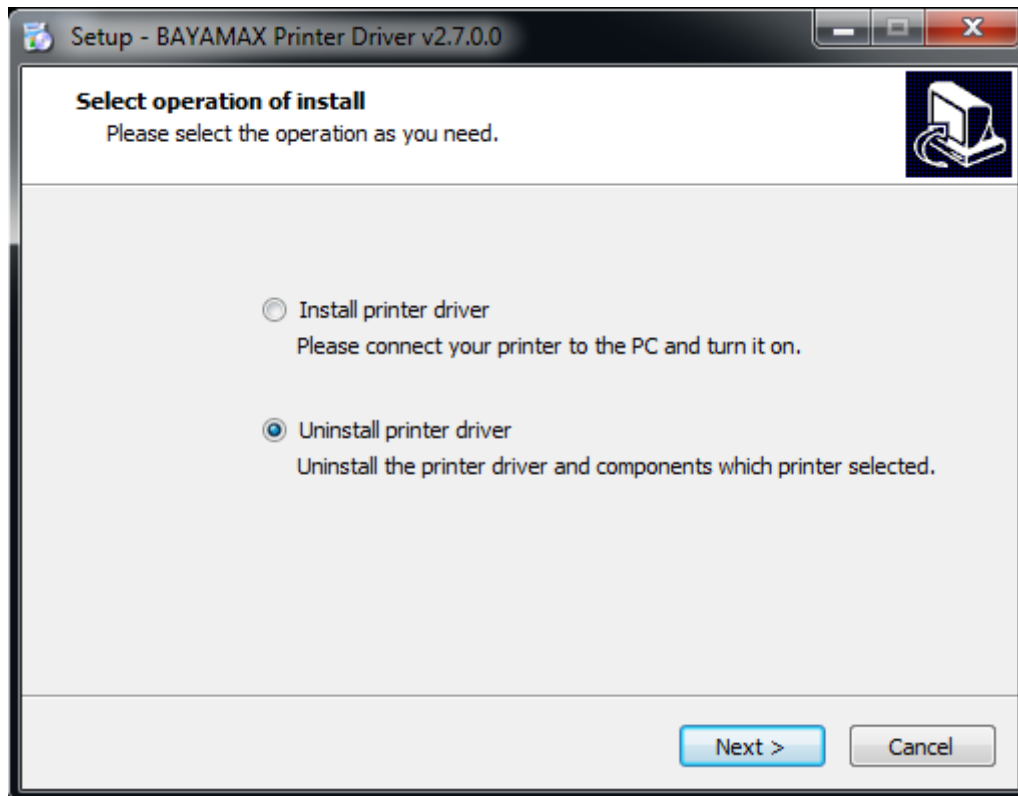


4. Click "Advanced" to set the printing time.

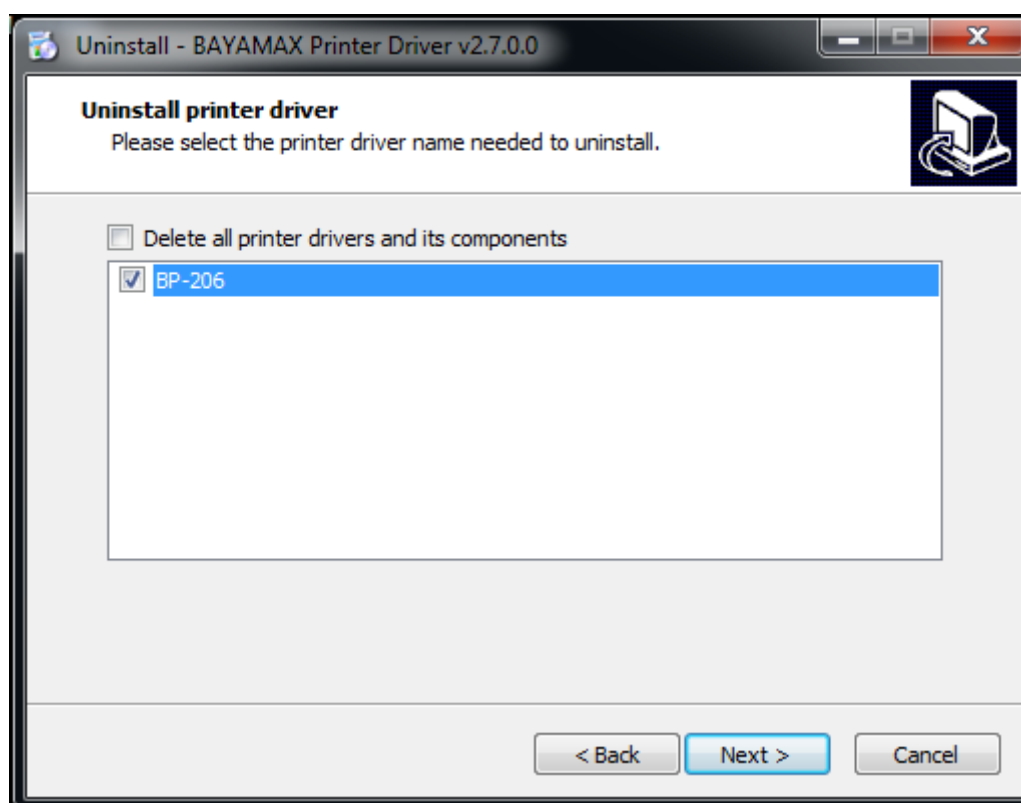


9.6 Uninstall Windows Driver

1. Double click Windows Driver.
2. Choose “Uninstall printer driver”, then click “Next”



3. Choose “BP-206”, then click “Next”



4. The driver is uninstalled.