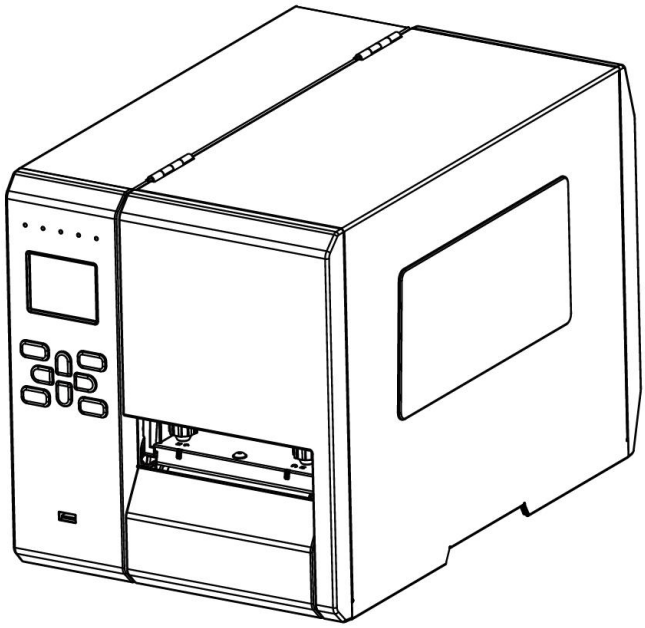
BP 4210i&BP 4308i
Industrial Barcode Printer



User Manual

Rev.1.0

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Change Record

REV.	Date	Summary of Changes	
		Item	Description
1.0	2025.08.18	-	First Edition.

■ Statement

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Printed in China

1.0 Version

■ Warnings

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

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

Note: Due to continuous update of our product, the description of printer specification, accessories, design in this manual may be slightly different. Please keep in kind prevail.

Important Safety Instructions

Before using the appliance, please carefully read the following safety regulations in order to prevent any hazard or material damage.

1. Safety warning

Warnings: The print head will become very hot during printing. avoid contact with the print head after printing has finished.

Warnings: Do not touch the printer head and connector in case static damage the printer head.

2. Instructions

Warnings: Violating following instructions can cause serious injury or death.

1) Do not plug several products in one multiperture outlet.
   - This can provoke over-heating and a fire.
   - If the plug is wet or dirty, dry or wipe it before usage.
   - If the plug does not fit perfectly with the outlet, do not plug in.
   - Be sure to use only standardized multiperture outlet.

2) You must use the supplied adapter.
   - It is dangerous to use other adapters.

3) Do not pull the cable to unplug.
   - This can damage the cable, which is the origin of a fire or a breakdown of the printer.

4) Do not plug in or unplug with your wet hands.
   - You can be electrocuted.

5) Do not bend the cable by force or leave it under any heavy object.
   - A damaged cable can cause a fire.

Note: Violating following instructions may cause slight damage of the appliance.

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

- Switch off the printer and unplug the set from the mains.
- After the disappearance of the smoke, call your dealer to repair it.

2) Install the printer on the stable surface.

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

3) Use the approved accessories only and do not try to disassemble, repair or remodel it by yourself.

- Call your dealer when you need these services.
- Do not touch the blade of auto cutter.

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

- If this happened, switch off and unplug the printer before calling your dealer.

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

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

6) Other considerations:

- Place the printer on a solid and even base so that it cannot fall.
- Leave enough space around printer for operation and maintenance.
- Keep all liquids away from the printer.
- Do not expose the printer to high temperatures, direct sunlight or dust.
- Ensure the printer is connected to a socket with the correct mains voltage.
- Switch off the printer POWER supply when it's not in use for a long time.
- To ensure the printing quality and reliability, suggest use the same quality or recommend paper supplier.
- Pls. switch off the POWER supply when connect/disconnect all the ports or it will cause damage to the printer control circuit.
- Never carry out maintenance or repair work yourself. Always contact a qualified service Technician.
- Keep this User Manual in a place which is easily accessible for all times.

3. Other Precautions

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4. WEEE (Waste Electrical and Electric Equipment)

This mark shown on the product or its literature indicates that the corresponding item should not be discarded at the end of its working life with others 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.

5.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 A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment isoperated in a commercial environment. This equipment generates, uses, and canradiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Opetion of this equipment in a residential area is likely to cause harmful interference in whichcase the user will be required to correct the interference at his own expense.
-- 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.
WARNING:
This Equipment is not suitable for use in locations where childeren are likely to be present.
The product needs to be reliably earthing after being powered on.
Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
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.
Replacement of a battery with an incorrect type that can defeat a safeguard. Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting a battery, can result in an explosion. Leaving a battery in an extremely high temperature surrounding environment can result in an explosion or the leakage of flammable liquid or gas.

Note: This product is not used for children.

Warning

This product contains a button battery.

If the button battery is swallowed, it can cause severeinternal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children.

If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

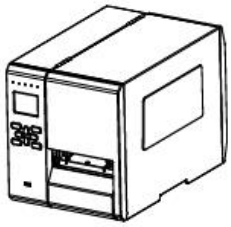
Do not charge button batteries. Risk of fire or explosion if the battery is replaced by an incorrect type

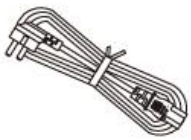
The protective grounding conductor of the product shall be connected to the protective grounding conductor of the installation.

Chapter 1 Introduction

1.1 Packing List

1. Unpack the printer and keep the packing material in case you need to ship the printer in the future.
2. Any damages exist, please contact the local dealer.


Printer


Power Cord

USB Cable

Label Roll

Ribbon Core

Ribbon

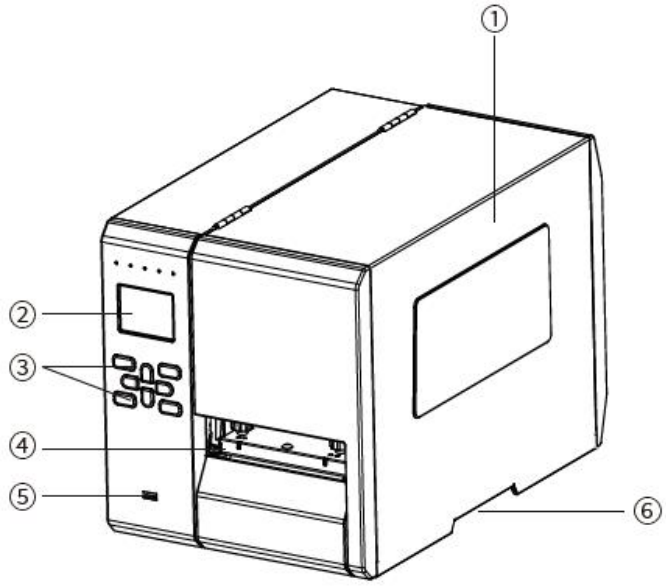
Quick Start Guide

CD

Note: The packing materials are based on the order.

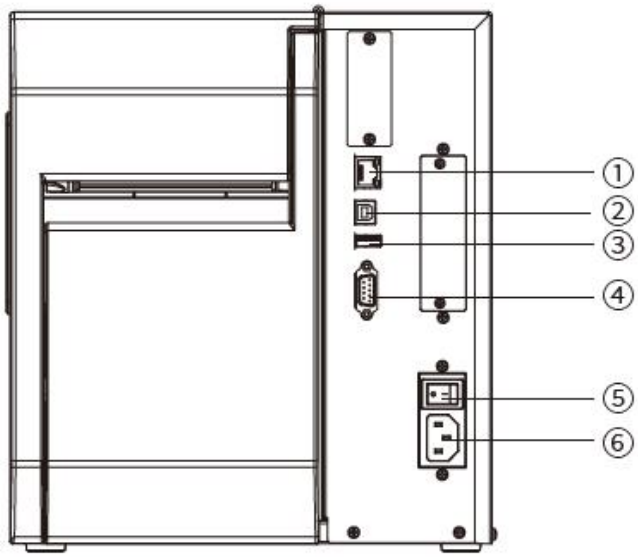
1.2 Appearance and Components

▪Front View



① Side Cover ② Display Screen ③ Control Panel
④ Paper Outlet ⑤ USB Host ⑥ Cover Openning

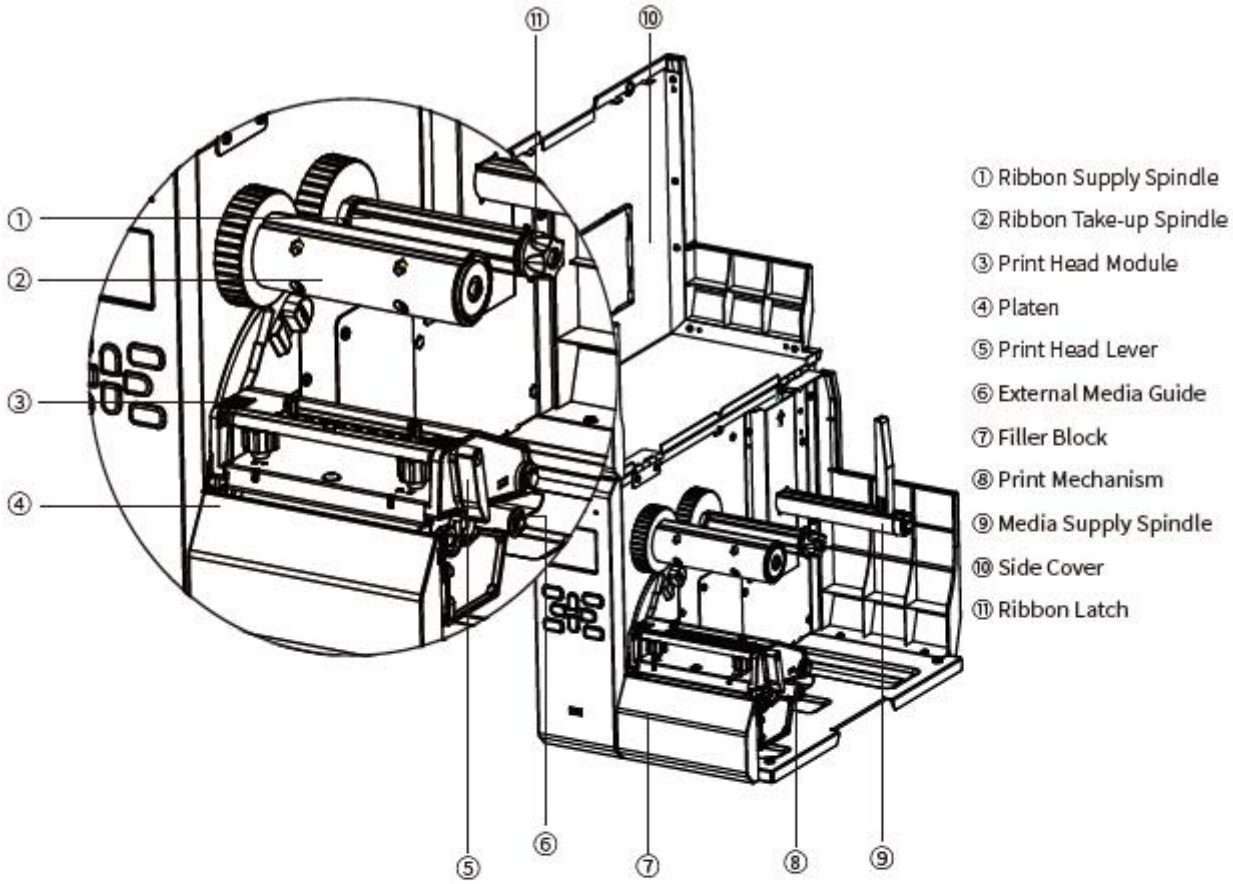
▪Rear View



① Ethernet Port ②USB B-type ③ USB Host
④ Serial Port ⑤ Power switch ⑥ Power port

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

▪Inside View


①
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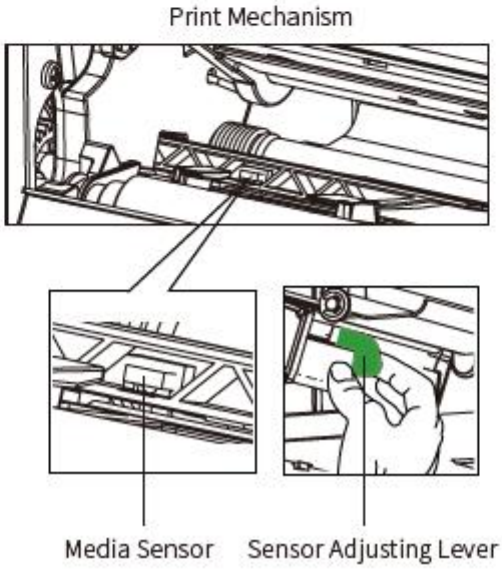
⑨
⑩
⑪
① Ribbon Supply Spindle
② Ribbon Take-up Spindle
③ Print Head Module
④ Platen
⑤ Print Head Lever
⑥ External Media Guide
⑦ Filler Block
⑧ Print Mechanism
⑨ Media Supply Spindle
⑩ Side Cover
⑪ Ribbon Latch


Print Mechanism
Media Sensor
Sensor Adjusting Lever

Chapter 2 Specifications

Item		Parameter
Model		BP 4210i&BP 4308i
Printing	Printing Method	Direct thermal/ Transfer thermal
	Resolution	203dpi/300dpi
	Max. Printing Speed	203dpi:2~8ips,300dpi:6ips
	Max. Printing Width	104 mm
	Max. Printing Length	1000 mm (203dpi)/750 mm (300dpi)
Programming Language		DPL,EPL2,ZPL-II,TSPL
Media	Type	Folded paper or roll paper, die-cut or continuous label paper, black mark paper
	Width	20 mm - 118 mm
	Thickness	0.08 mm - 0.25 mm
	Roll Paper Diameter	200 mm
	Int. Diameter	1.5 inch (38.1 mm), 3 inch (76.2 mm)
Ribbon	Type	Wax, Resin, Mixes Base
	Inside Diameter	25.4 mm
	Width	30 mm – 110 mm
	Max length	450 meters
Processor		32-bit RISC CPU
Memory	RAM	128MB
	Flash	256MB
Detection	Sensor	Out-of-paper Sensor, Gap Sensor, Cover Opening Sensor, Black Mark Sensor, TPH Temperature Sensor, Ribbon Out Sensor
Display		2.4 inch display screen
		Clock
		Two-color light: status indicator, pause indicator, data indicator, media indicator, network indicator Control key: 4 + 4 (Menu, Calibration, Feed, Pause, Return key, Confirm key, Up / Down key)

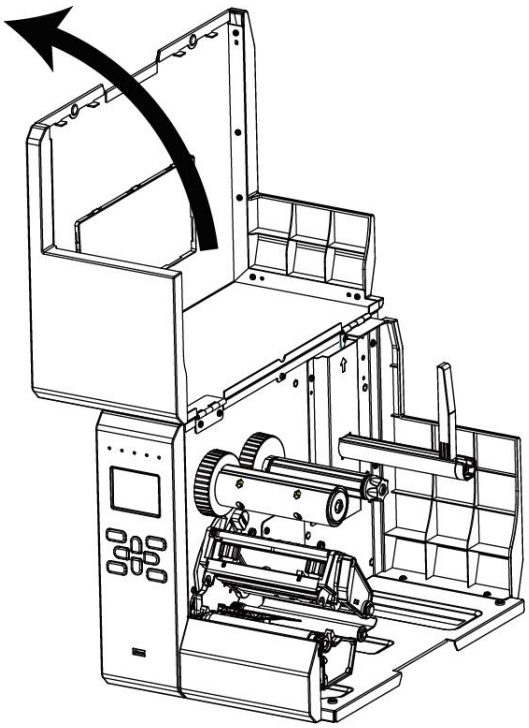
Item		Parameter
Built-in fonts	Bitmap Font	6, 8, 12, 16, 32, OCR A&B. 90 °, 180 °, 270 ° rotation and 10x magnification in both horizontal and vertical directions
	Vector Font	Equal width CG Triumvirate ™ Vector font
Downloadable fonts	Bitmap Font	90 °, 180 °, 270 ° rotatable, single text 90 °, 180 °, 270 ° rotatable
	Vector Font	90 °, 180 °, 270 ° rotatable
	Asian Characters	16x16, 24x24 Traditional Chinese, Simplified Chinese, Japanese, Korean
One-dimensional Code		Code 39, Code 93, EAN 8/13 (add on 2 & 5), UPC A/E (add on 2 & 5), I 2 of 5 & I 2 of 5 with Shipping Bearer Bars, Codabar, Code 128 (subset A, B, C), EAN 128, RPS 128, UCC 128, UCC/EAN-128 K-Mart, Random Weight, Post NET, ITF 14, China Postal Code, HIBC, MSI, Plessey, Telepen, FIM, GS1 DataBar, German Post Code, Planet 11 & 13 digit, Japanese Postnet, I 2 of 5 with human readable check digit, Standard 2 of 5, Industrial 2 of 5 , Logmars, Code 11, Code 49, Cadablock
QR code		PDF417, Data matrix code, Maxi Code, QR code, Micro PDF417, Micro QR code, Aztec code
Interface	**Standard**	USB, Serial port, Ethernet, USB Host
	Optional	Wi-Fi (EAP protocol)
Security Specification		CCC,FCC,CE,CB,UL,RoHS WEEE
Enviromental	**Operation Temperature**	41 ℉ (5℃) -104 ℉ (40℃), 30% -85%, non-condensing
	Storage Temperature	-4℉(-20℃)-122℉(50℃), 10%-90%, non-condensing
Relative Humidity		30% ～85%, non-condensing
Power Input		Input: AC 100-240 V, 50 / 60 Hz, Output: DC 24 V / 6 A
Optional		Electric cutter module (cutter, rotary blade) Label stripping module

Chapter 3 Installation & Usage

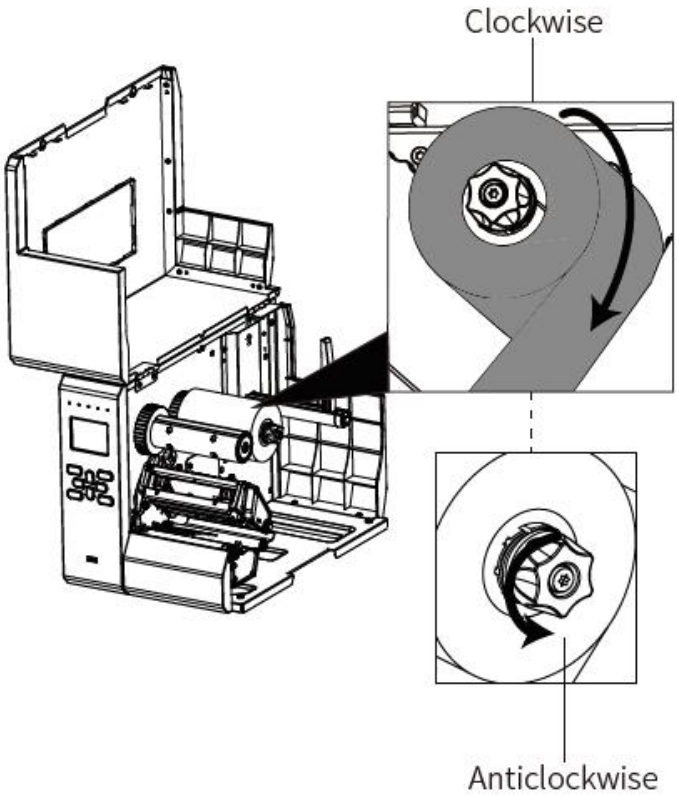
3.1 Ribbon and Paper Loading

3.1.1 Ribbon loading

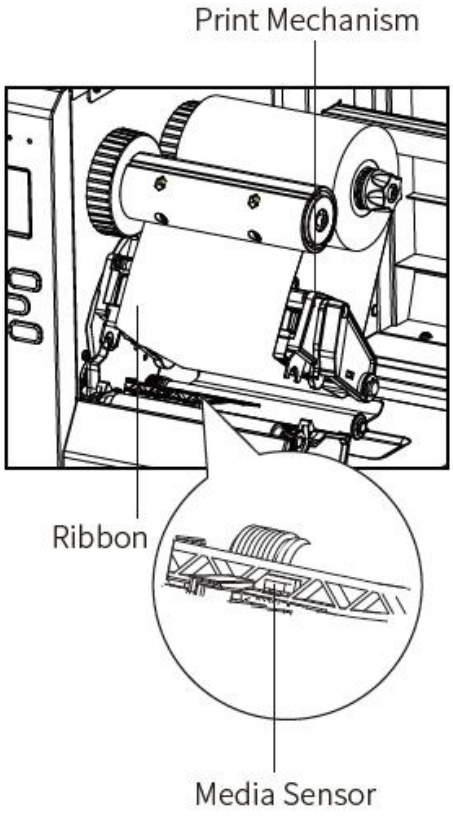
1.Place the printer on the flat table, lift the cover from the bottom-right of printer by hands.



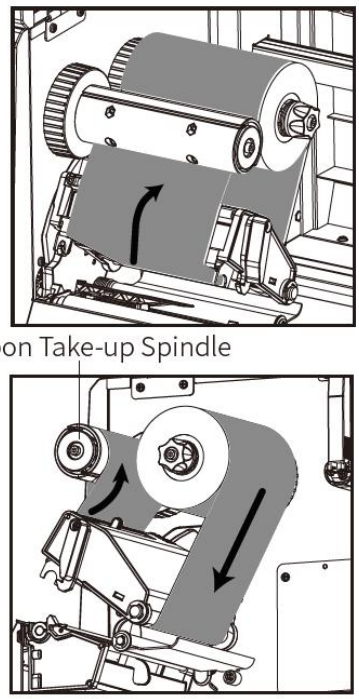
2.Load the out side ink ribbon into ribbon supply spindle, then anticlockwise tighten the ribbon latch to fix the ribbon.



3. Pull a part of ribbon of pass the ribbon between the print mechanism and the media sensor.

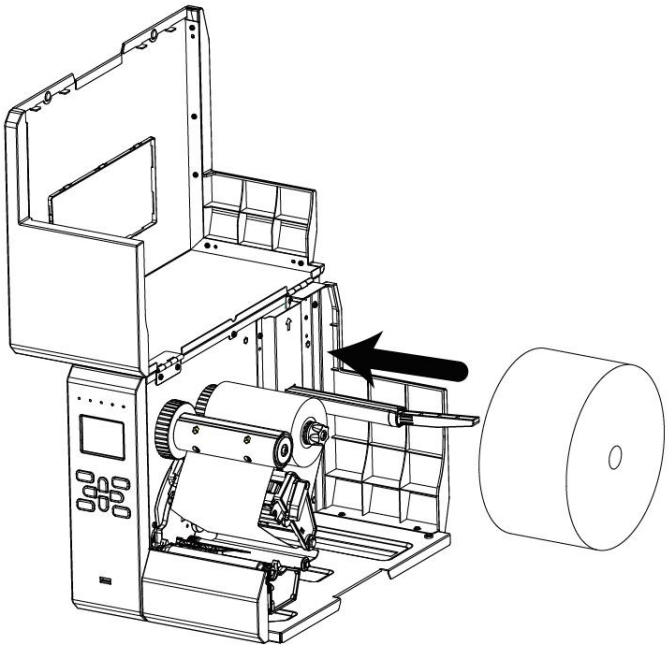


4. Pass the ribbon over the print mechanism and stick the ribbon on the take-up spindle, then wrap it several turns around the ribbon take-up spindle.

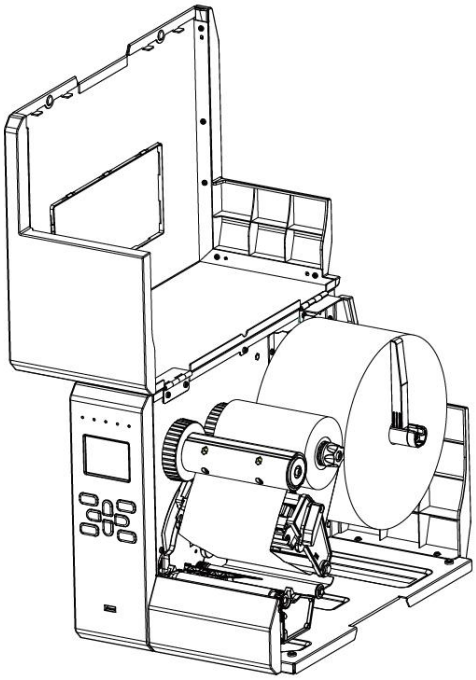


3.1.2 Media Loading

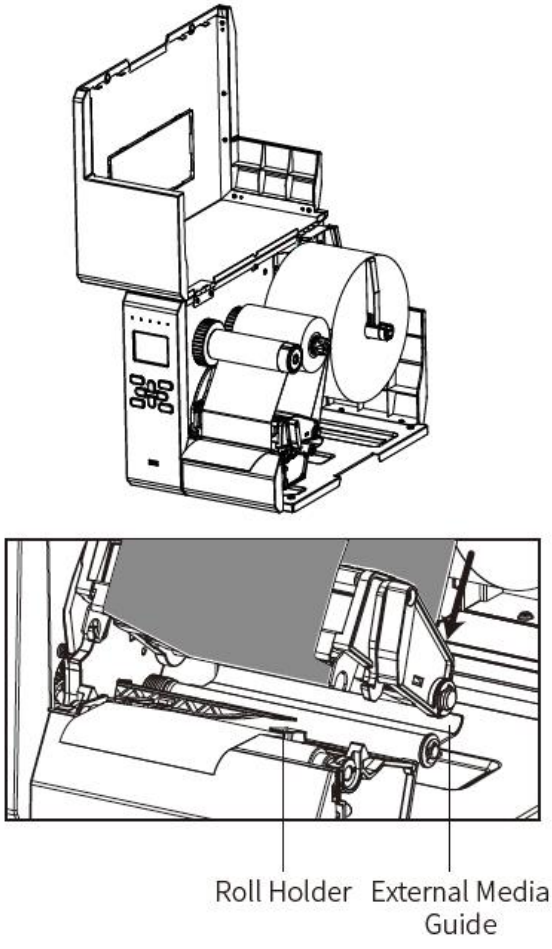
1. Lower the paper roll baffle, align the paper with the media spindle, and then lift the paper roll baffle.



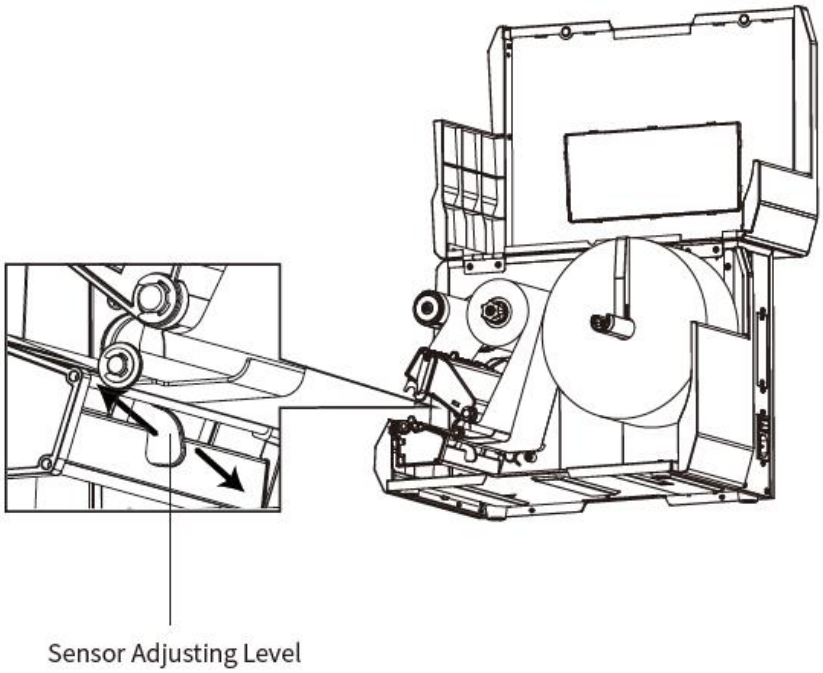
2. Push the paper roll baffle inward until it engages the paper roll. Pull a part of ribbon, then pass the ribbon between the print mechanism and the media sensor.



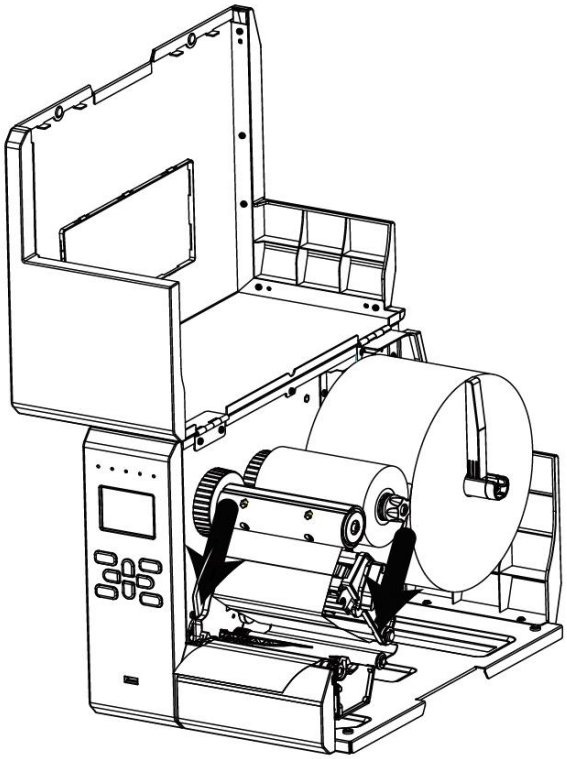
3. Push the paper holder inward to adjust for the label width.



4. When using the gap label, black mark label or punch hole label, you can manually adjust the media sensor by the adjusting level to find the gap, black mark or punch hole for the detecting print position.

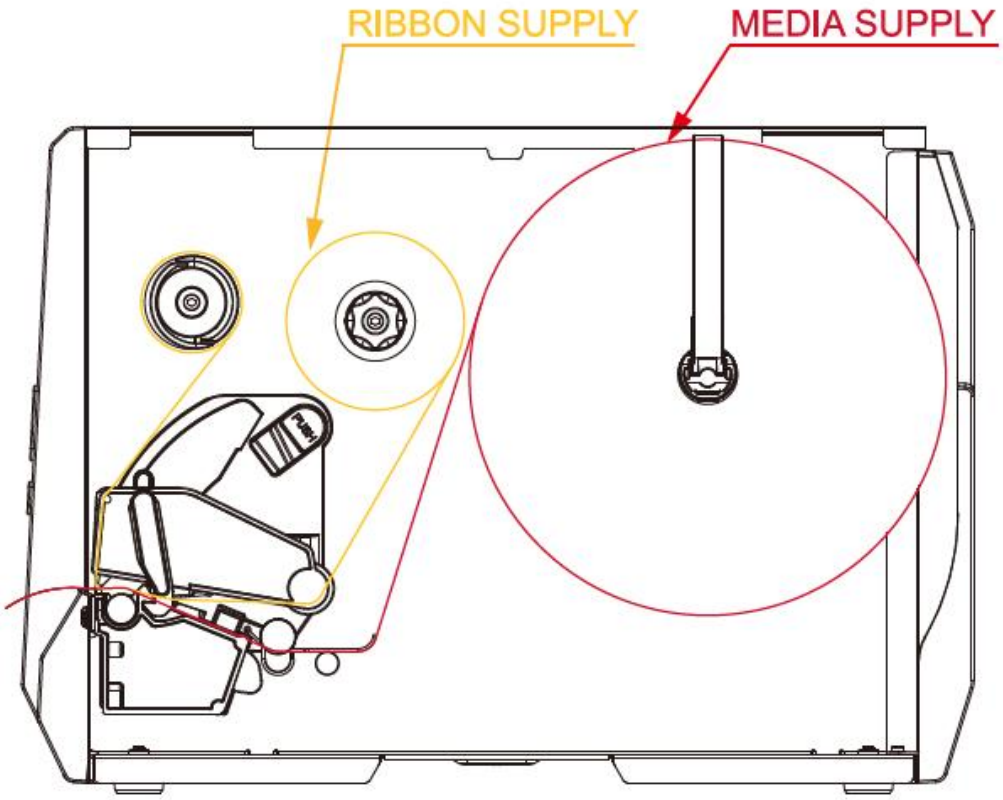


5. After finishing the label loading, press the print head down to make ribbon and label fit snugly.

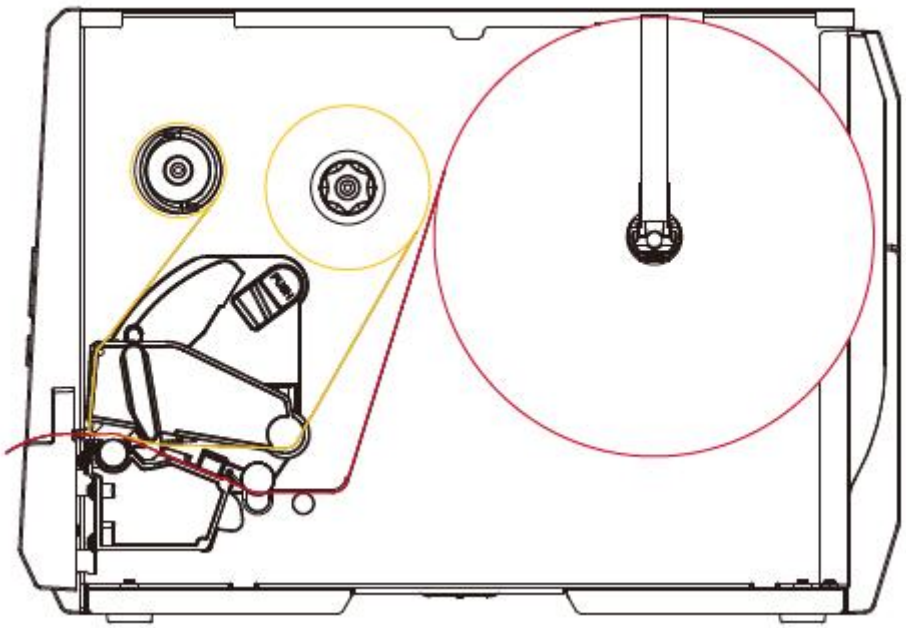


3.1.3 Media Path

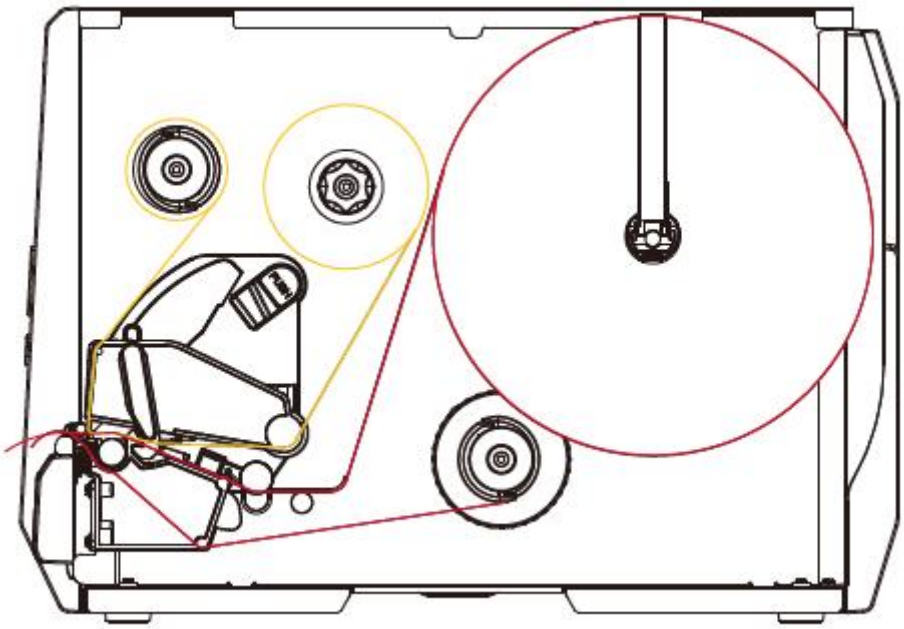
1. TEAR-OFF mode



2.CUTTER mode



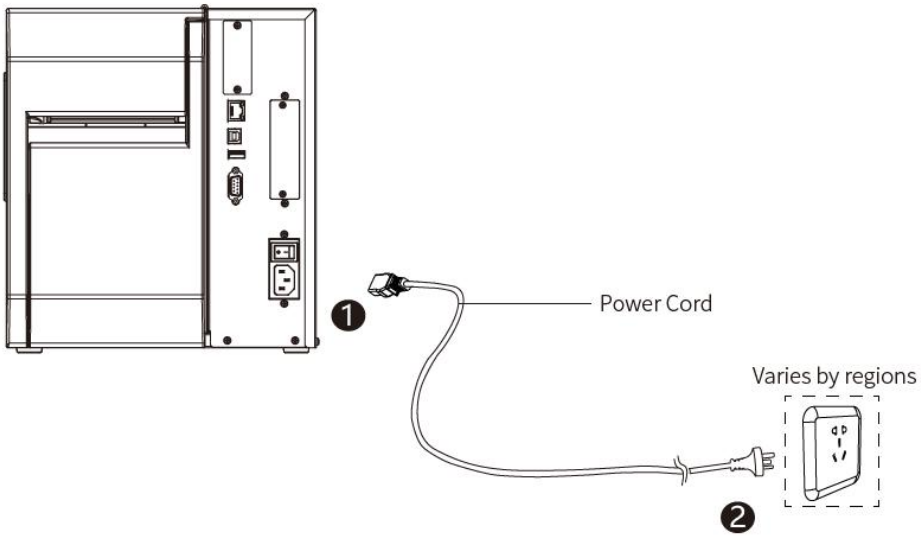
3. PEEL-OFF/REWIND mode



3.2 Power Connection

1.Connect the power plug to power receptacle.

2.Connect the other end of power cord to the AC power port.



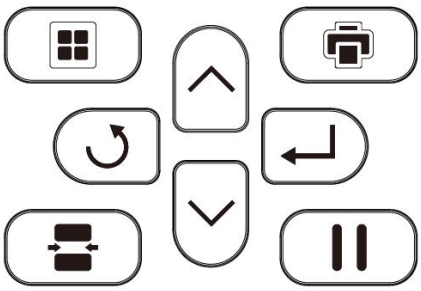
Caution:

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

3.3 Operation Panel

3.3.1 Panel Introduction

The panel indicates the printer's operating status and allows the user to control basic printer operation.



3.3.2 Button Function Definition

1. Menu button:

   In standby, long press the menu operation function to enter the display.

2. Calibration button:

   In standby, short press the Calibration button to activate the media calibration function.

3. Pause button:

   - In Printing: short press to pause printing, long press to clear current print task.
   - Printing Pause: short press to keep printing, long press to clear current print task.

4. Feed button:

   - In the ready state, press the Feed button *(<1 seconds),* then release the feed button. The printer will make a blank paper positioning according to label / black mark label. If it is continuous paper, press the Feed button and the printer will continue to feed the paper. Release the paper feed button to stop printing immediately.
   - In the ready state, press the Feed button *(approx. 1.5 seconds)* until the ready indicator is out for the first time. And the printer prints the self-test page.
   - In the ready state, press the Feed button (approx. 3 seconds) until the ready indicator is out for the second time. And the printer starts gap mode label learning.
   - In the ready state, press the Feed button (approx. 4.5 seconds) until the ready indicator is out for the third time. And the printer starts black mark mode label learning.
   - In the ready state, press the Feed button (about 6 seconds) until the ready indicator is out for the third time. Release the Feed button, and the printer enters data dump mode.
   - In the dump mode, press the Feed button, and the printer will print "Out of Dump Mode Now" and then return to the normal printing mode.

3.3.3 Buzzer

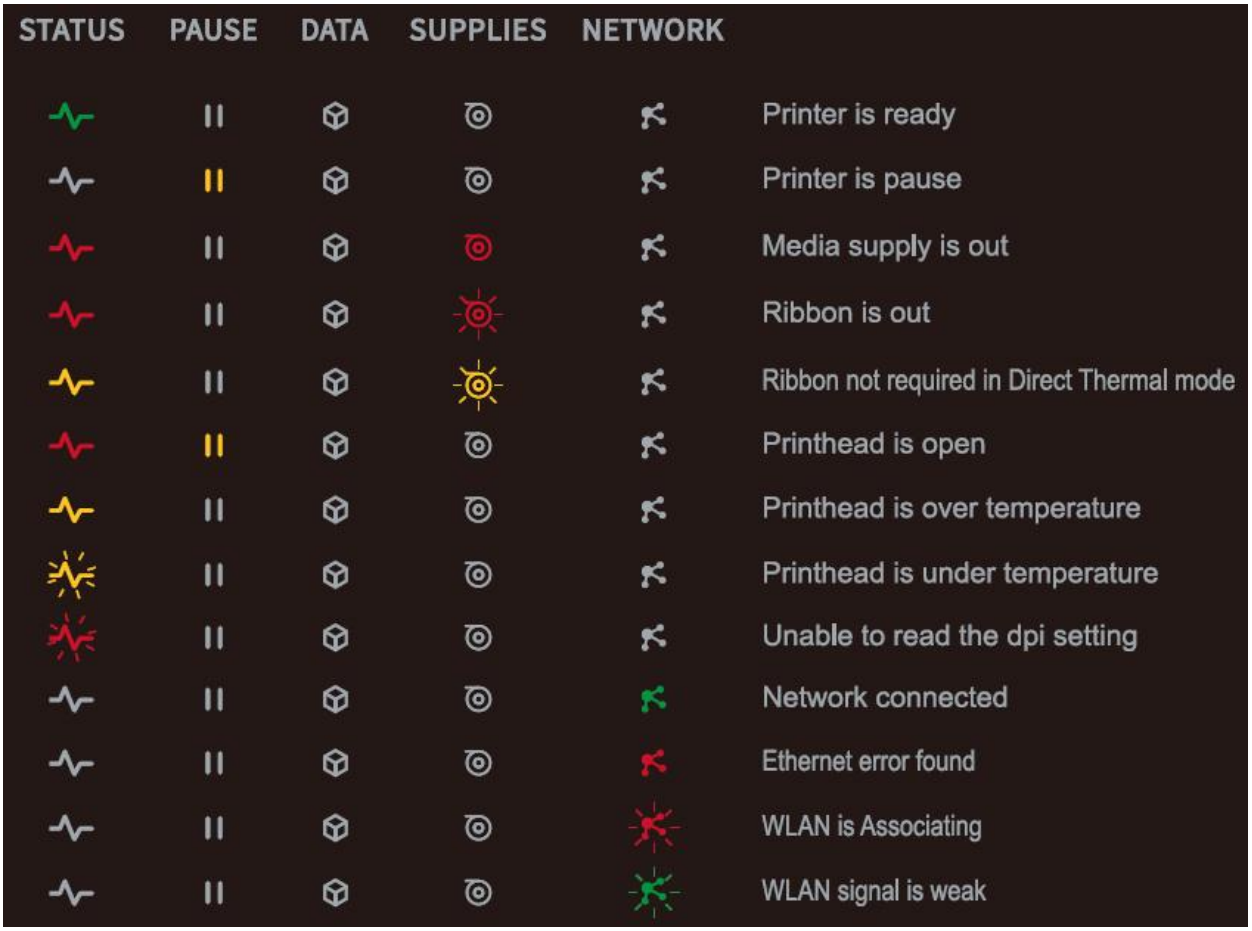
1. Silence: not set / normal

2. Beep 0.2 seconds: button response / touch response / close the mechanism

3. Beep 0.2 seconds, stop 0.2 seconds and beep 0.2 seconds: open the mechanism

3. Beep 0.5 seconds, stop 0.5 seconds, beep 0.5 seconds, stop 0.5 seconds and beep 0.5 seconds: during printing, run out of paper / label off / paper jam / cutter jam / run out of ribbon

3.3.4 Indicator Definition



3.5 Display Operation Procedure

Note:

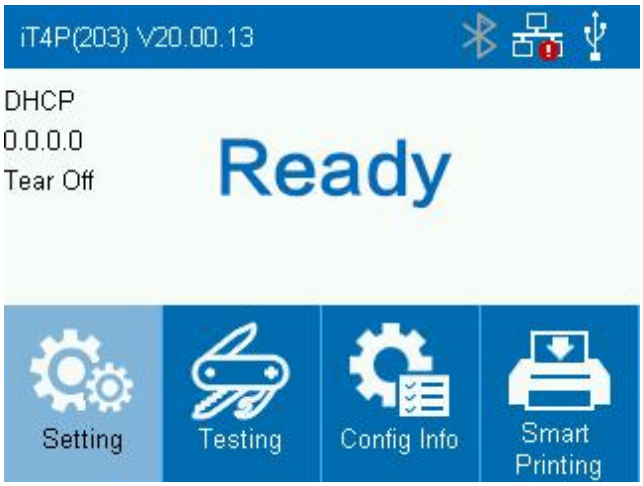
- **The display operation of printer BP 4210i&BP 4308i is controlled by directional pad.**
- **The highlighted item represents that user has chosen the item needed.**

In the following instructions, the example will be taken to show user how to operate the printer.

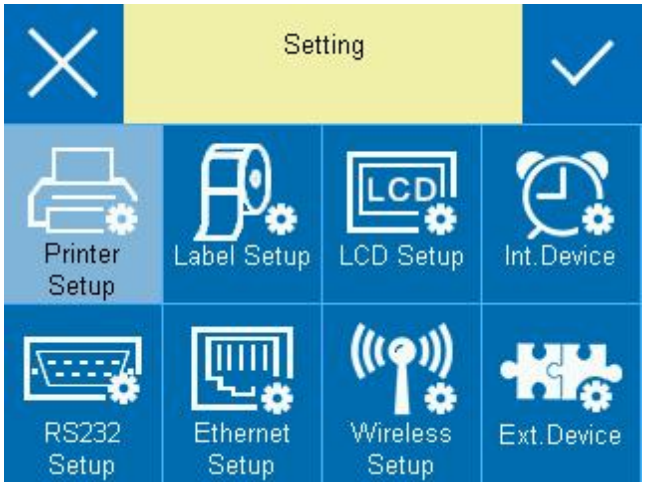
Changing the speed of the printer:

1.Press the power button to open the printer's power.

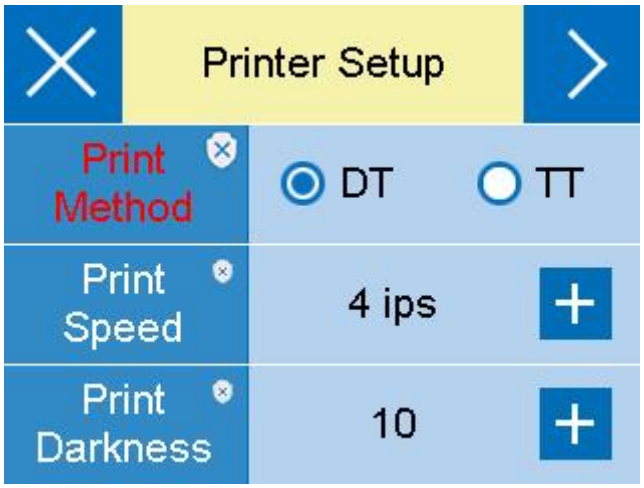
2.Press the menu button to enter the home menu, then choose the "Setting" item.



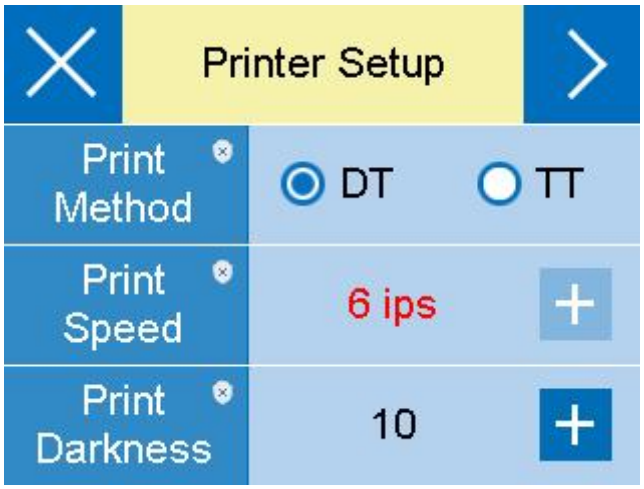
3.Enter the setting menu, then choose the "Printer Setup" item.



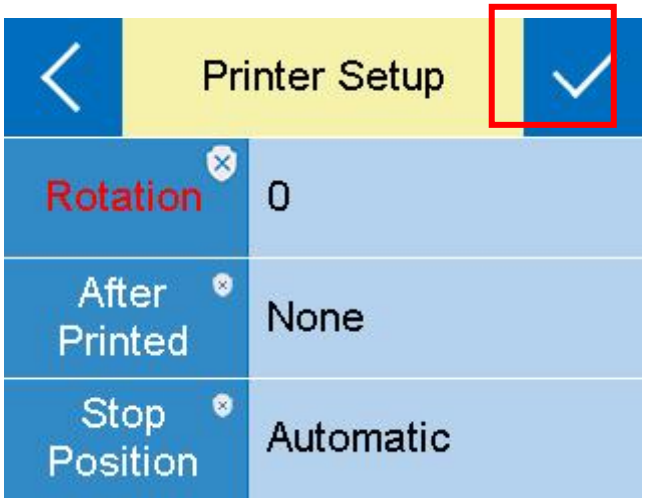
4.Enter the “Printer Setup” menu.



5.Move the selection highlight to “Print Speed” item by down arrow button. Then change it into the value needed by enter button.



6.Press the tick to save the values that have been changed.



Finishing the above operation, user has changed the speed of the printer successfully.

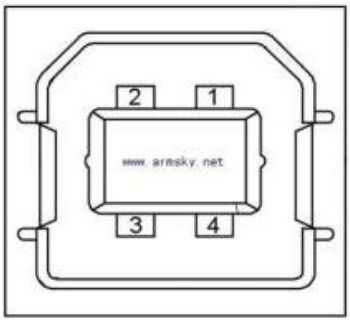
Note:

- **Much more detailed information of display menu needed, please refer to the appendix in the end.**
- **Pictures above are for your reference, and the display shows as the real printer does.**

Chapter 4 Interface

4.1 USB Interface

USB (Type B)

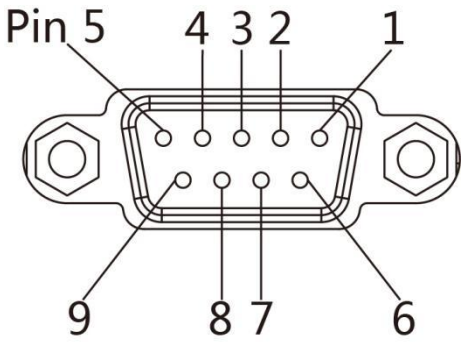


PIN	SIGNAL NAME
1	VBUS
2	D-
3	D+
4	GND

USB Host

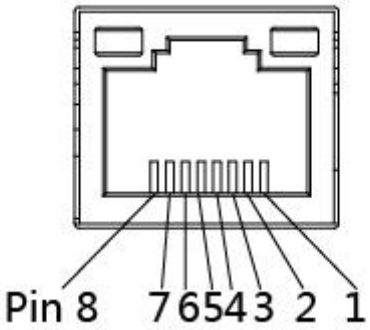
4.2 Other Optional Interfaces

■ Serial Port



PIN	SIGNAL NAME	SIGNAL DIRECTION
1	-	NO CONTACT
2	TXD	OUTPUT
3	RXD	INPUT
4	-	NO CONTACT
5	GND	GROUNDING
6	RTS	OUTPUT
7	CTS	INPUT
8	RTS	OUTPUT
9	-	NO CONTACT

■ Ethernet Port



PIN	SIGNAL NAME
1	TX+
2	TX-
3	RX+
4	-
5	-
6	RX-
7	-
8	-

Chapter 5 Maintenance & Adjustment

Adhesives and coatings of the media can transfer to the printer parts over time along the media path including the thermal print head and media sensor. This build-up can accumulate dust and debris. Failure to clean the print head, media path, and media sensor could result in inadvertent loss of labels, label jams and possible damage to the printer.

Note:

- Make sure to turn off the printer prior to cleaning.
- As the print head gets hot during printing, if intending to clean the print head, turn the printer off and wait approximately 2~3 minute before commencement.
- 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. It is strongly recommended to wear hand gloves during cleaning progress.
- Take care not to allow the print head become scratched and/or damaged in any way.

5.1 Cleaning Thermal Print Head

Thermal Paper stock on the print head, which degrades print quality. Clean the print head with methanol or isopropyl alcohol and a cotton bud. Do not touch the heating elements with your fingers.

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 two sides.
2) After cleaning the head, do not use the printer until the alcohol used for cleaning evaporates completely (1~2 min) and the printer has completely dried.
3) Perform the cleaning process each time the paper roll is replaced to prevent print quality deterioration.

5.2 Cleaning 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

Note: Clean the parts when print's quality or label detection degrades.

Chapter 6 Printer Utility Tool Instructions

6.1 Installation Preparation

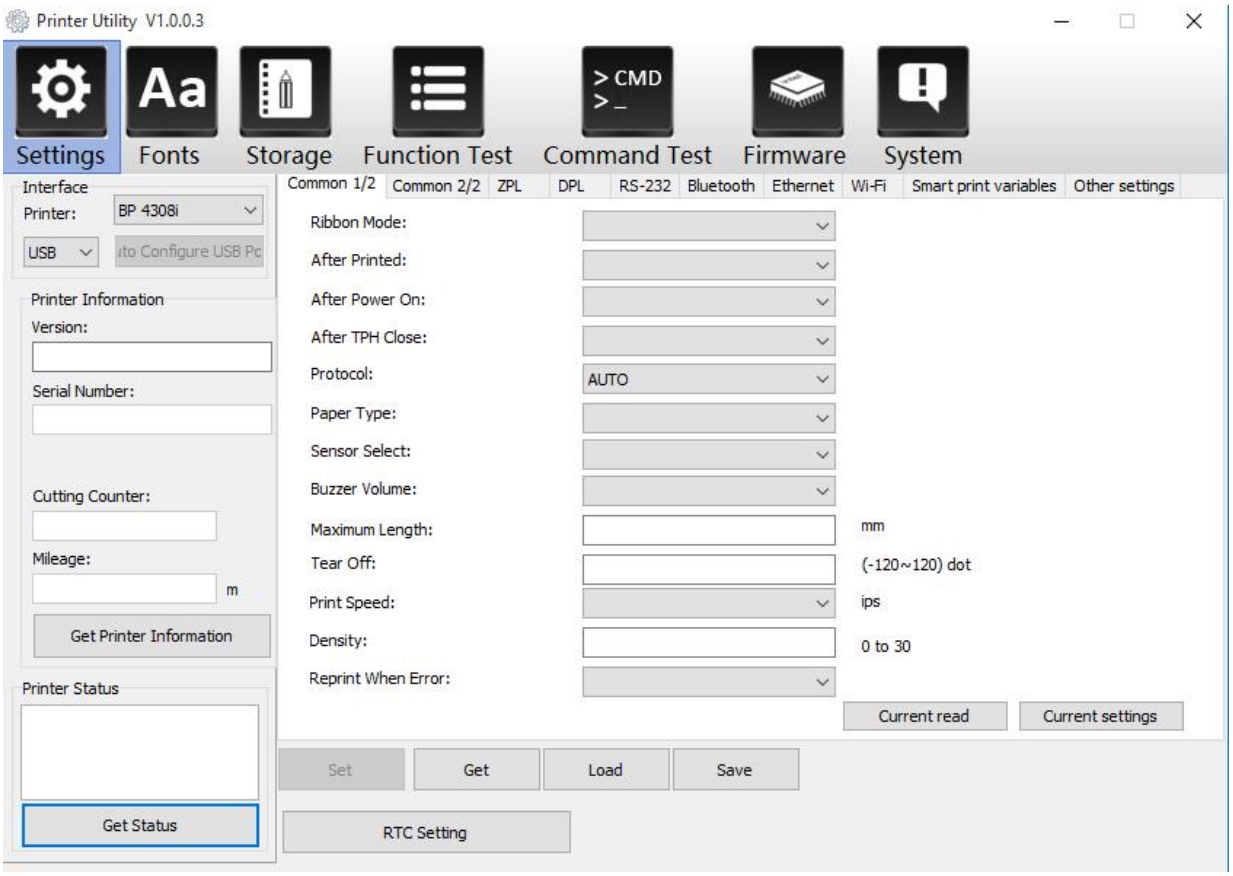
Download the printer utility tool. For example: BOXP PrinterUtility Vx.x.x.x.exe.

6.2 Usage

Note:

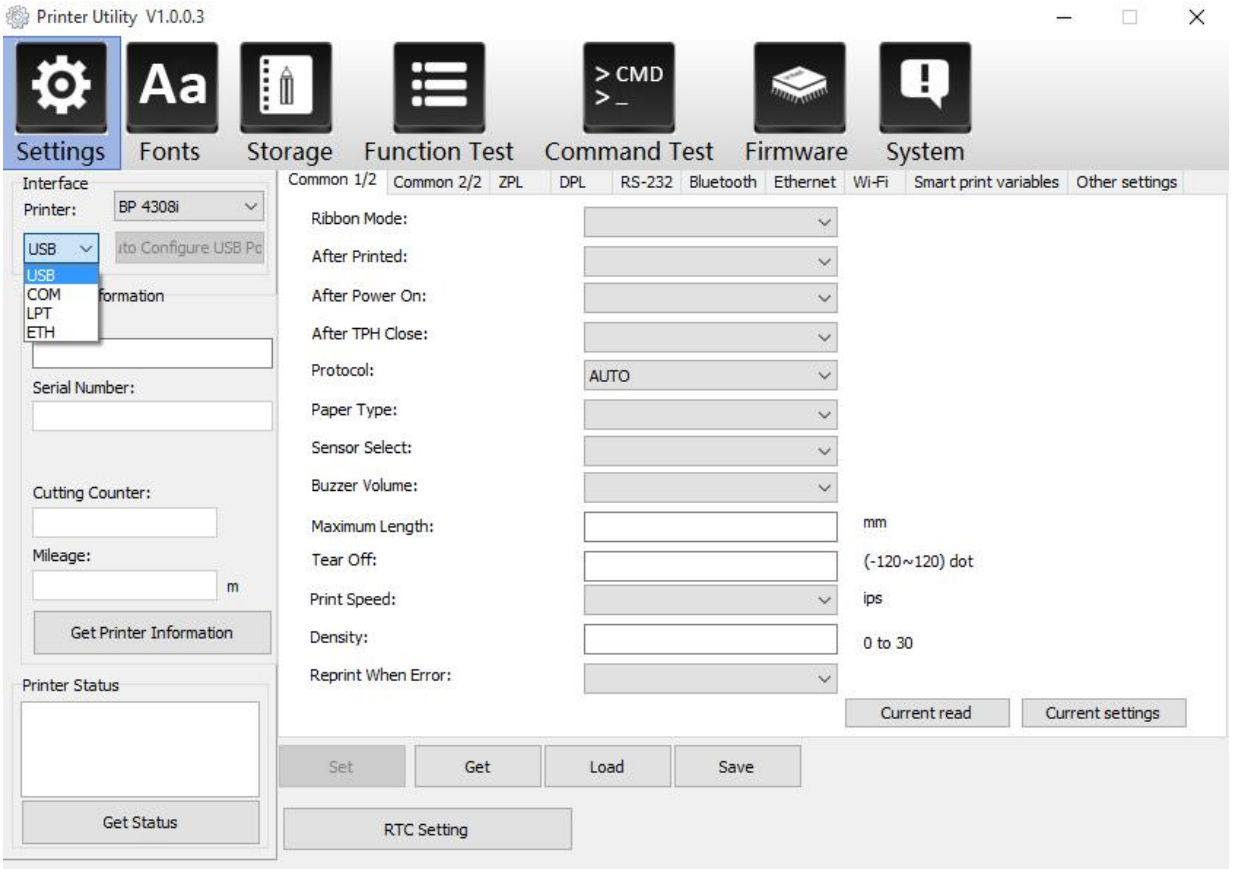
- **Under different operating system, the screen has slight difference. The following example is based on the Windows 10 operating system.**
- **It is recommended to close the relevant security protection software before installation to avoid affecting the installation of the tool.**

1. Open the printer utility tool.

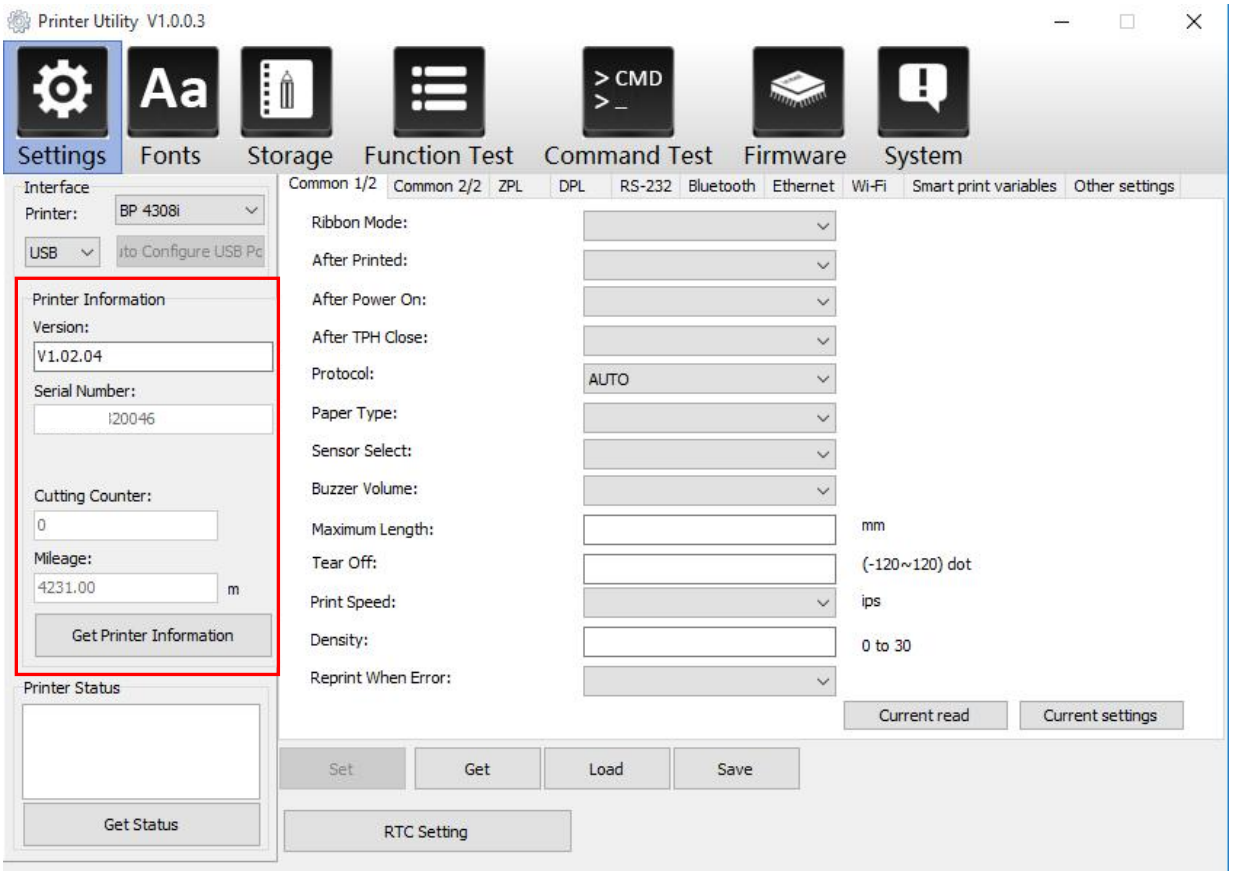


2.Click “Settings”, choose the printer model.

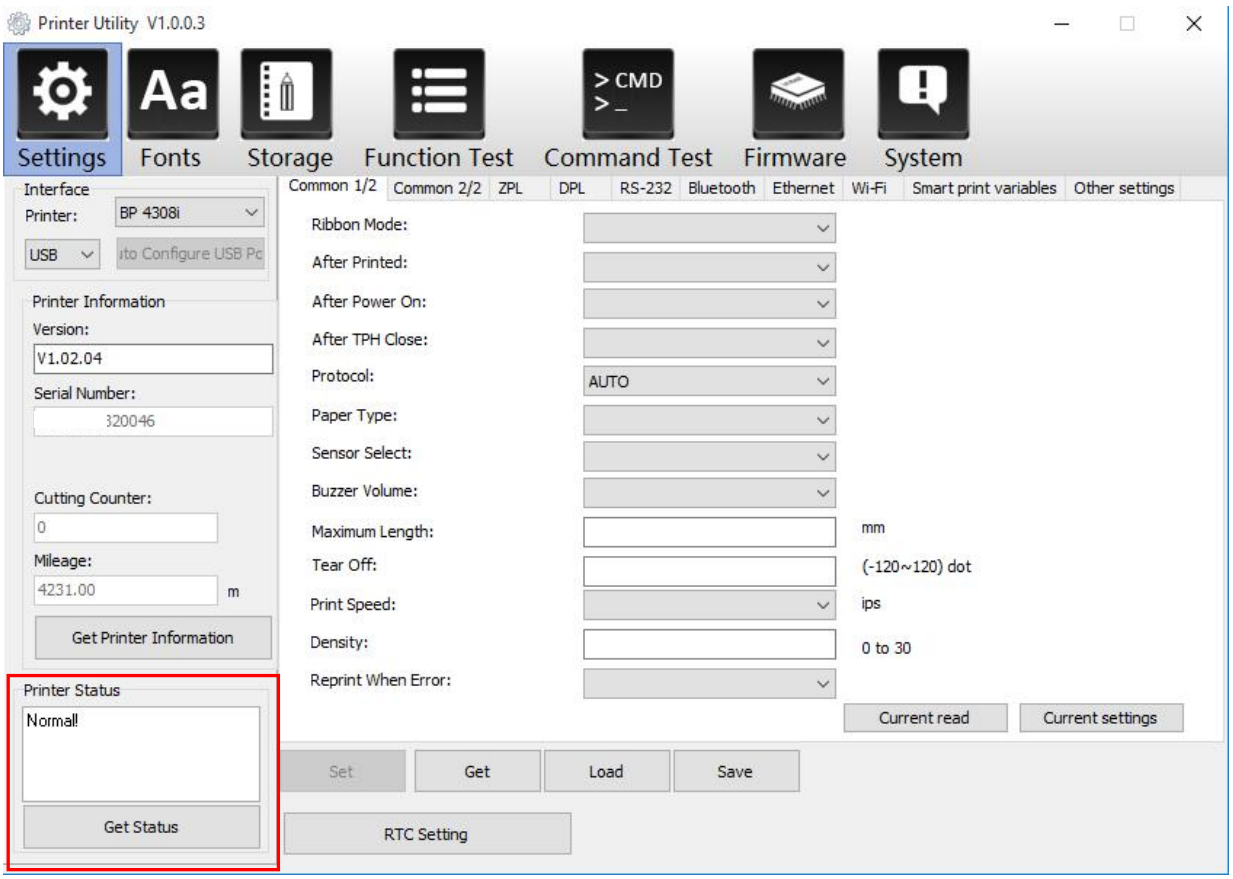
（1）Set up the interface needed. (range: USB, COM, LPT, ETH)



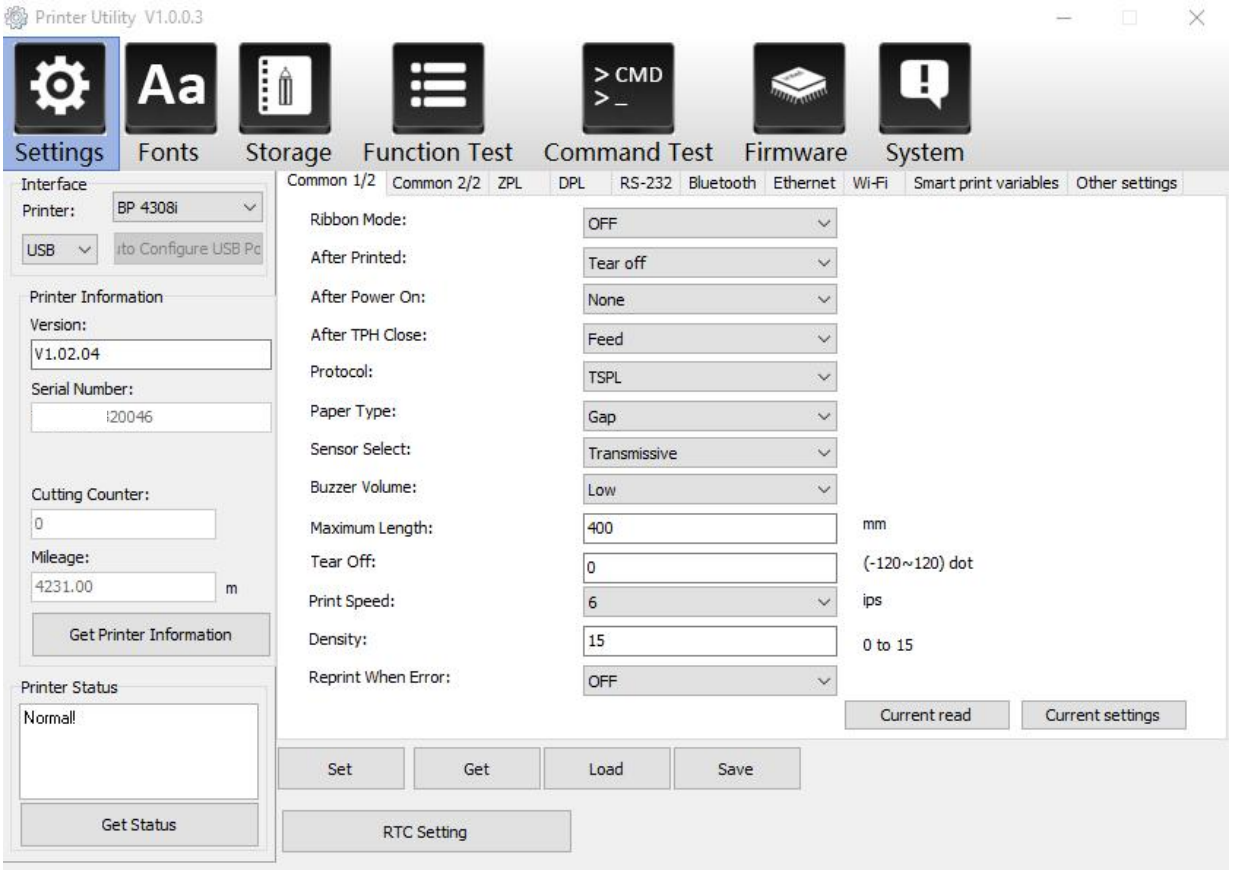
（2）Click “Get Printer Information”, and printer information will show in the above.



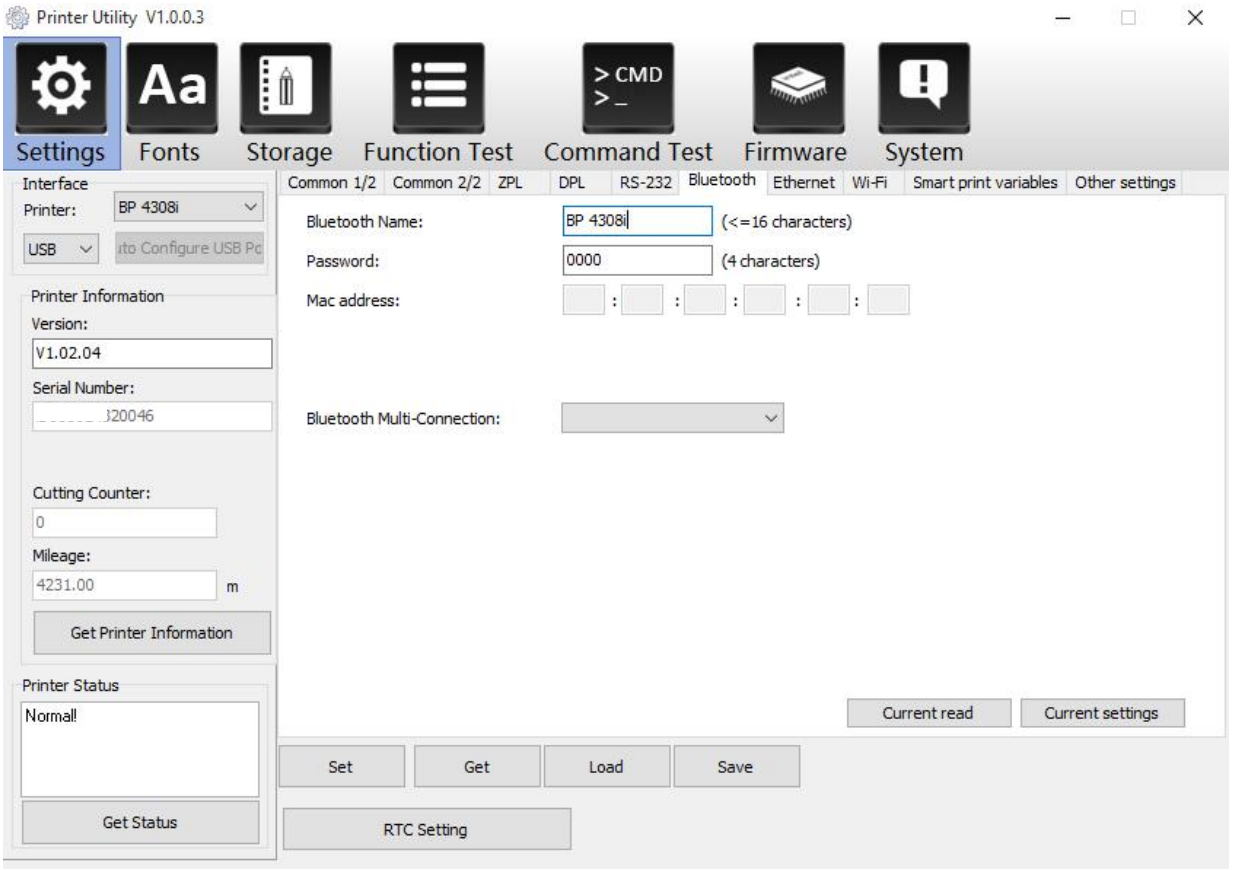
（3）Click “Get Status”, and printer status will show in the above.



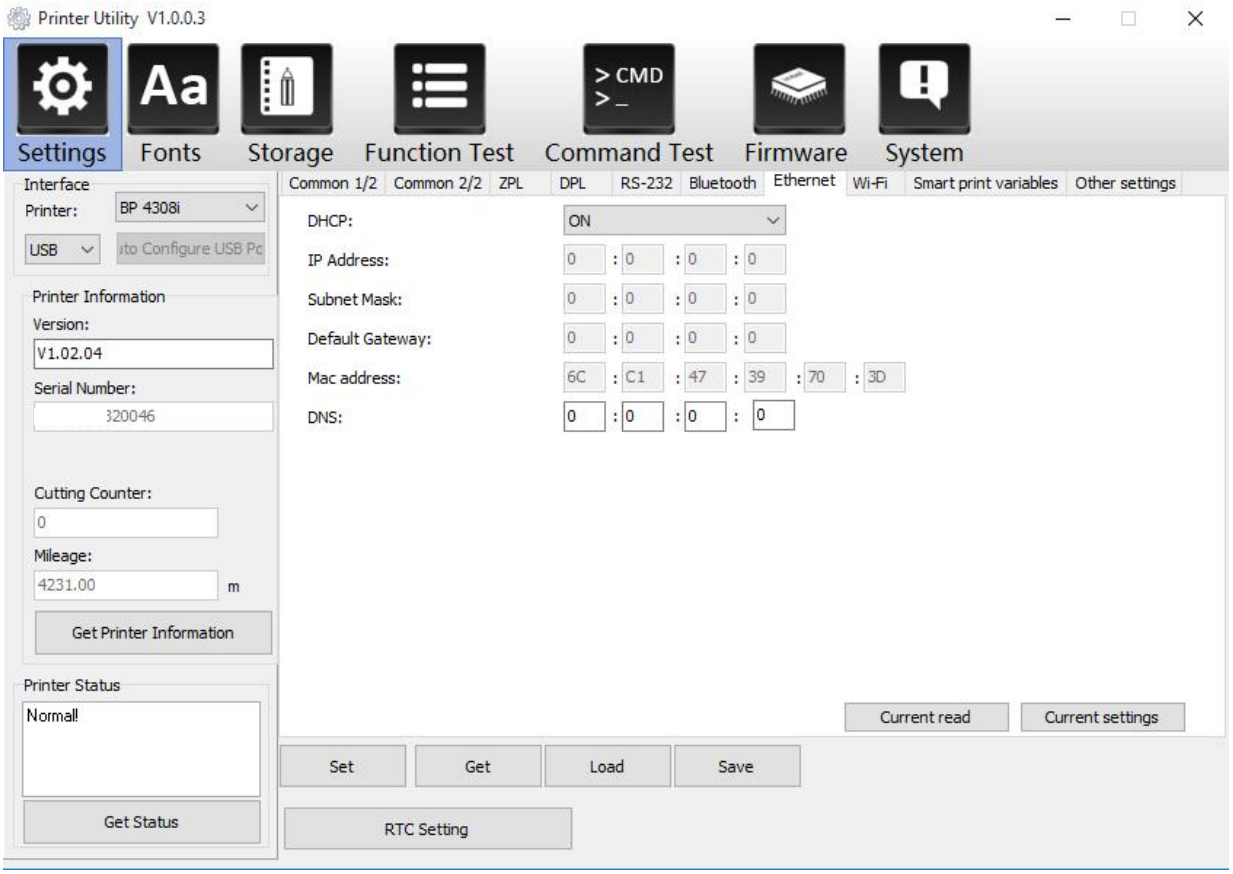
（4）Choose “Common” and click “Get”. In this menu, user can get the information about the protocol, sensor, print speed, density and so on.



Click “Bluetooth”, then set up the Bluetooth name and password.



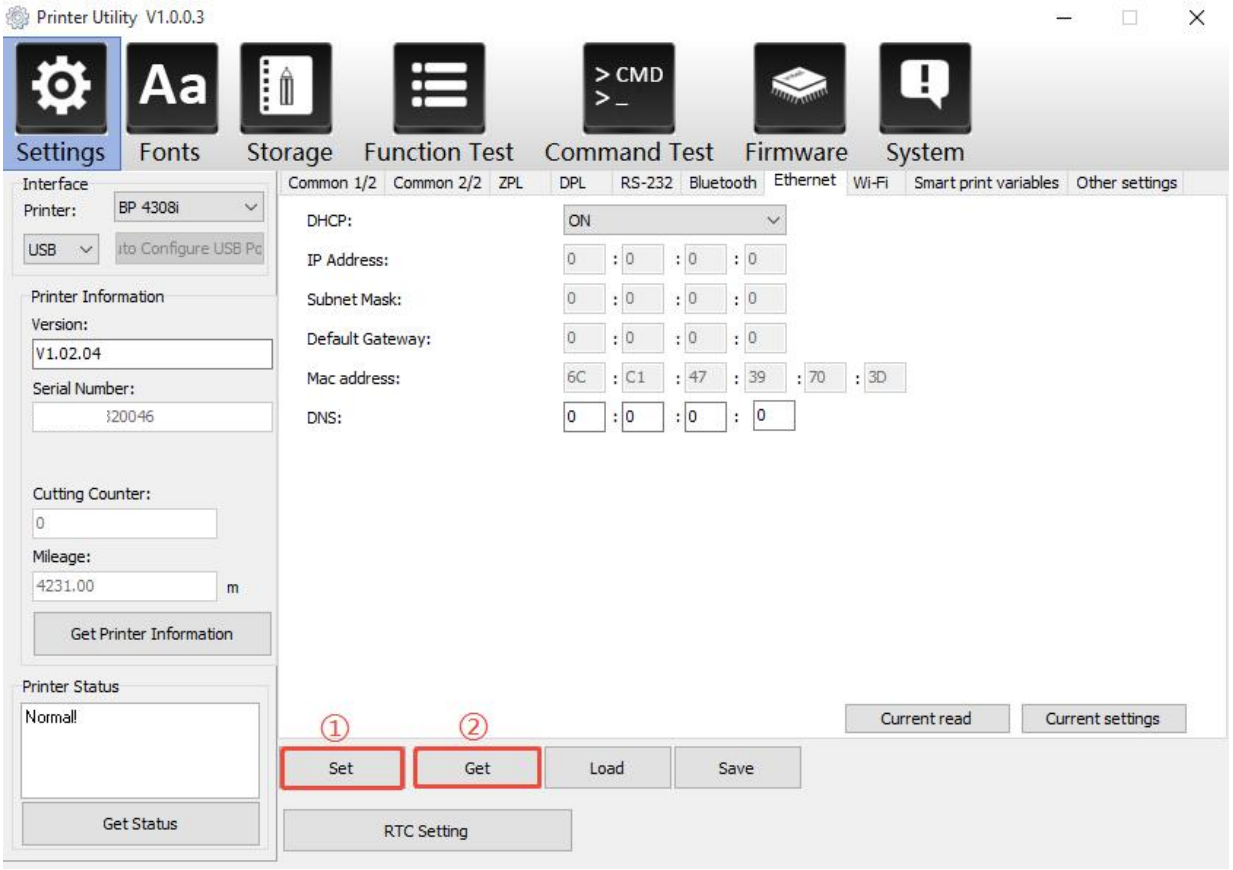
Click “Ethernet”, then click “Get” to gain the relevant values.



Note:

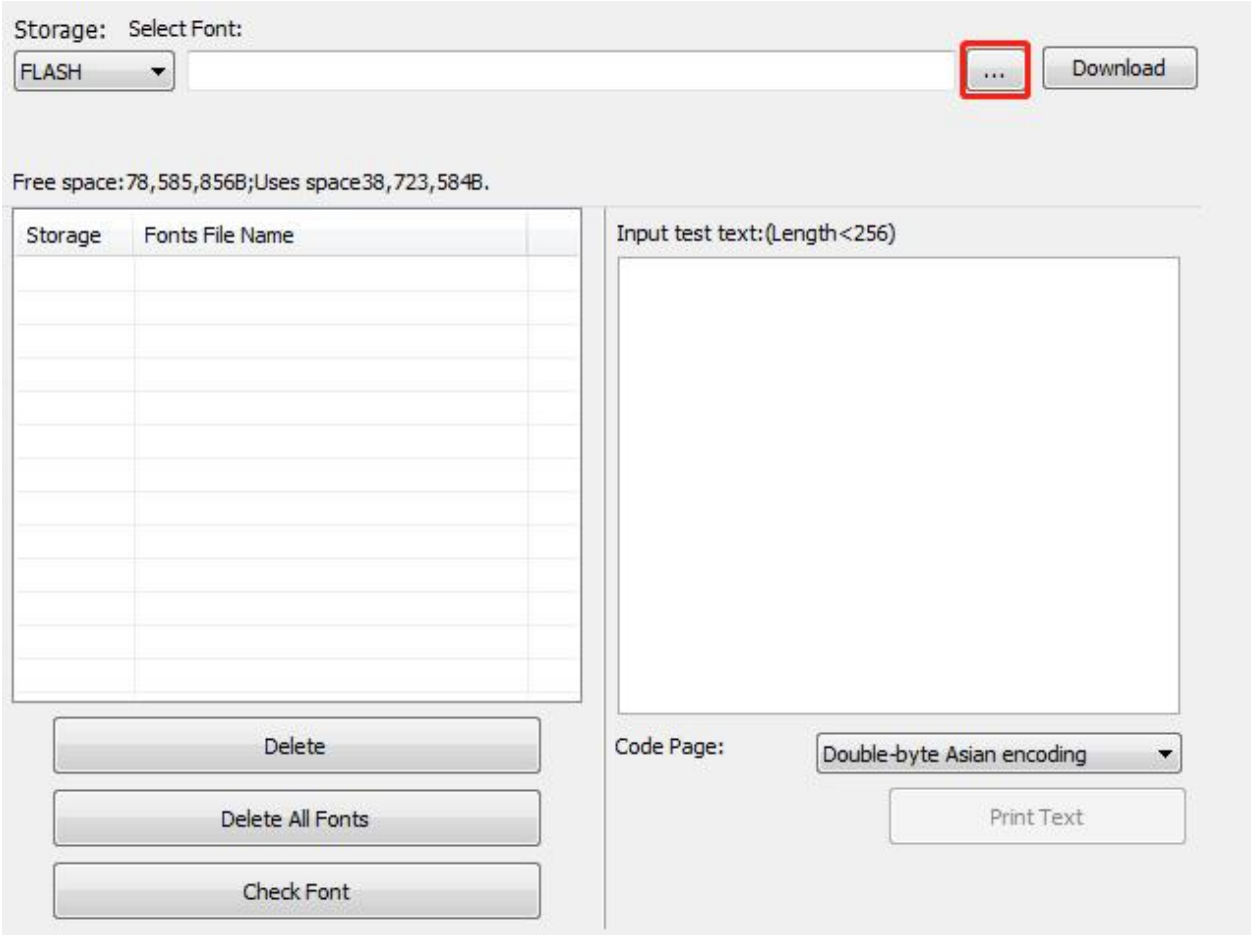
① **Finishing all the settings, user can click “Set” to save the values changed.**

② **Click “Get”, and user will get the default values.**

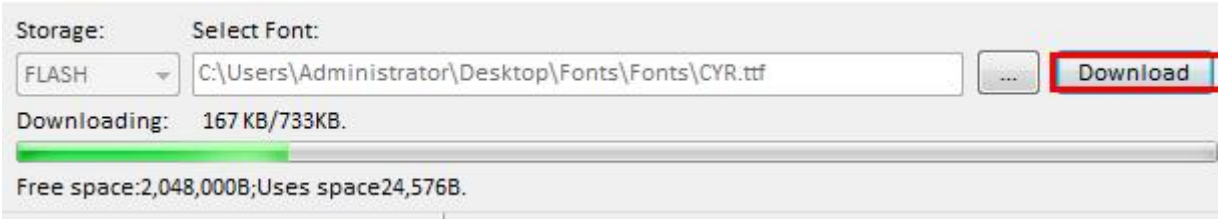


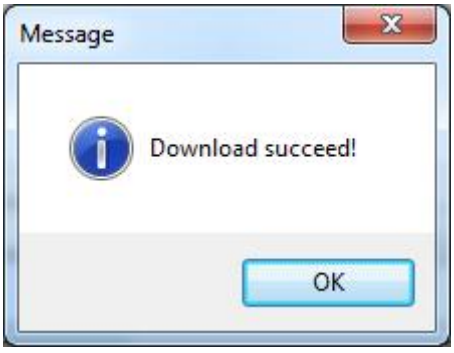
3.Click "Fonts".

(1) Click "Select Font" to select the vector font you want.

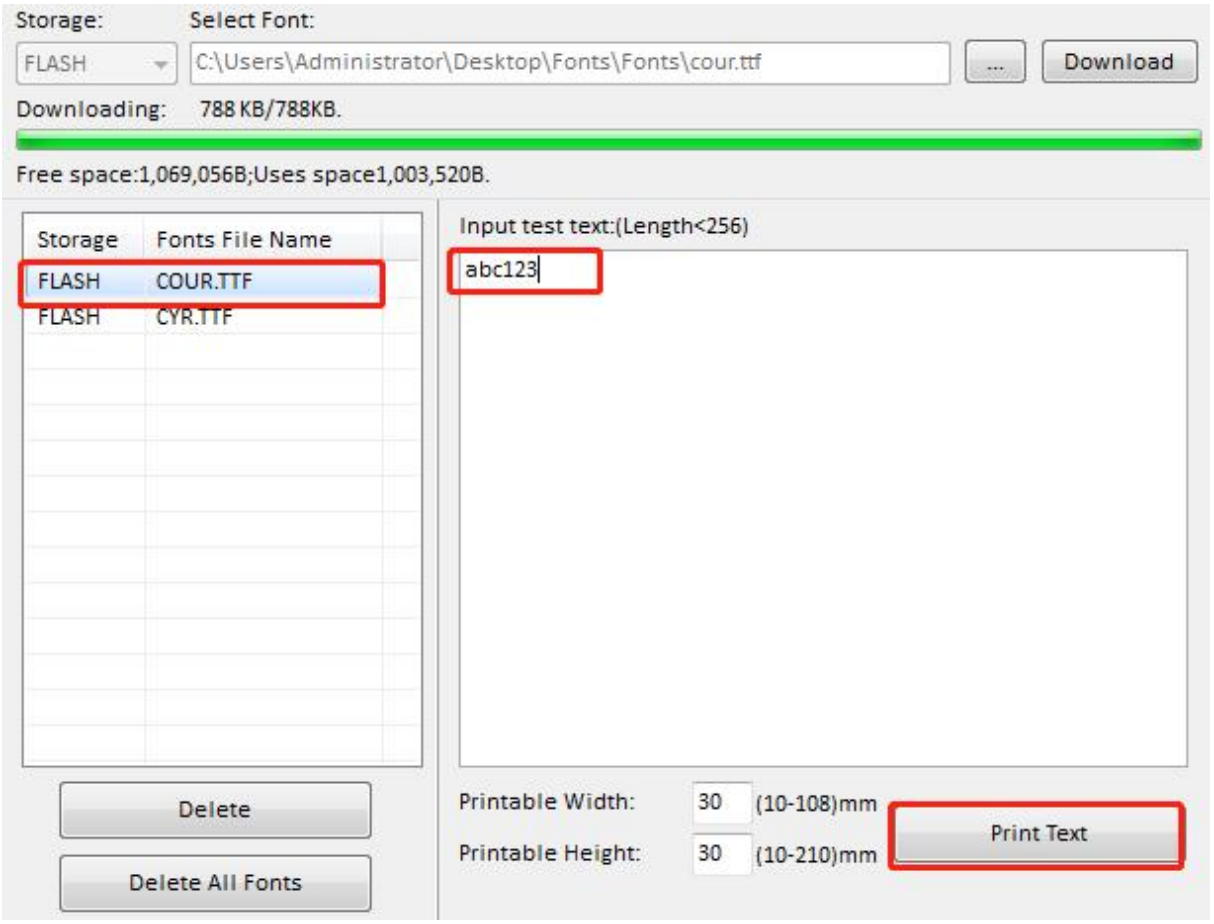


(2) Click "Download" (Note: The font file name must be in English or number).

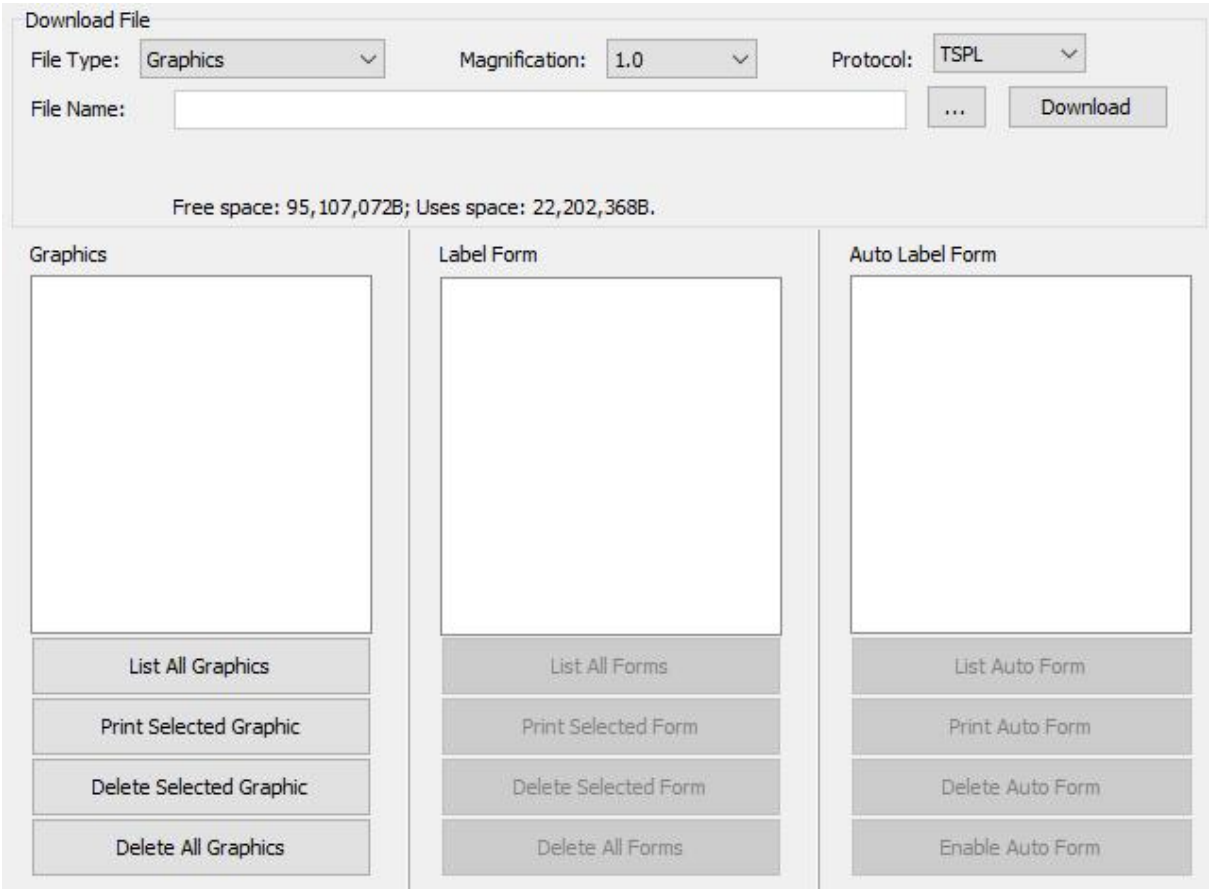




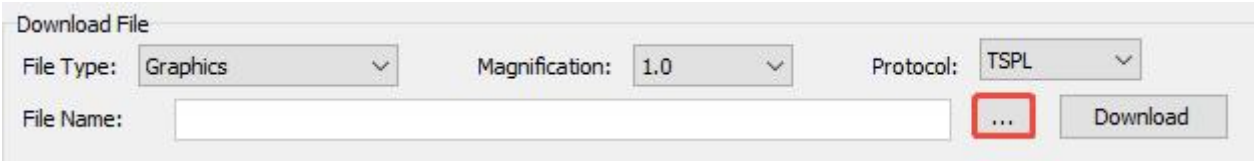
(3) Select the downloaded font file, enter the print content in the text box, and click “Print Text”.



4.Click “Storage” to print image. (The file name can only be English or numeric.)



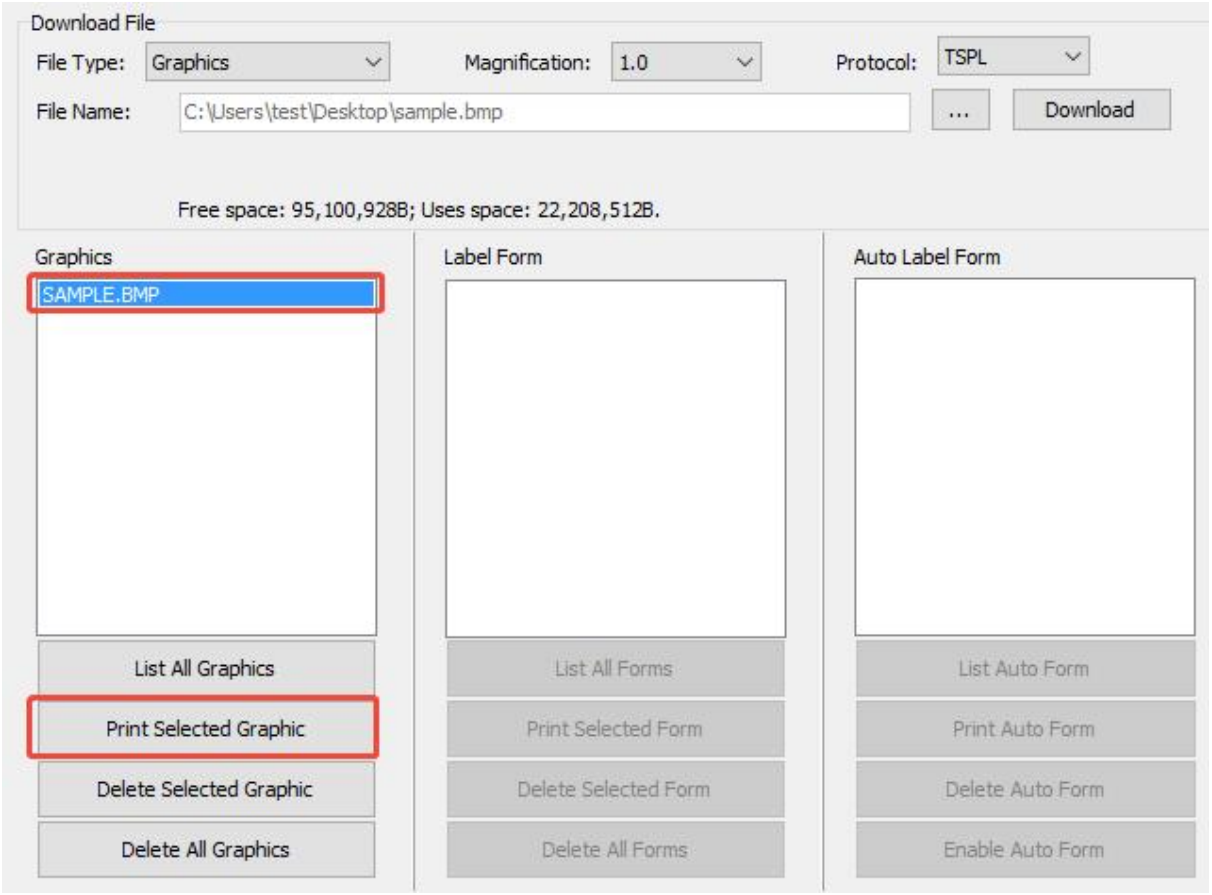
(1) Click "File name" to select the image.



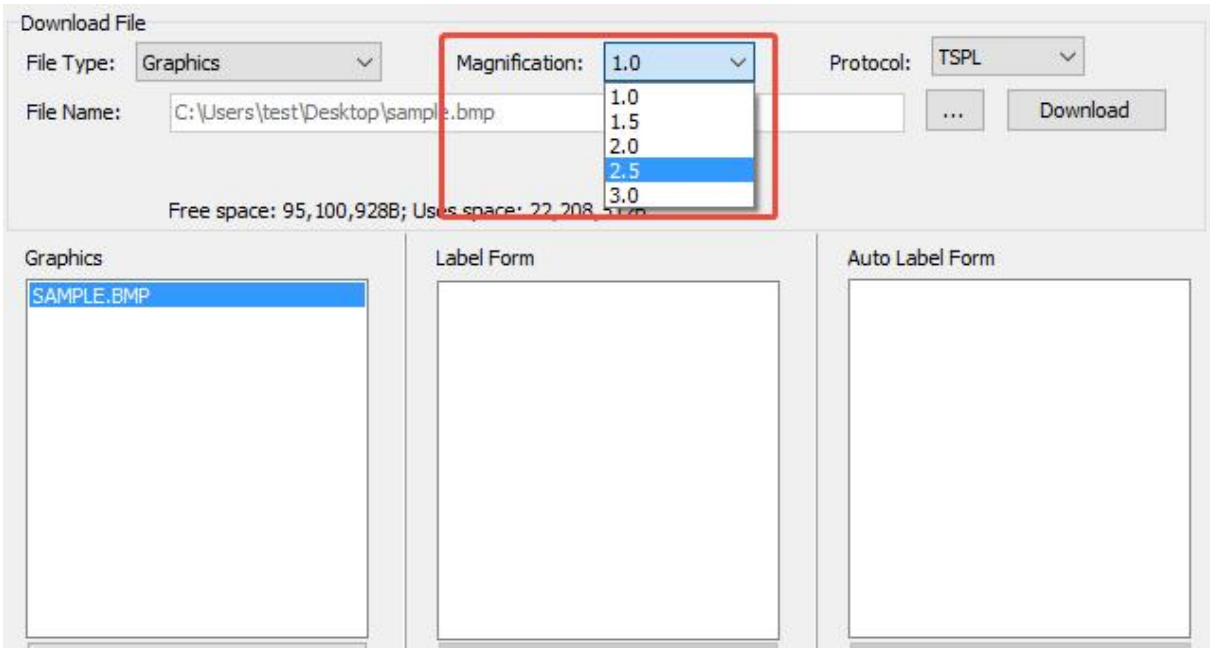
▲Note: The file name must be in English or number, and the filename length must be less than 32.

(2) Click “Download”.

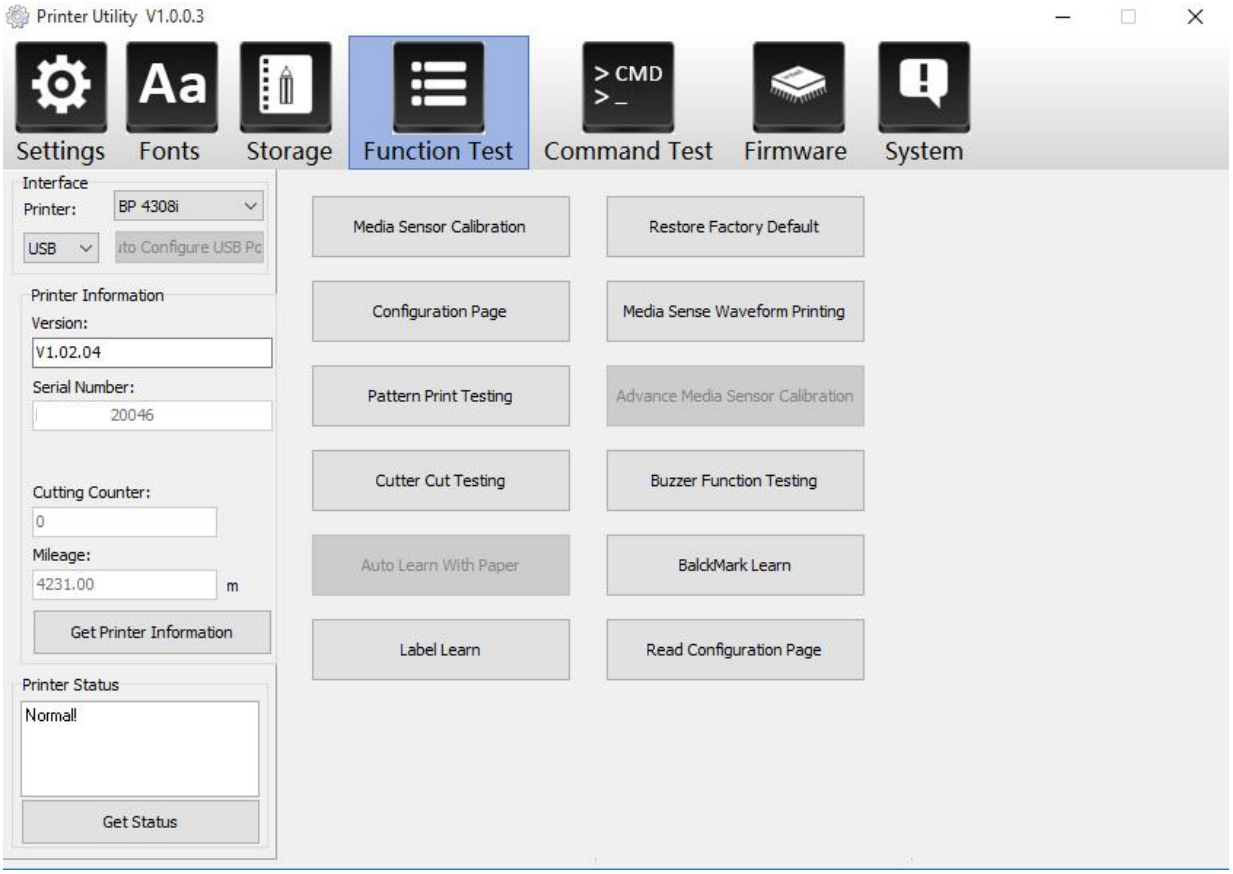
(3) Select the downloaded graphic, and then click “Print Selected Graphic” to print the picture.



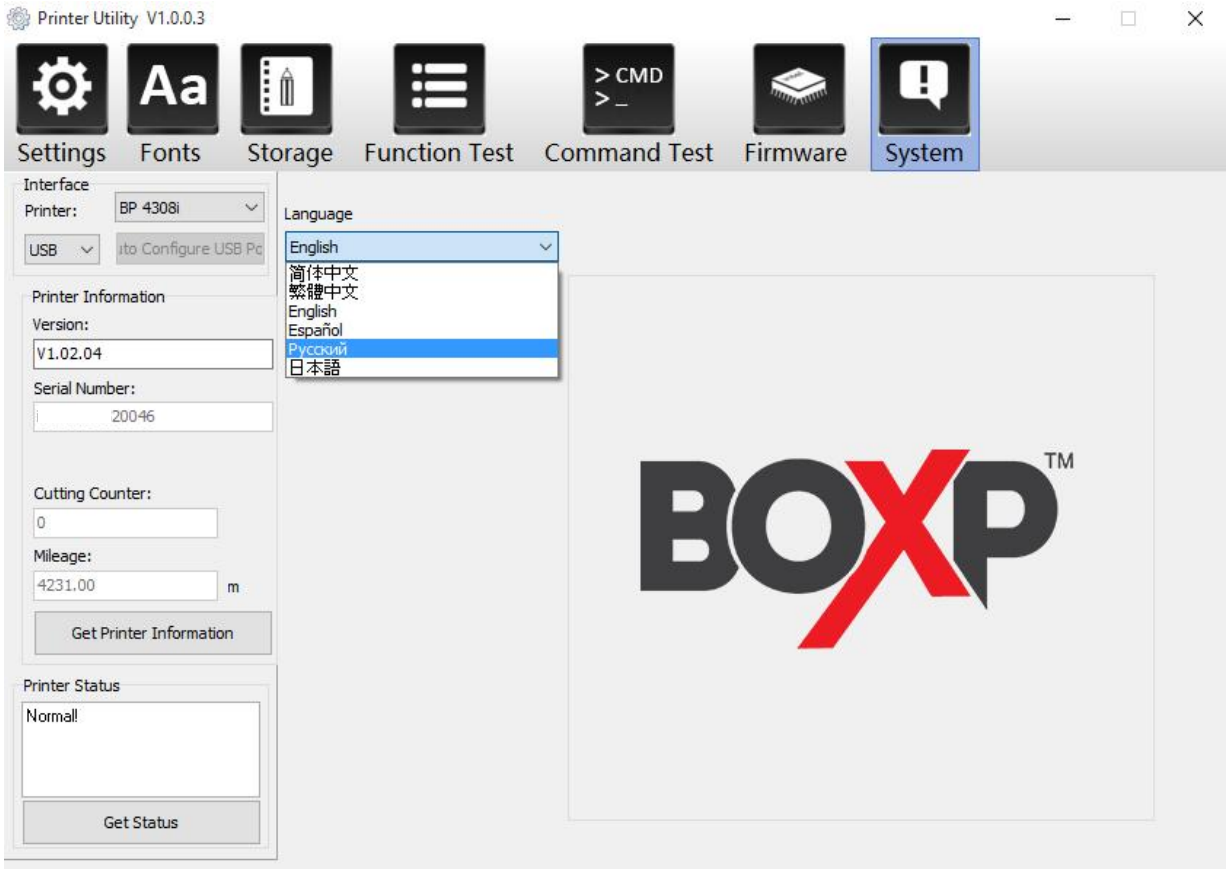
(4) You can set a magnification of the graphic as needed.



5. Click “Function Test”. User can carry the followings such as sensor calibration, pattern print testing and so on.



6.Click “System”. Click “language” and choose the language of printer utility.



Chapter 7 Seagull Windows Driver Instructions

7.1 Introduction

The following operating systems are supported for usage.

- Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows 10
- Windows Server 2008, 2008 R2, 2012, 2012 R2, 2016
- 32-bit and 64-bit（x64）editions.

7.2 Windows Driver Preparation

Download Seagull Windows Driver application.

7.3 Driver Installation

Note:

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

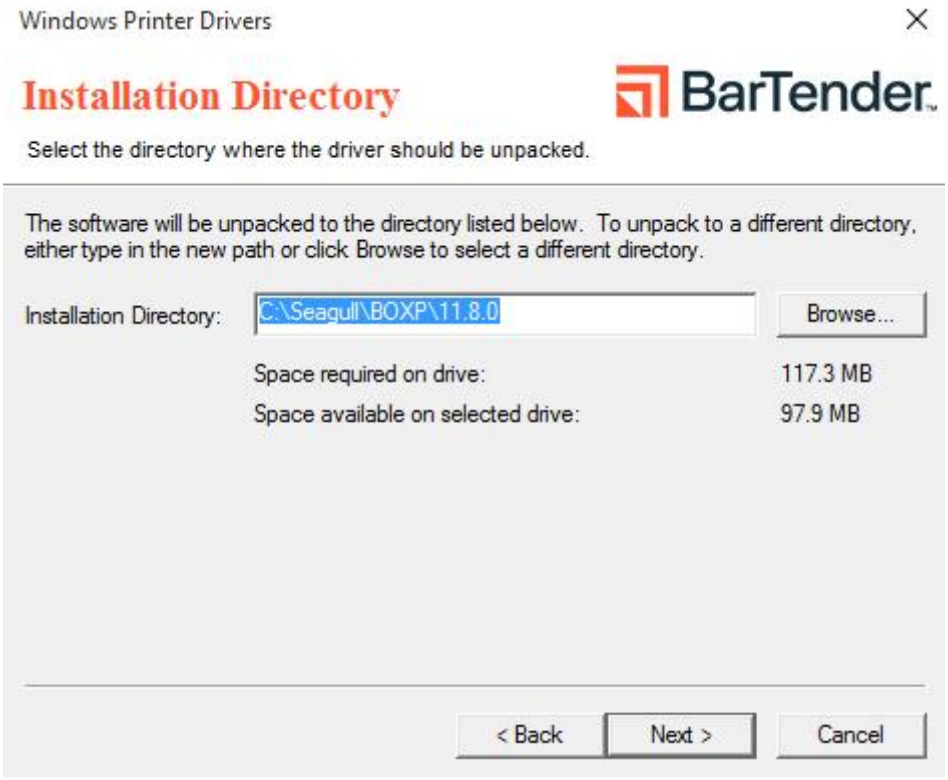
1.Select one interface to connect your printer to computer.

2.Turn on the printer check if it successfully connected to computer.

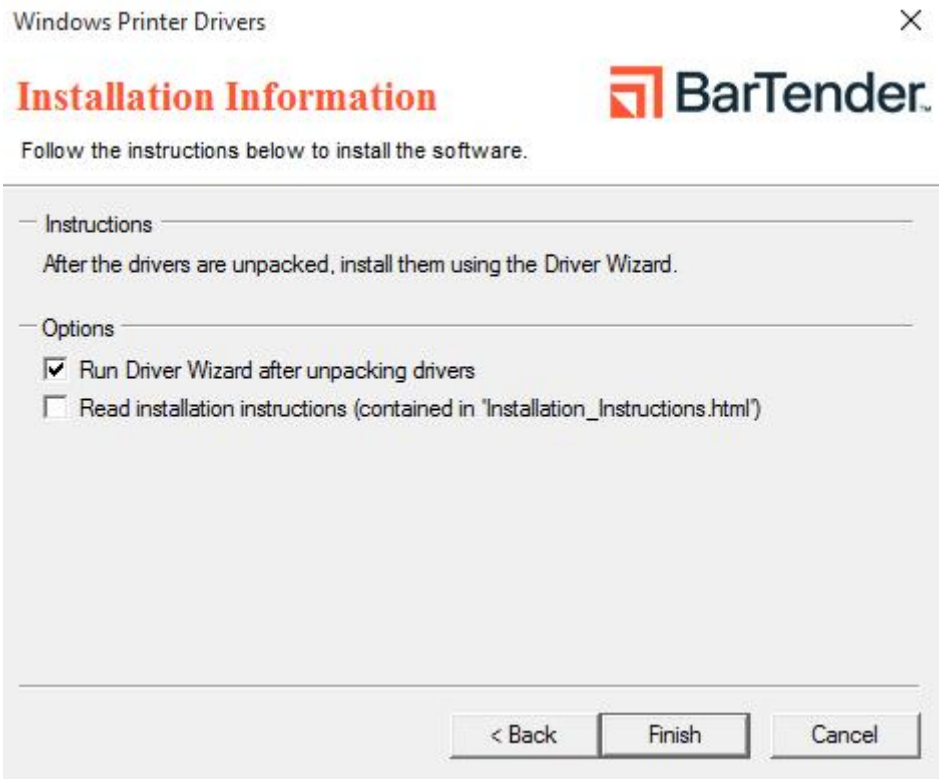
3.Double click Seagull Windows Driver.

4.Read and agree the license agreement. Then click “Next”.

5.Choose the installation directory, then click “Next”.



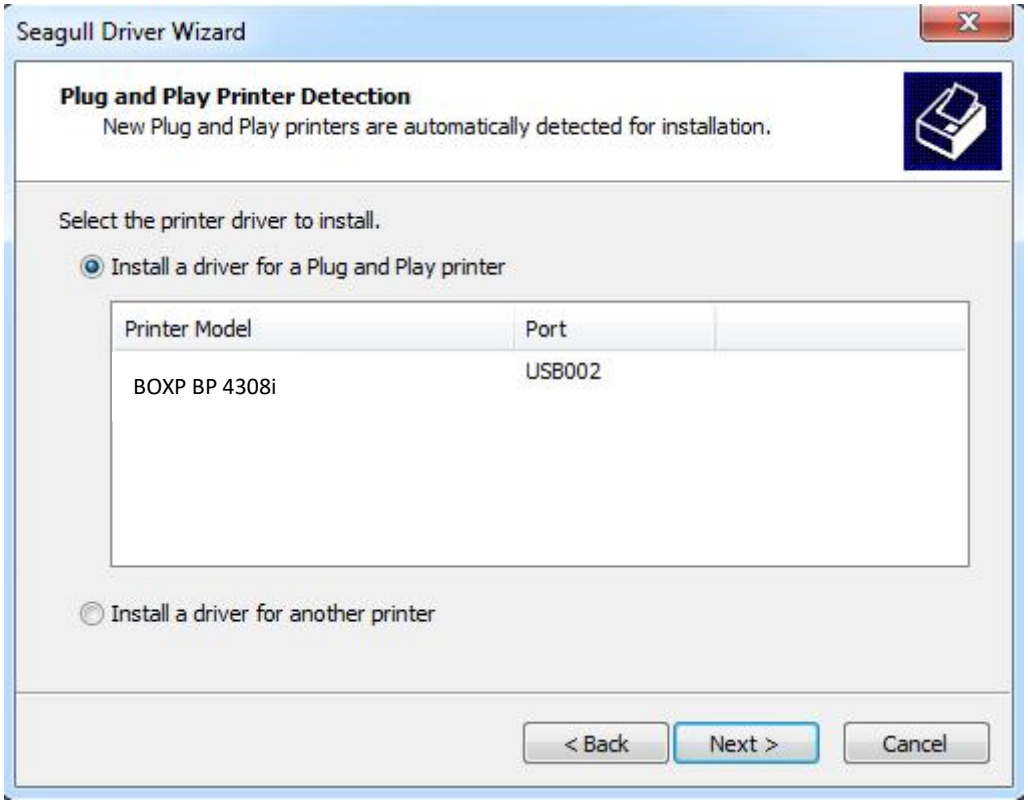
6. Select "Run Driver Wizard after unpacking drivers", then click "Finish".



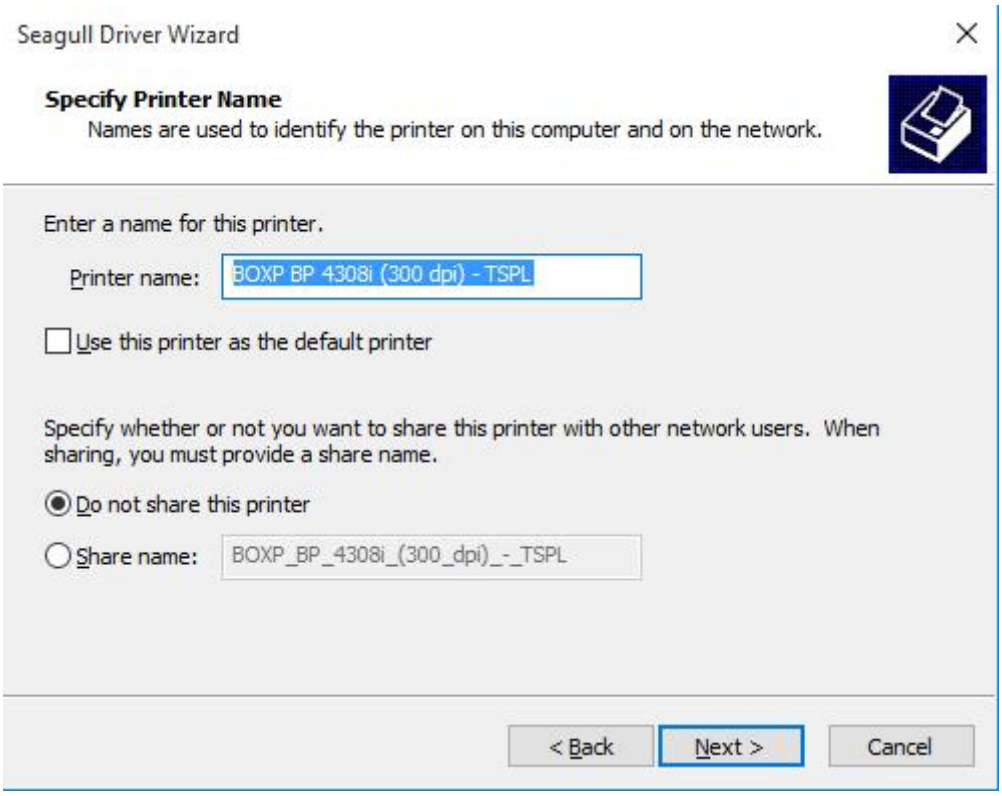
7. Choose "Install printer drivers" , then click "Next".

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

8. Choose "Install a driver for a Plug and Play printer, then click "Next".

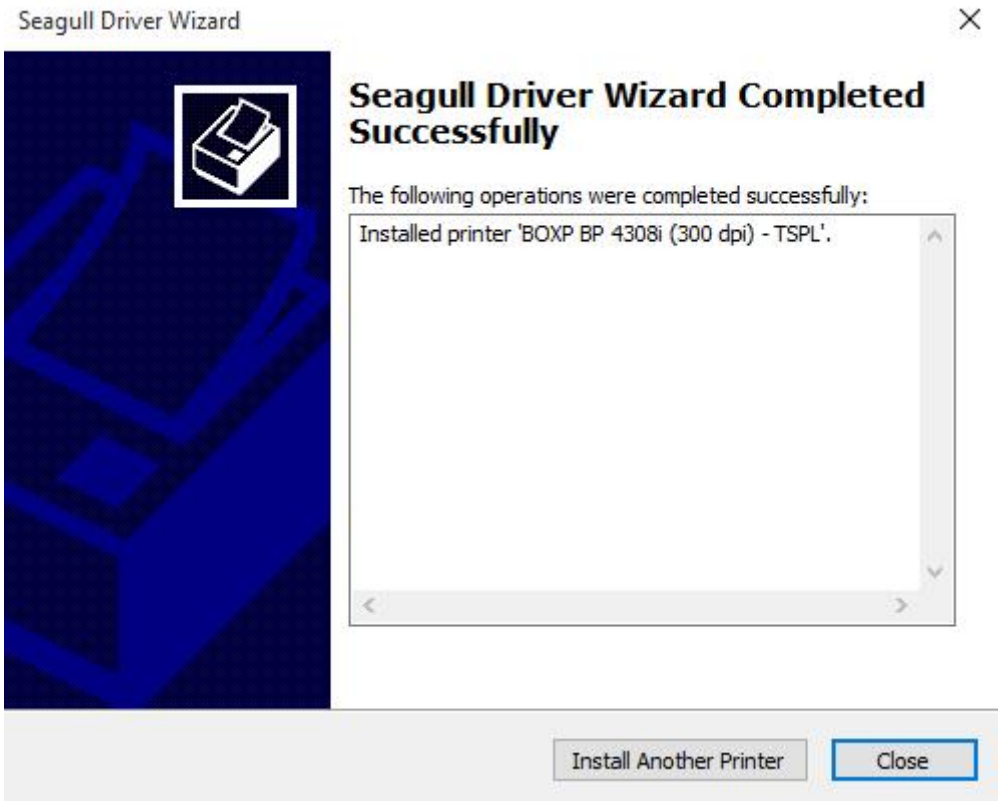


9. Enter a name for this printer, then click "Next".



10. Click "Finish".

11. Click "Close", and the driver is installed successfully.



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

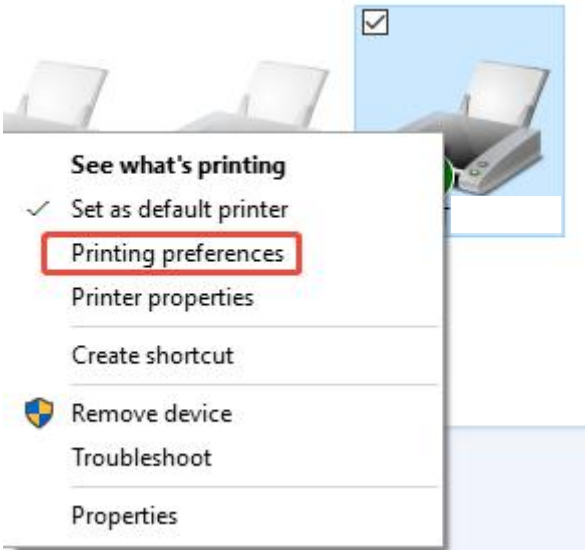
Note:

- **If already installed the driver (No matter what kind of port), when you connect the printer with computer via USB, it will create a USB port automatically.**
- **Any problems exist, please use our utility tool.**

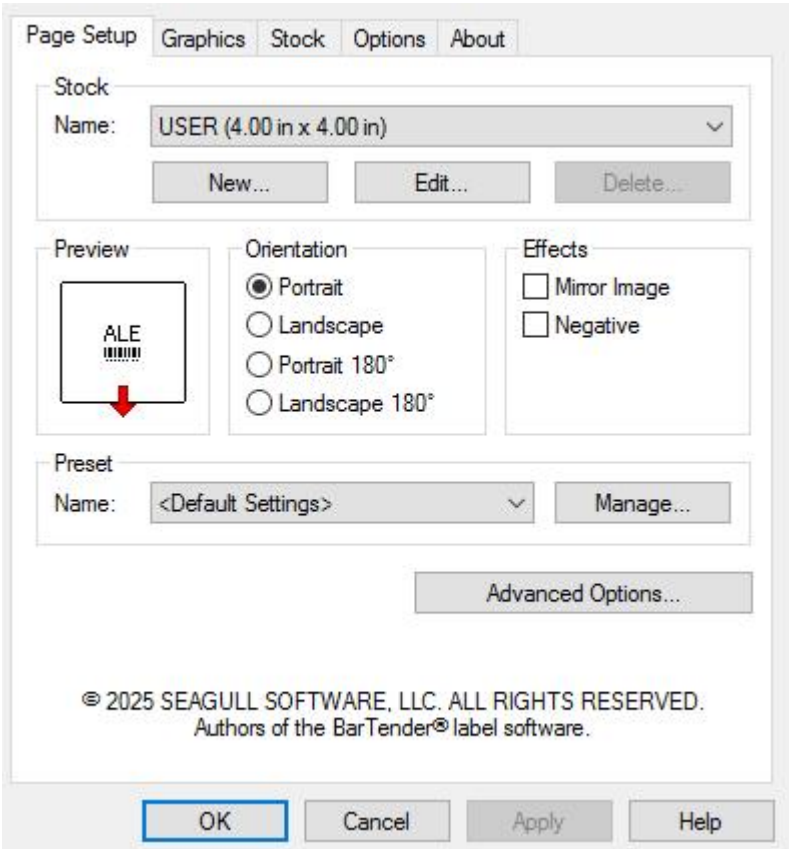
7.4 Usage

7.4.1 Printing Preferences

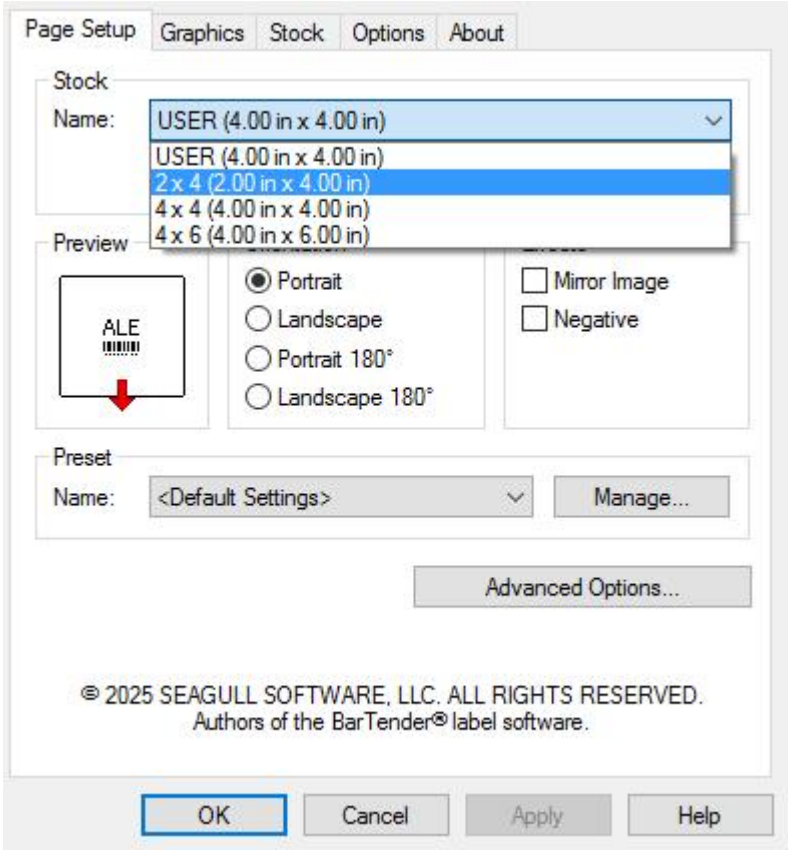
1. Click “Start”→"Settings" → "Devices" → “Devices and printers”. Right click icon and choose “Printing preferences”.



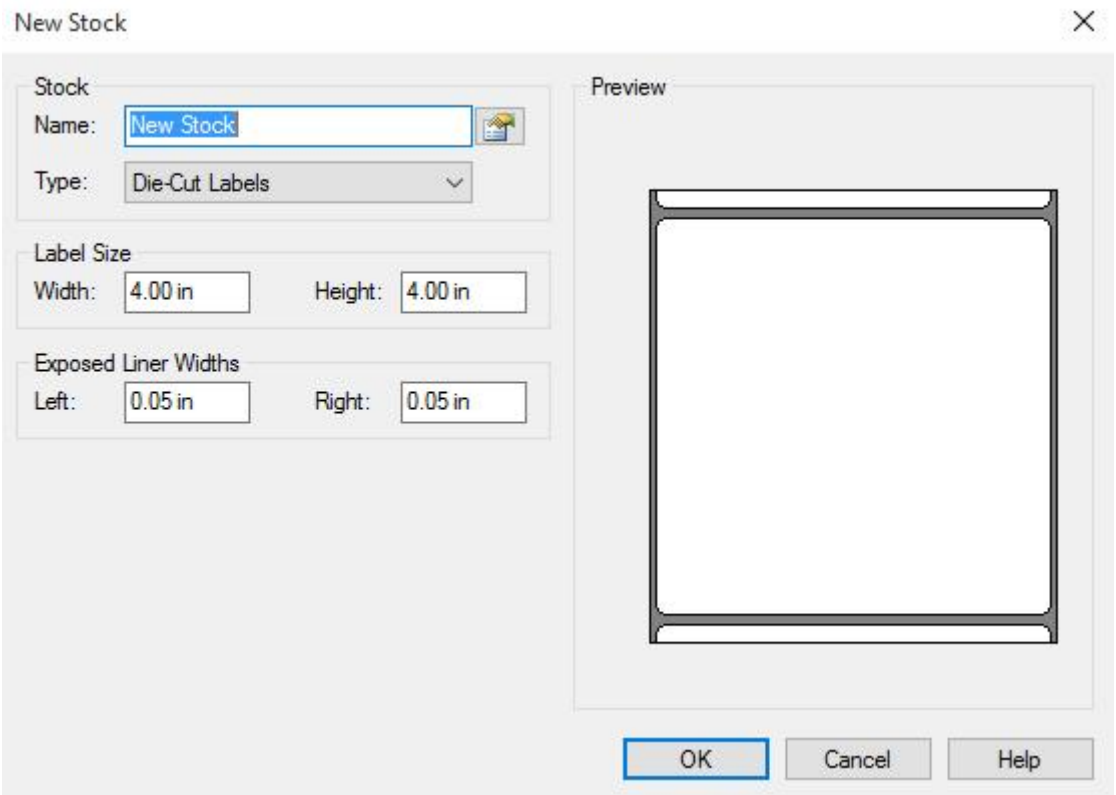
2.According to different needs, set up the page.



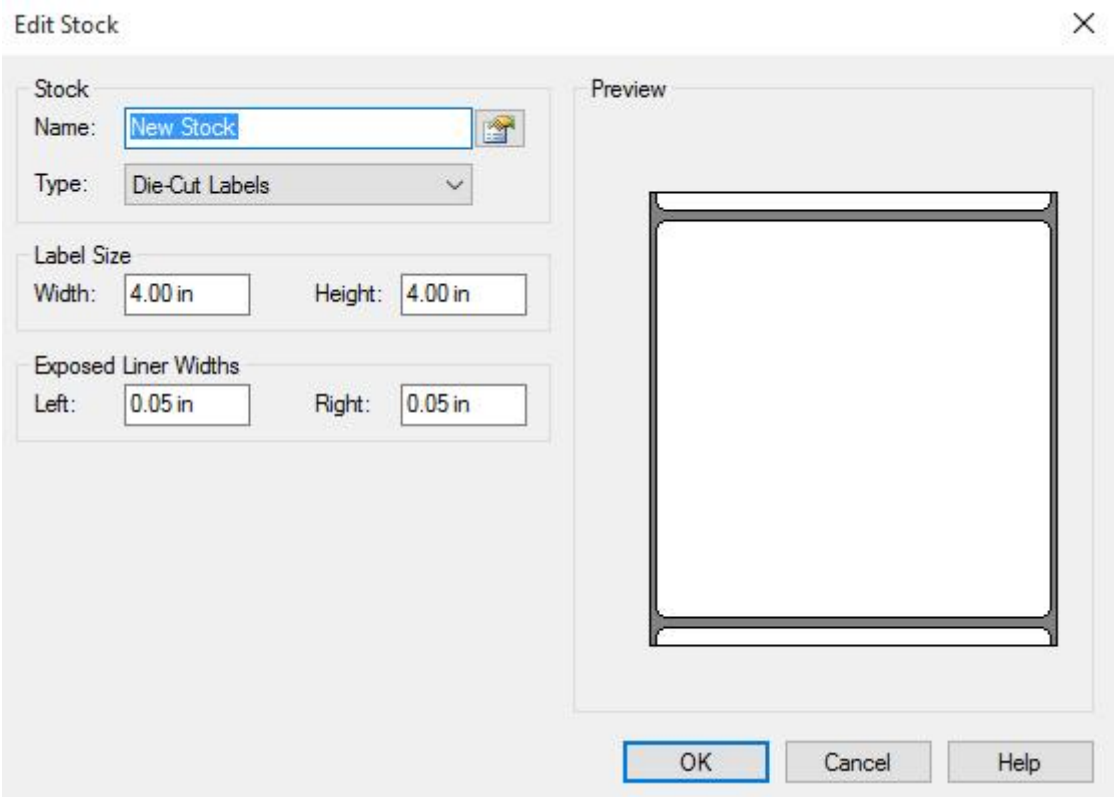
● Click “Stock”→“Name”, and choose the paper type.



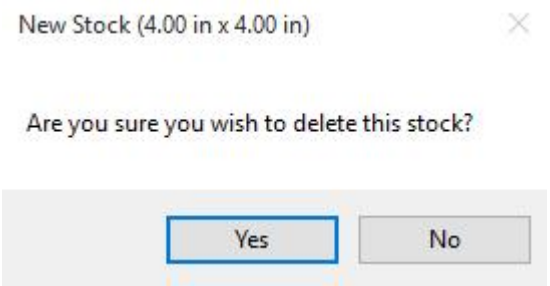
● Click “New Stock”, and set up a new stock.



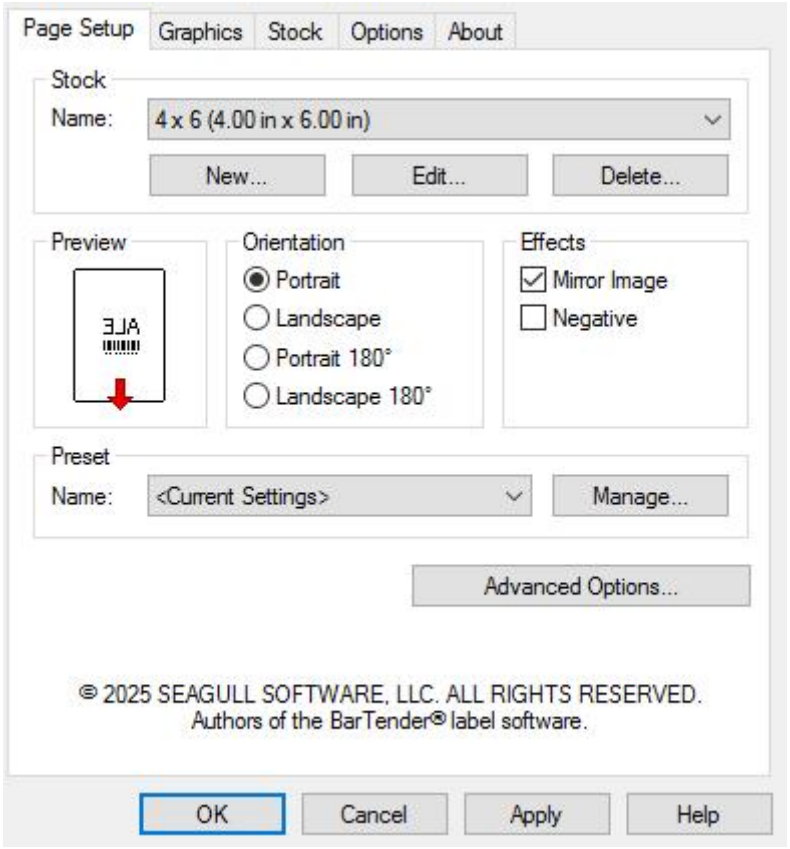
● Click “Edit Stock”, and edit the stock.



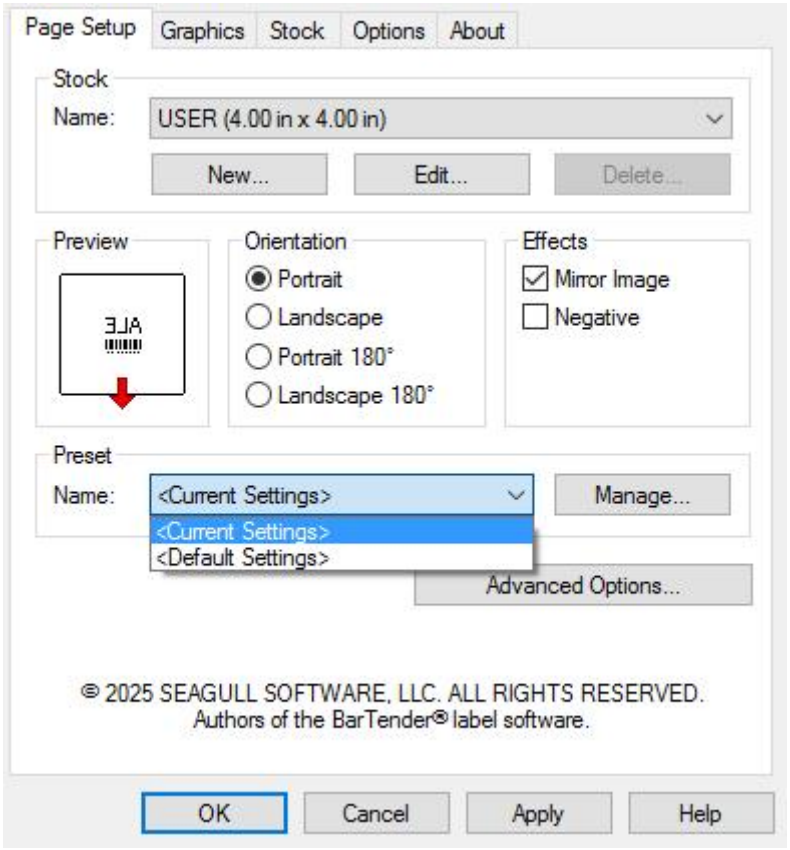
● Click “Delete Stock”, and delete the stock.



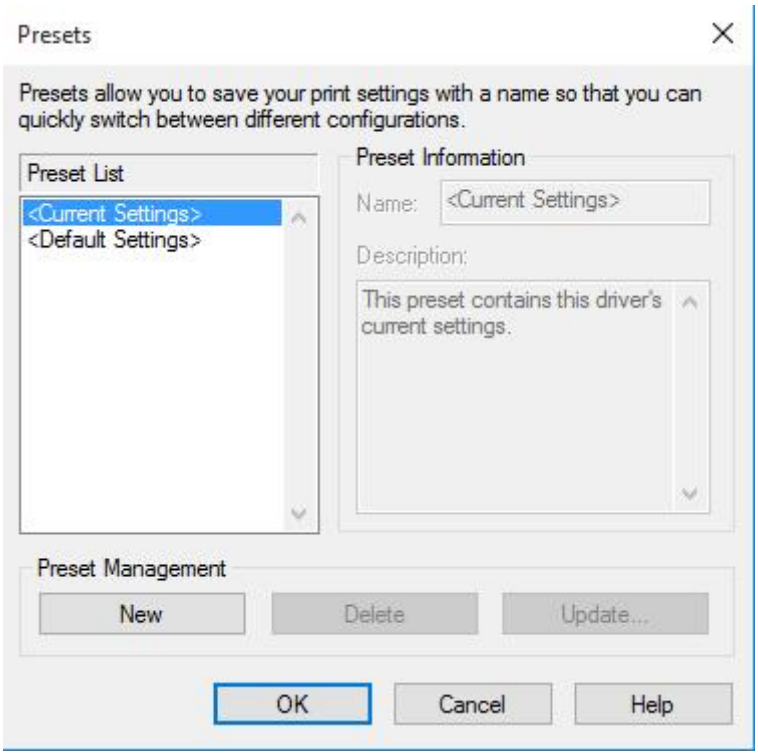
● Choose “Orientation” or “Effects”, showed in the “Preview”.



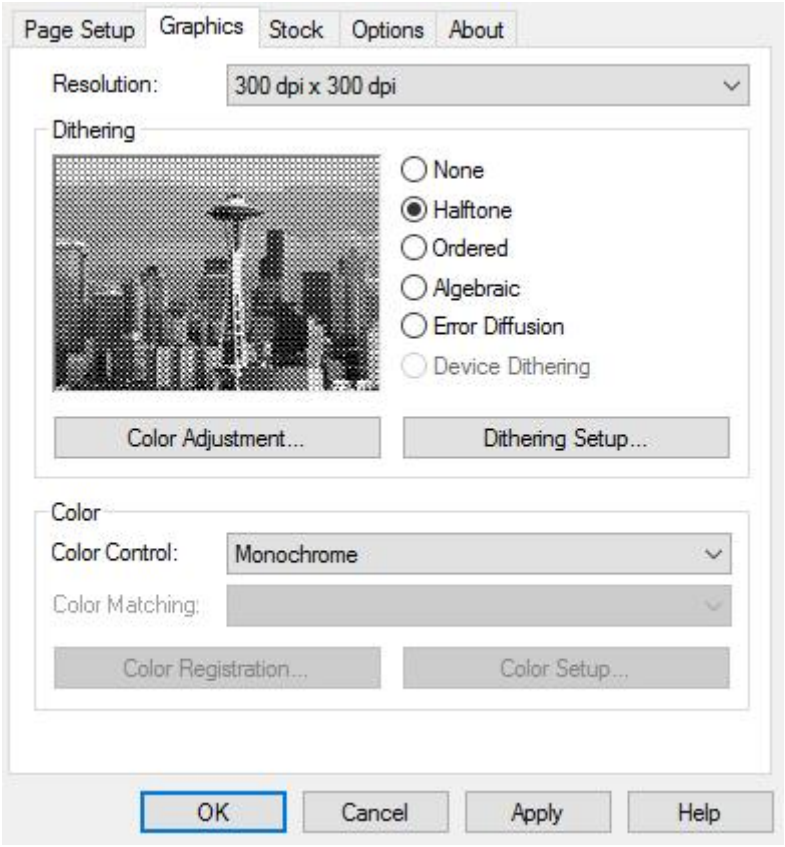
● Click “Preset”→“Name”, and back to the default settings.



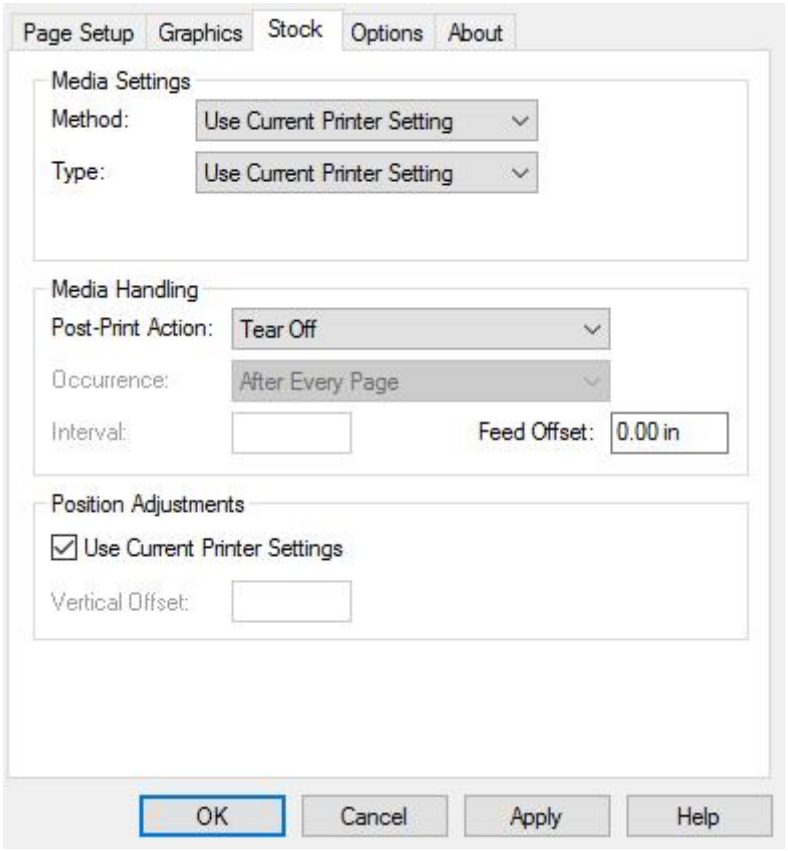
● Click “Manage”, and change the settings.



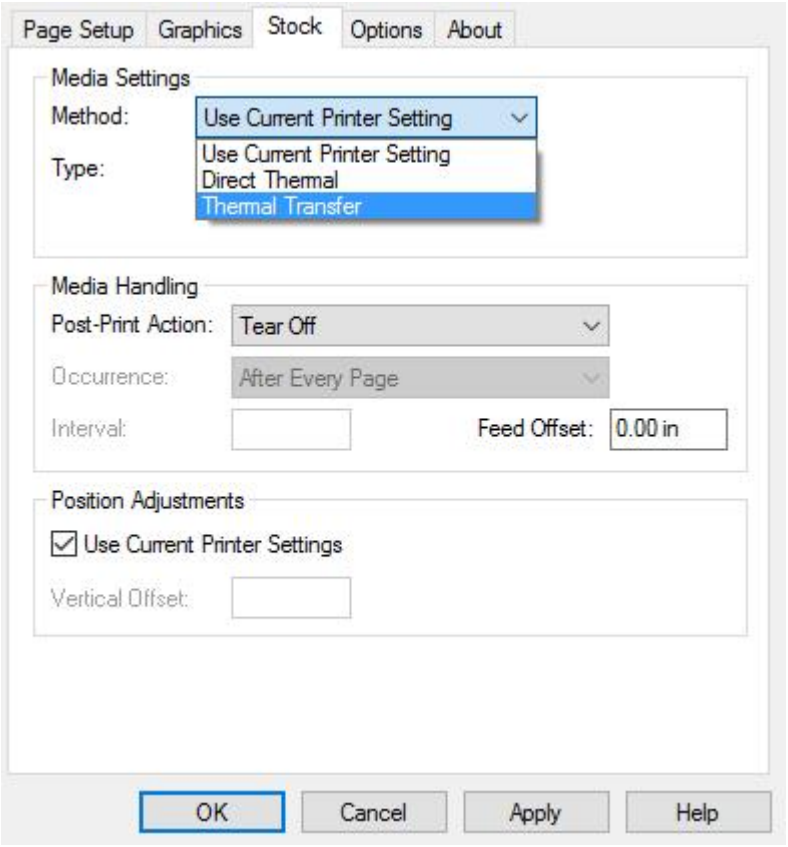
3.Click “Graphics”, and edit the pictures.



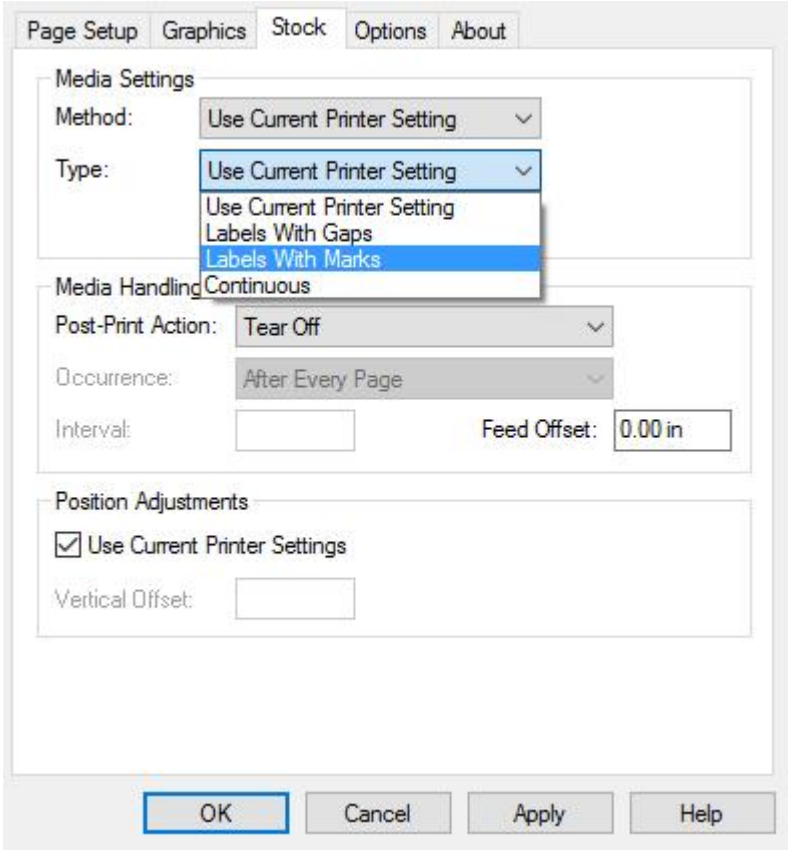
4.Click “Stock”.



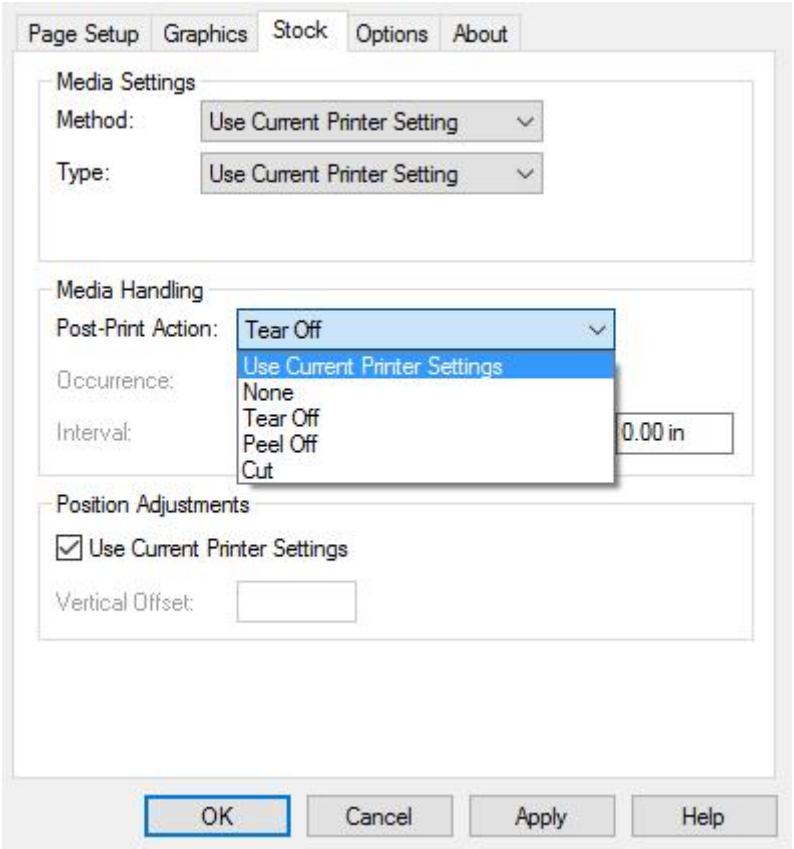
● Set up the print method.



● Set up the media type.

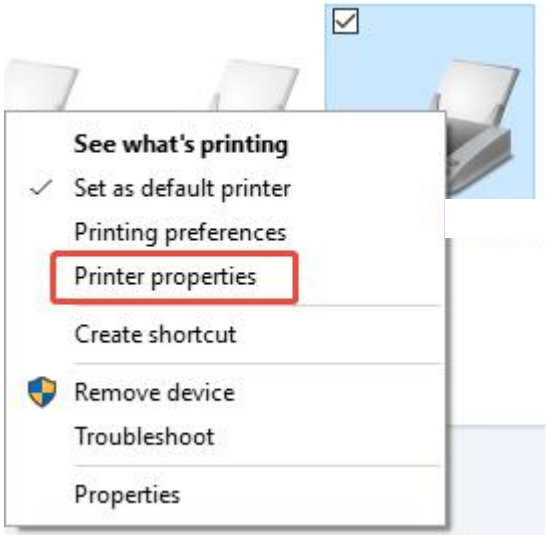


● Click “Feed Mode”→“Mode”, and choose the method of media handing.

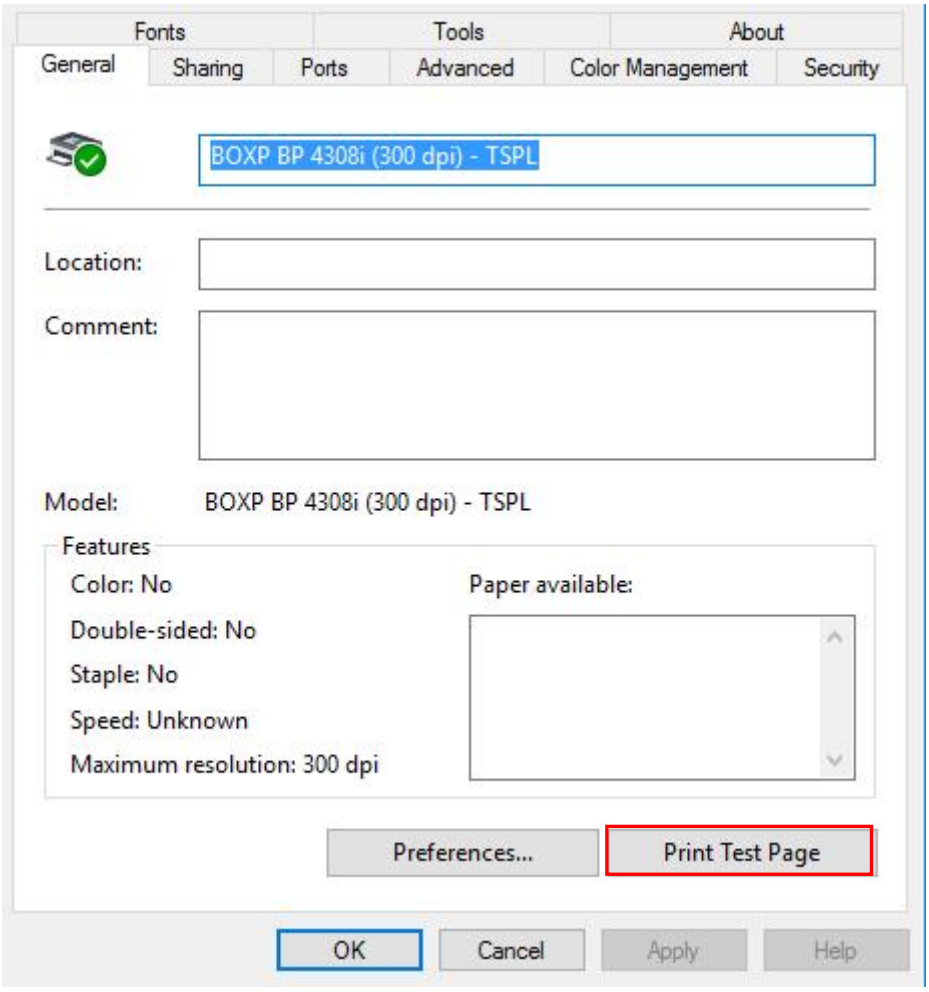


7.4.2 Printer Properties

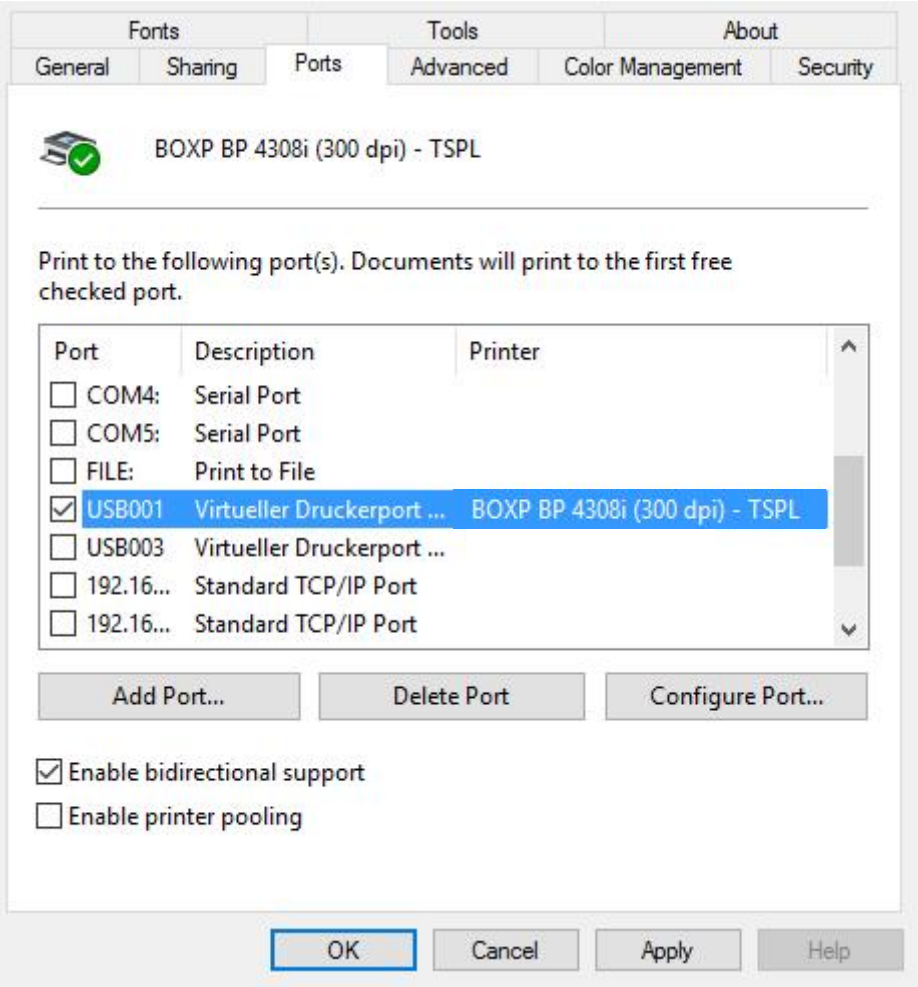
1. Click "Start" → "Settings" → "Devices" → "Devices and printers". Right click icon and choose “Printing properties”.



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



3.3. Click “Ports”, and choose the port needed.



Chapter 8 Windows Driver Instructions

8.1 Introduction

The following operating systems are supported for usage.

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

8.2 Windows Driver Preparation

Download the Windows driver installation: BOXP Label Printer Driver vX X.X.X.

8.3 Driver Installation

Note:

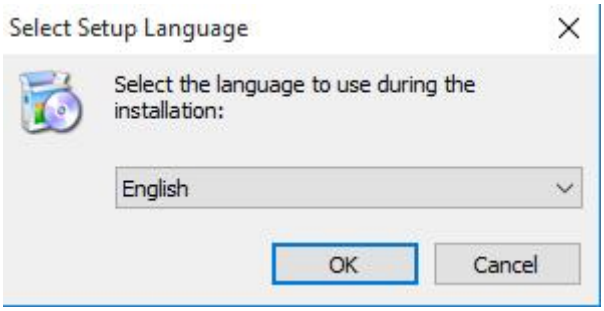
- **Under different operating system, the screen has slight difference. The following example is based on the Windows 10 operating system.**
- **It is recommended to close the relevant security protection software before installation to avoid affecting the installation of the driver.**

1.Select one interface to connect your printer to computer.

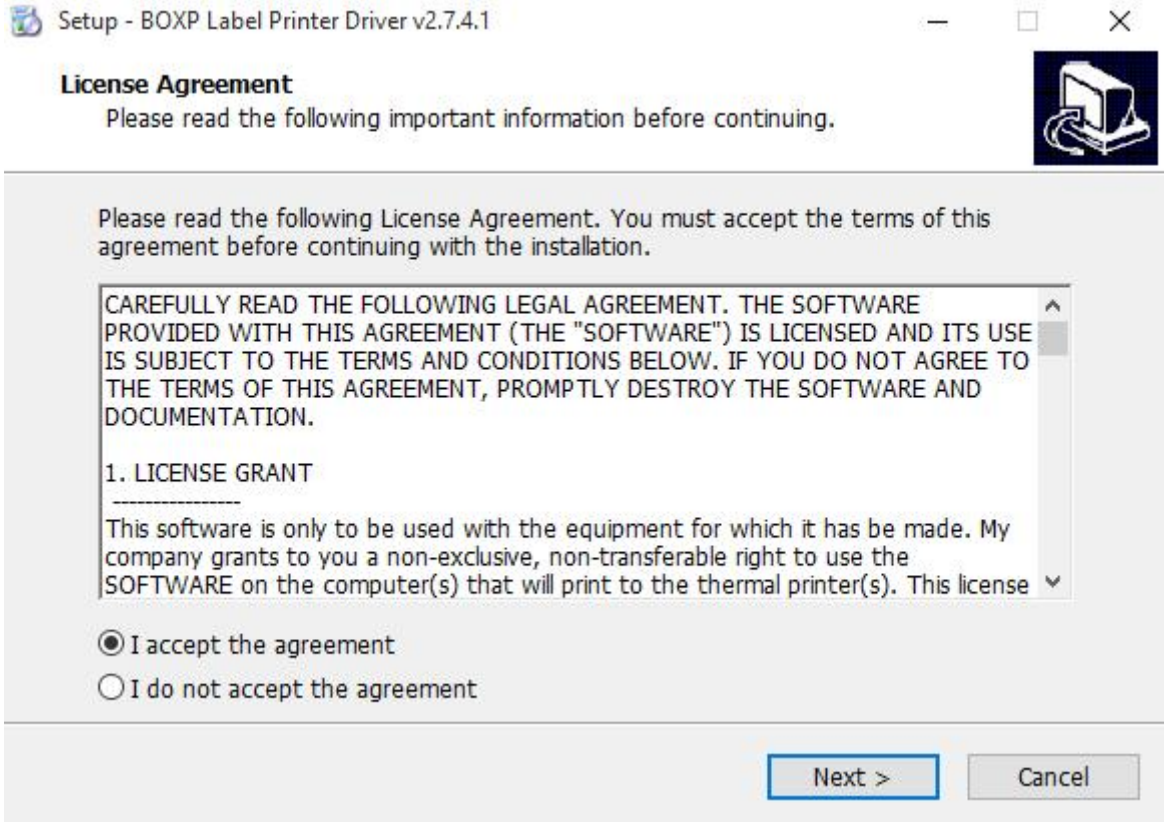
2.Turn on the printer check if it successfully connected to computer.

3.Double click Windows Driver Software.

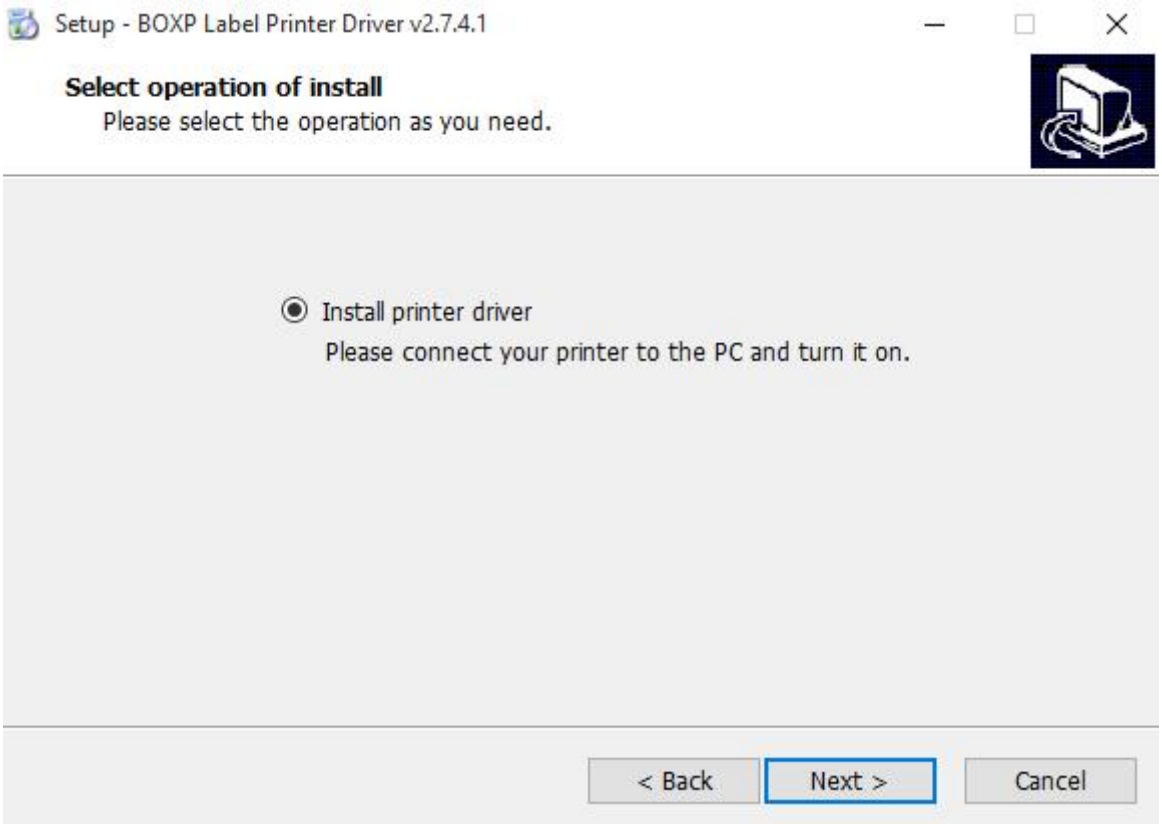
4.Select the language and click 'OK'.



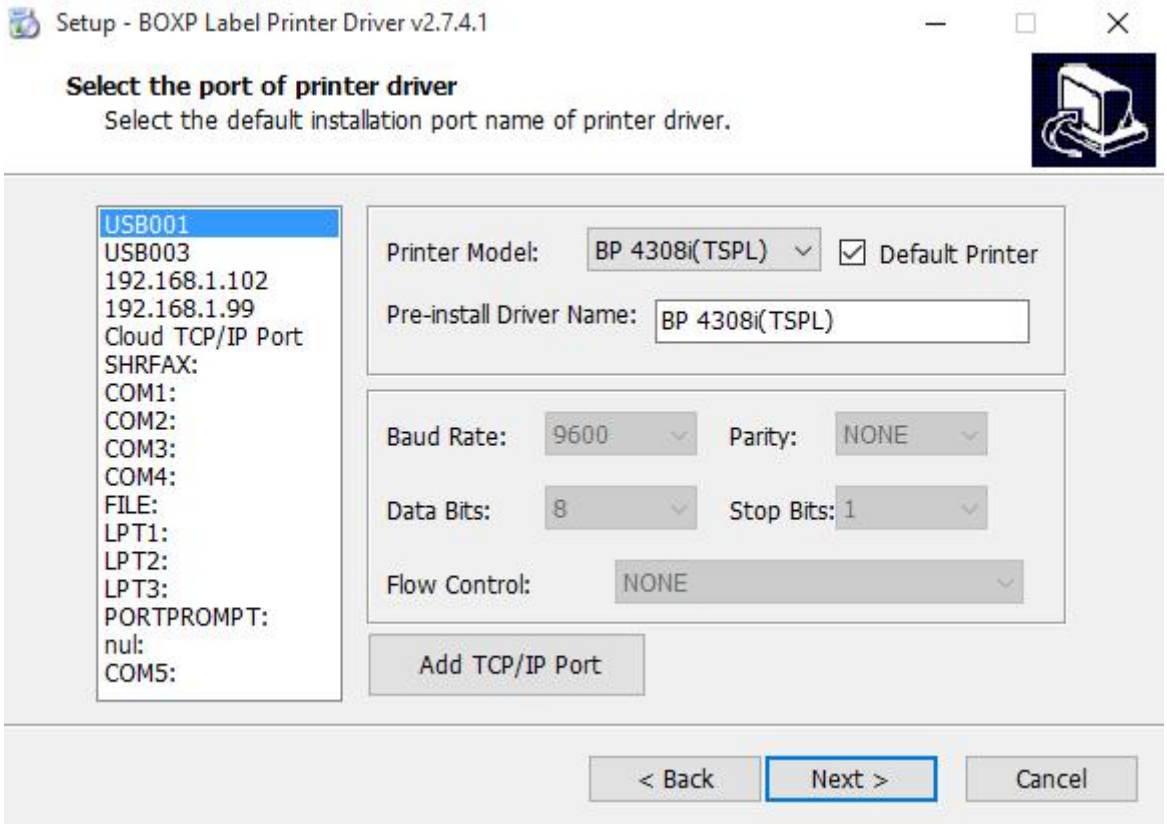
5.After agree to the EULA, click “Next”.



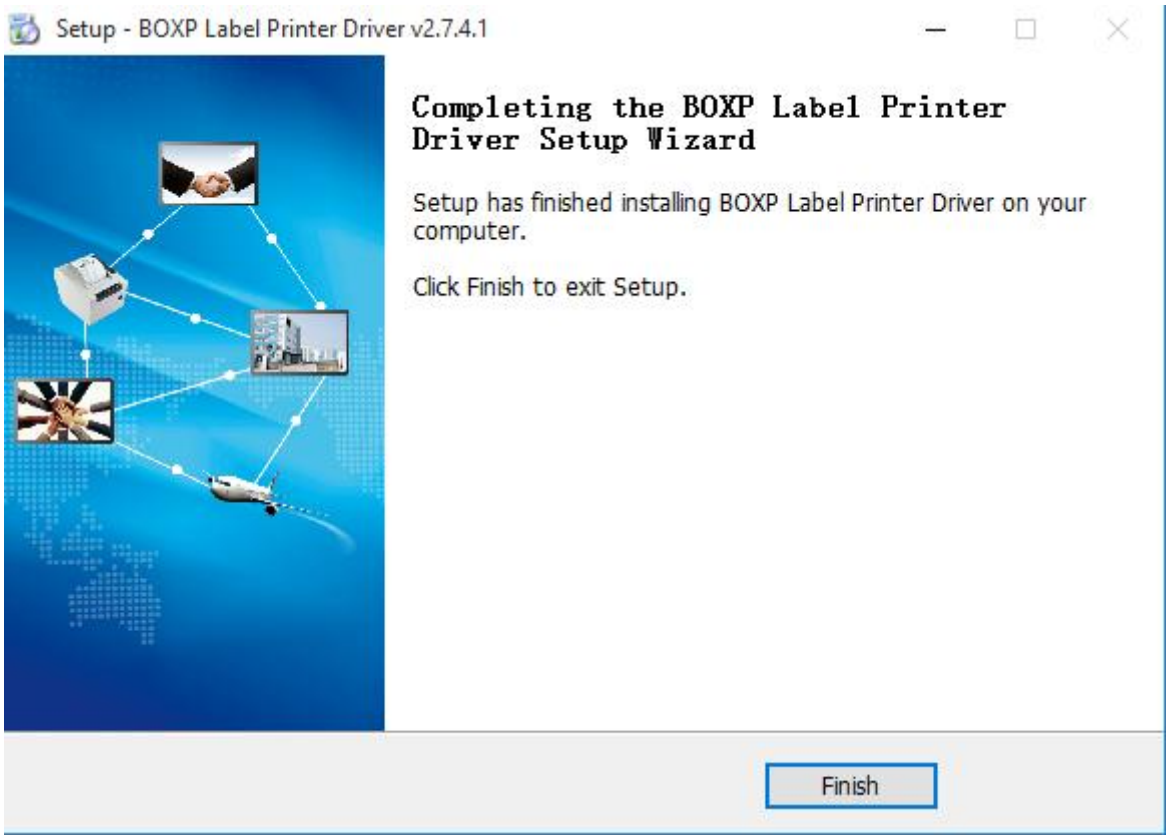
6.Click “Next”.



7.Select the printer driver port and click 'Next'.



8.Click "Finish".



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. **(Taking connecting a USB port as an example)**

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

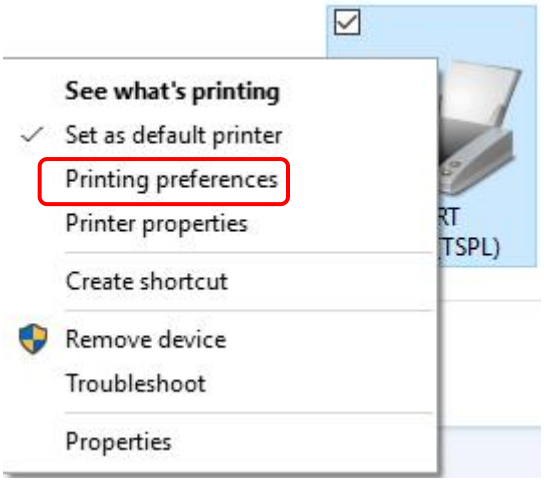
Note:

- **If already installed the driver (No matter what kind of port), when you connect the printer with computer via USB, it will create a USB port automatically.**
- **Any problems please use our utility.**

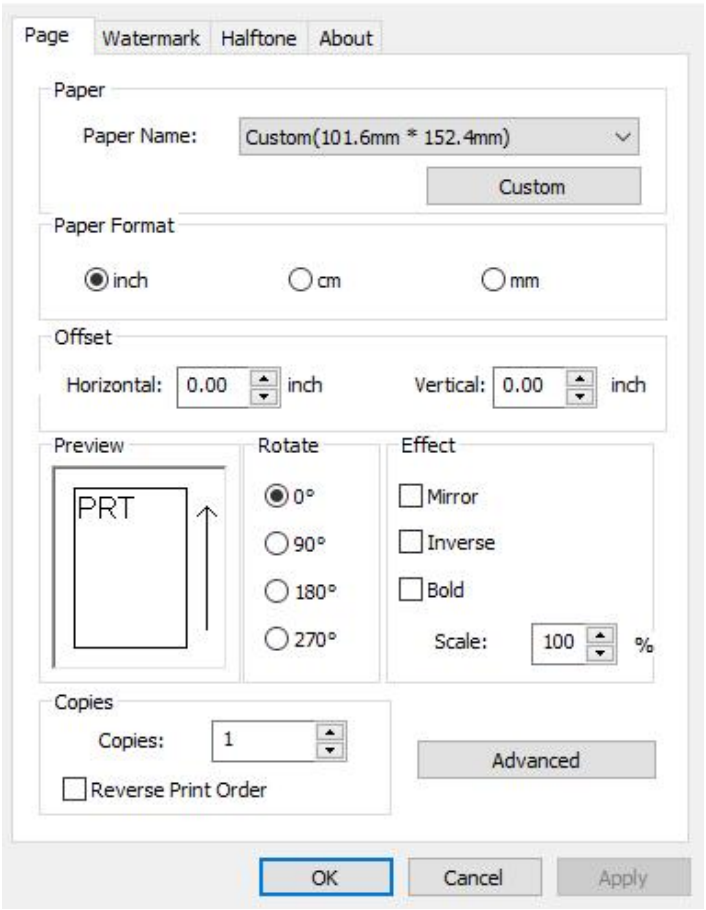
8.4 Usage

8.4.1 Printing Preferences

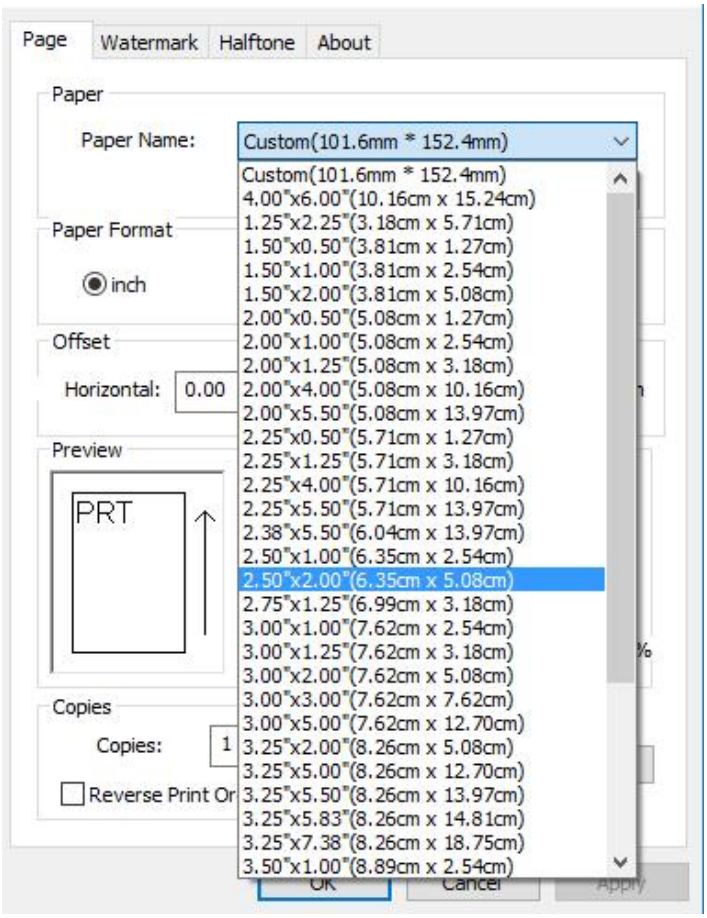
1. Right click the icon and choose “Printing preferences”.



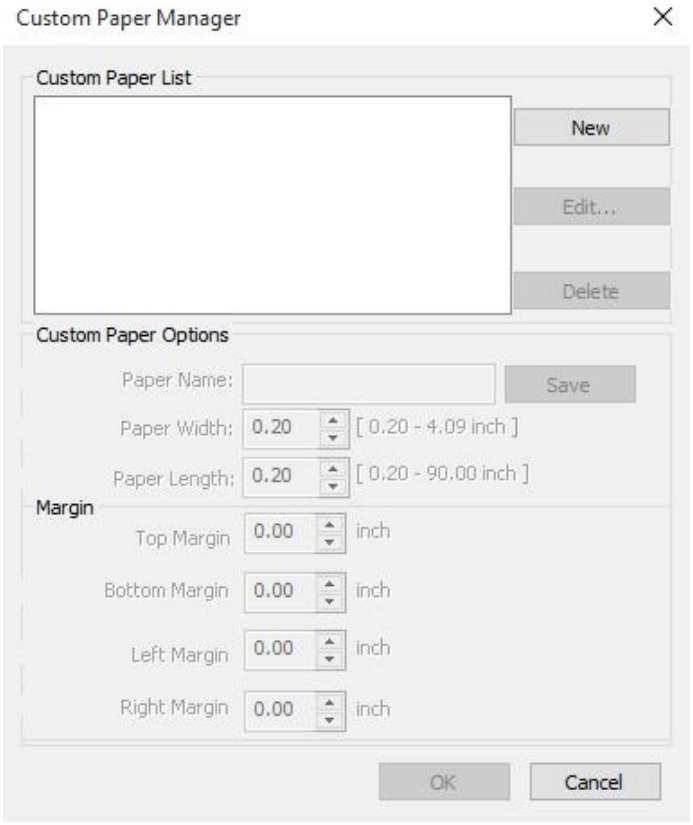
5.According to different needs, set up the page.



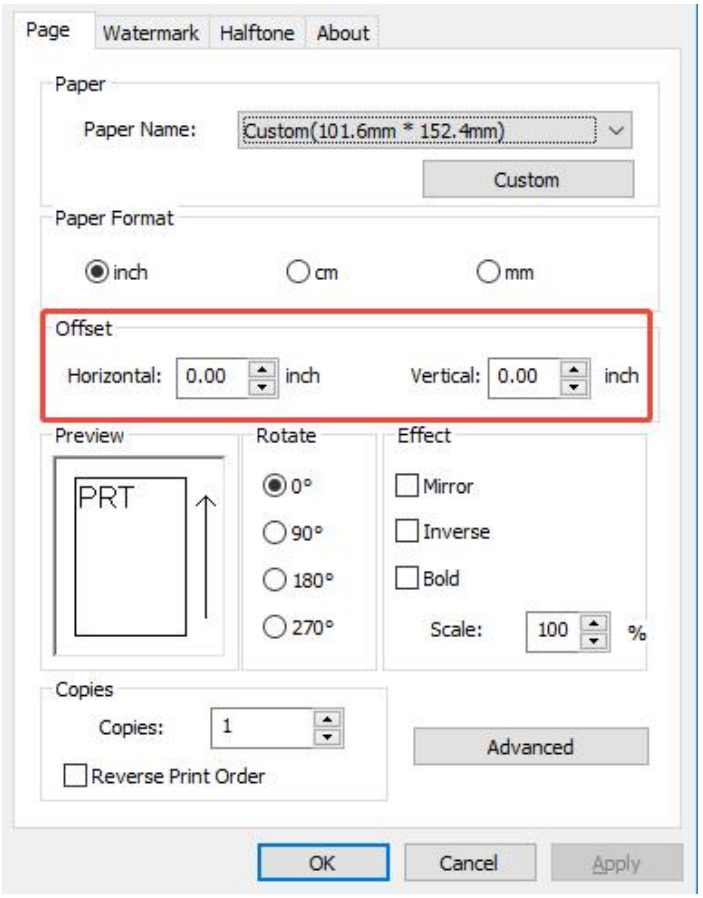
● Click “Page Name” and select the paper type.



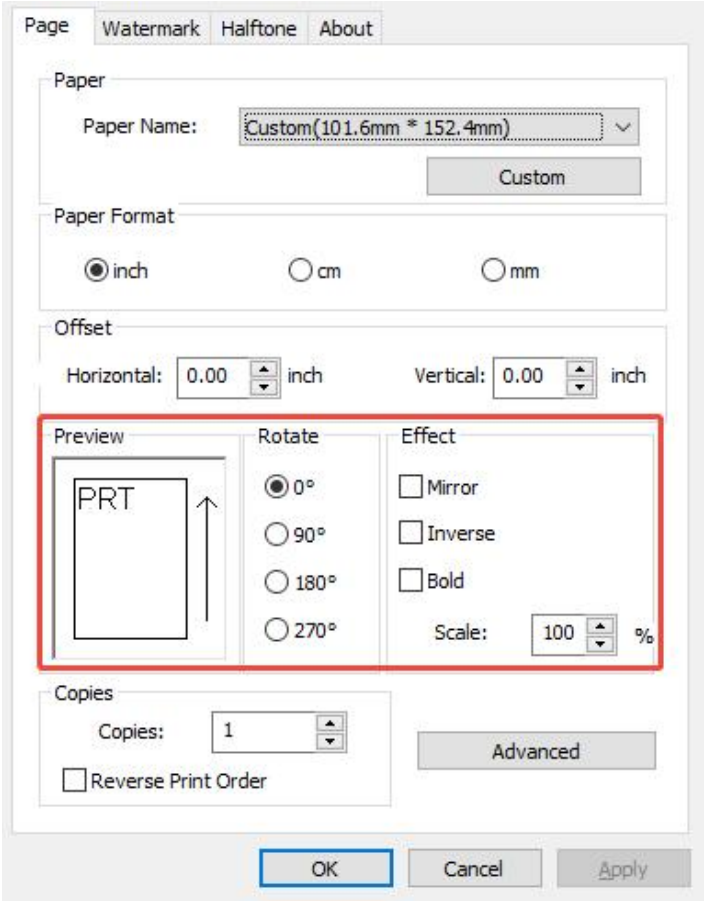
● Click “Custom” to add or delete paper.



● Click "Horizontal" or "Vertical" to edit the offset effect.

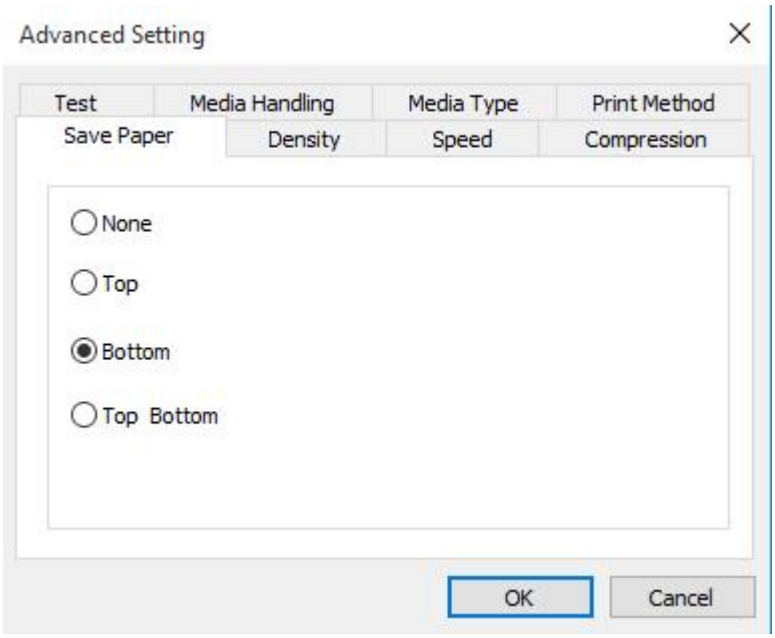


● Choose “Rotate” or “Effect”, showed in the “Preview”.

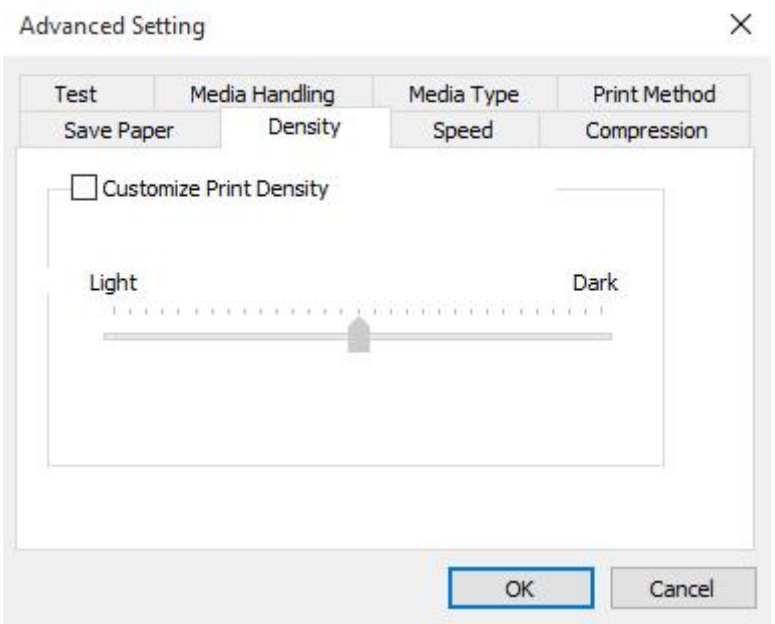


● Click “Advanced”

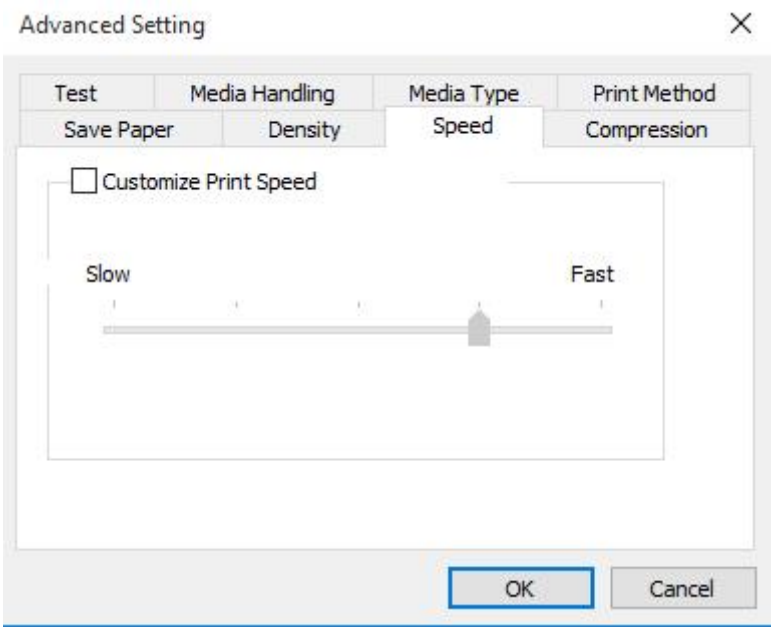
“Save Paper”:



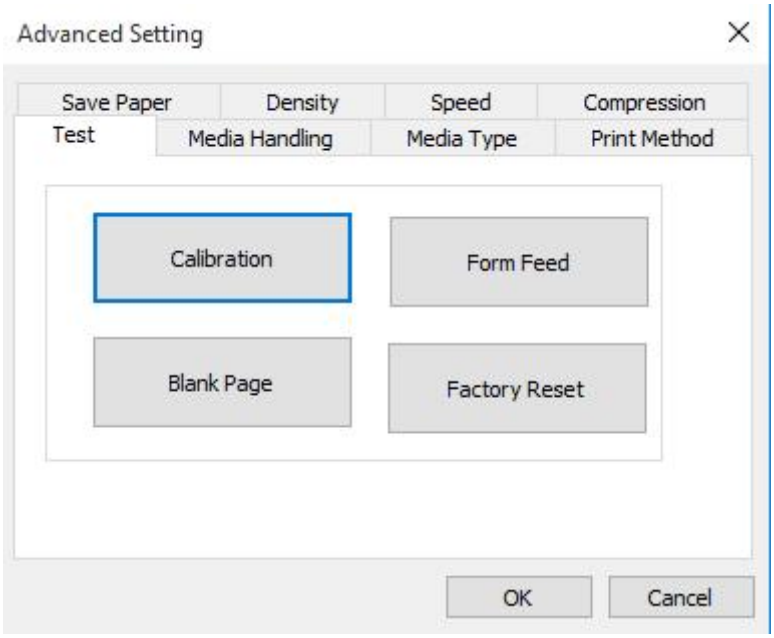
“Density”:



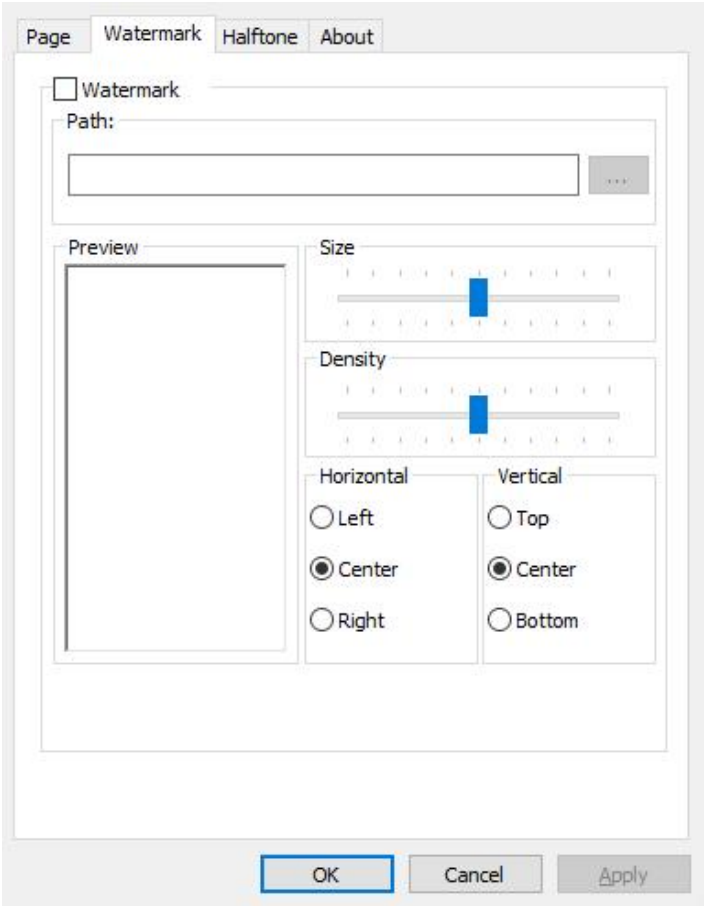
"Speed":


Advanced Setting
Test
Media Handling
Media Type
Print Method
Save Paper
Density
Speed
Compression
Customize Print Speed
Slow
Fast
OK
Cancel

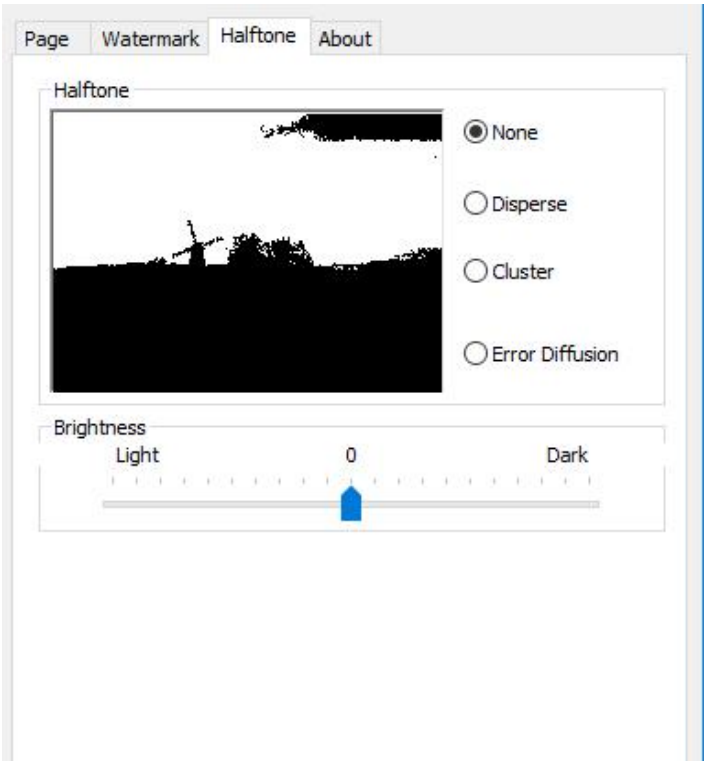
"Test":


Advanced Setting
Save Paper
Density
Speed
Compression
Test
Media Handling
Media Type
Print Method
Calibration
Form Feed
Blank Page
Factory Reset
OK
Cancel

6.Click “Watermark”.

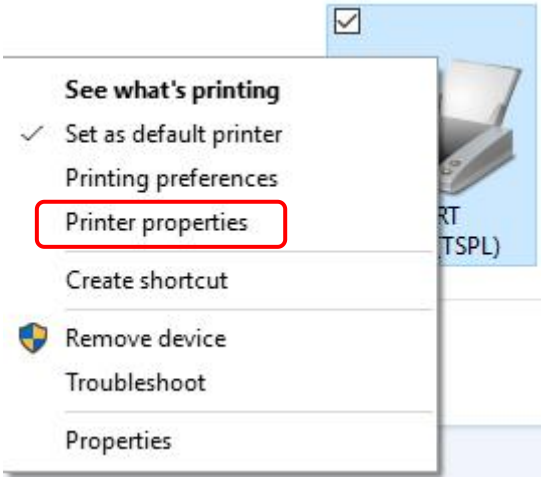


7.Click “Halftone” to set the halftone.

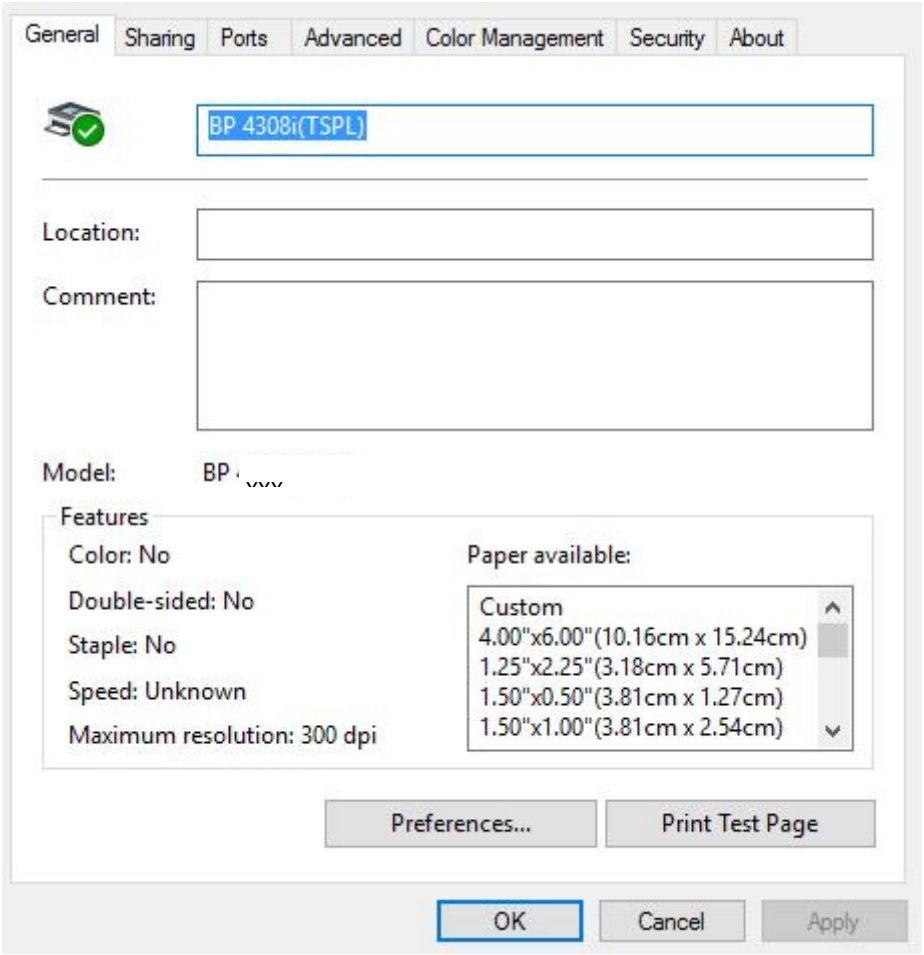


8.4.2 Printer Properties

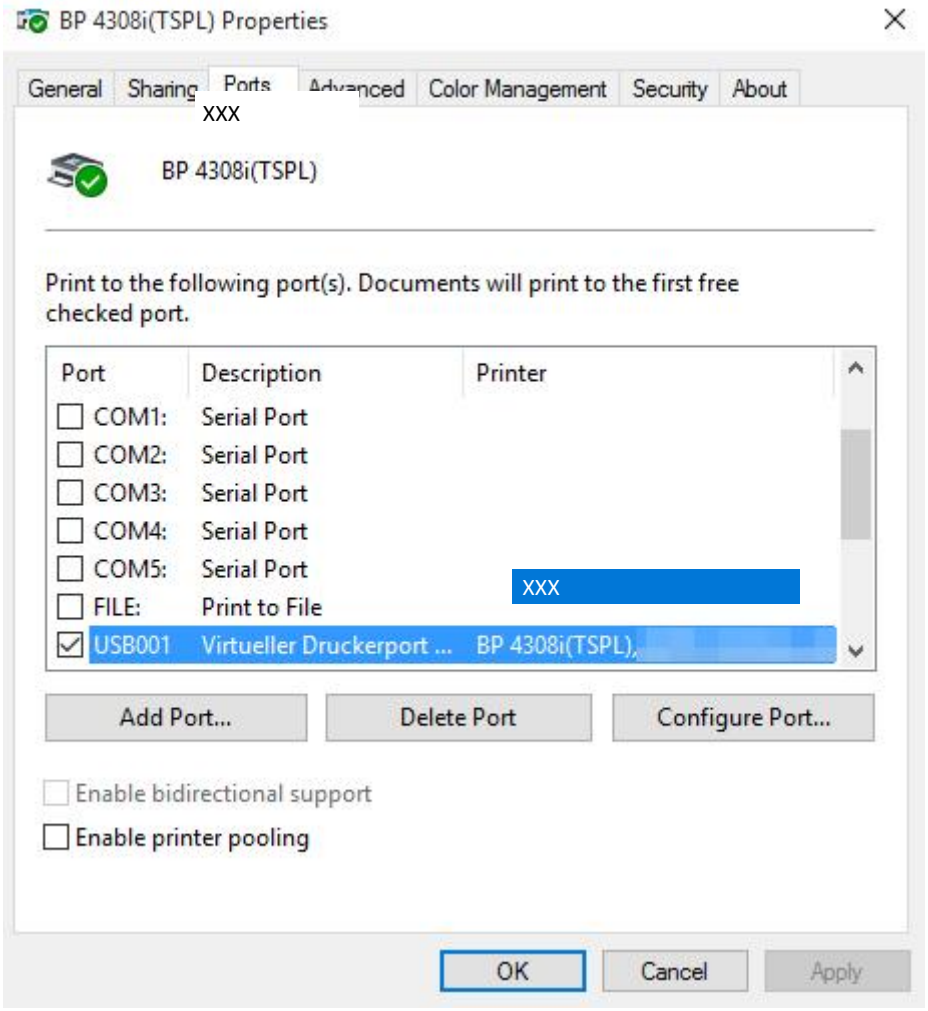
1. Right click the icon and choose “Printer properties”.



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



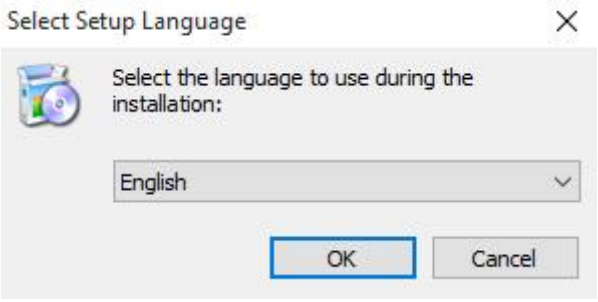
3.Click “Ports”, then choose the port needed.



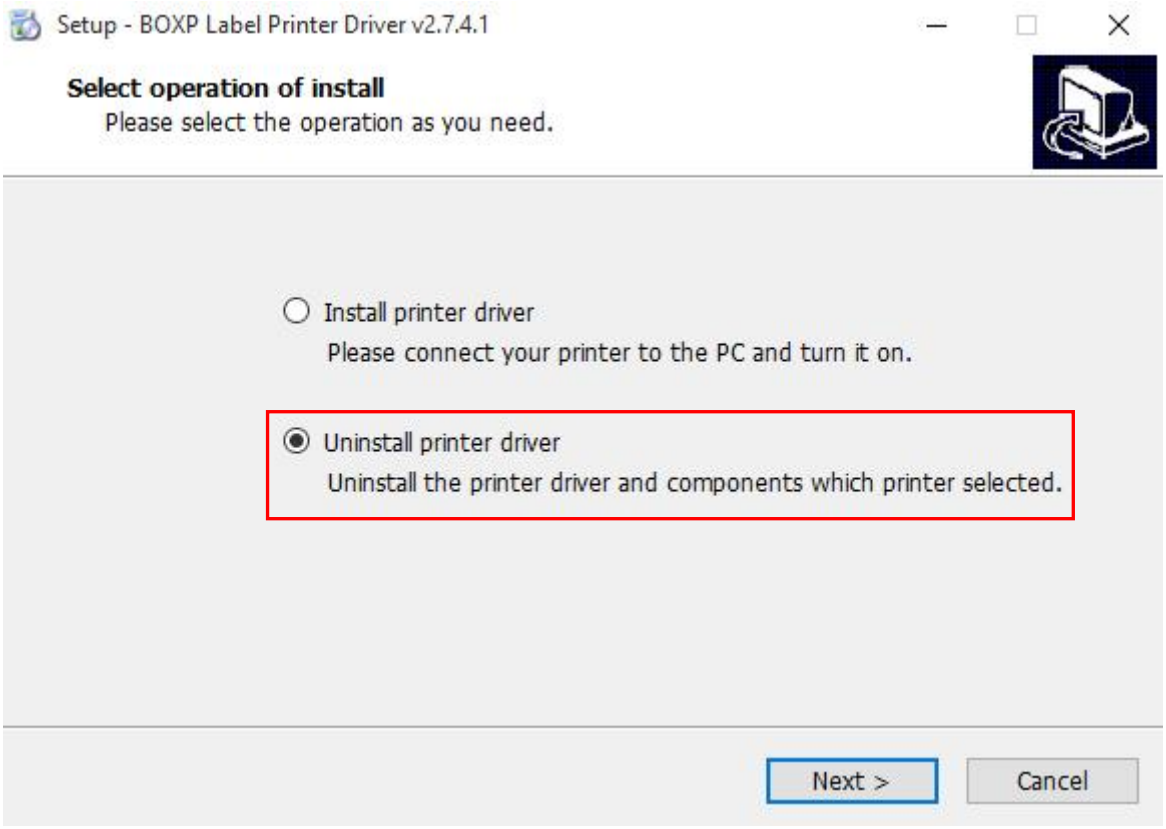
8.5 Uninstall Driver

1.Double click Windows Driver Software.

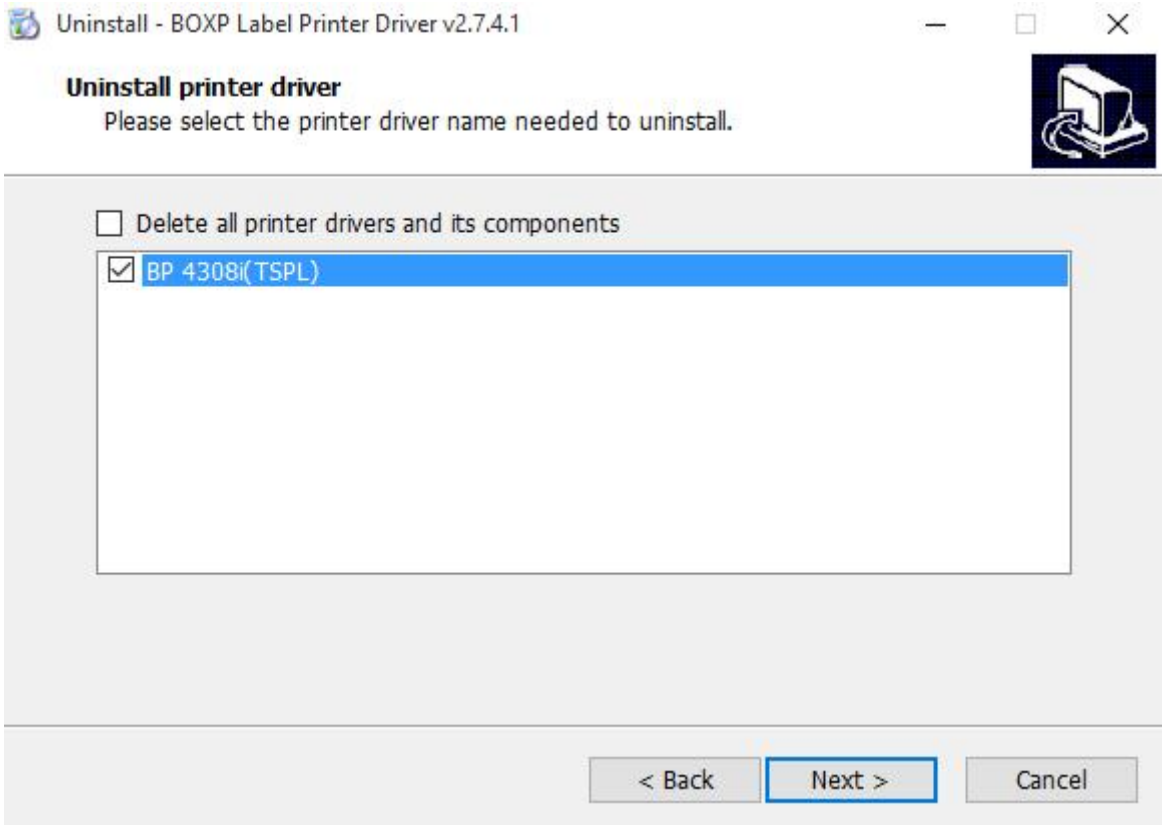
2.Select the language and click 'OK'.



3.Choose “Uninstall printer driver”, then click “Next”.



4.Select the driver you want to uninstall and click "Next".



Chapter 9 BarTender Ultralite Instructions

9.1 Introduction

The following operating systems are supported for usage:

- Windows Vista, Windows 8.1, Windows 8, Windows 7, Windows 10
- Windows Server 2016, Server 2012, 2012 R2, Server 2008, 2008 R2
- all 32-bit and 64-bit（x64）editions.

9.2 Installation Preparation

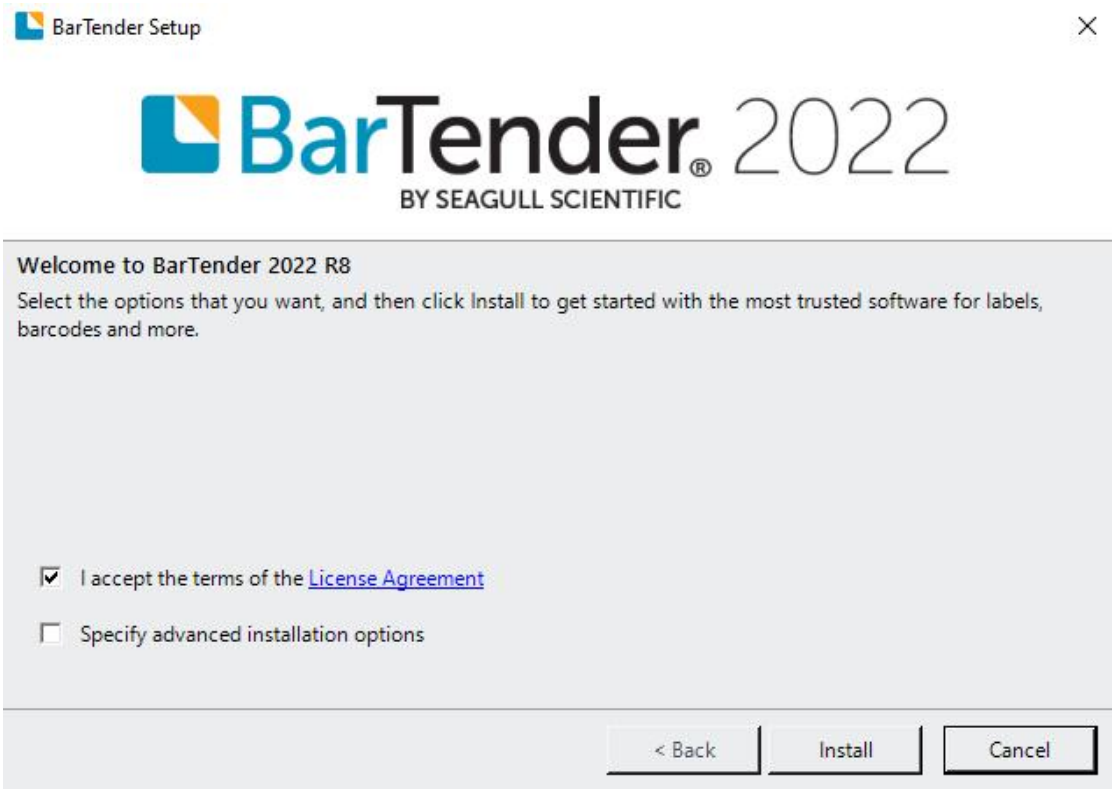
Download BarTender Ultralite application.

9.3 Installation

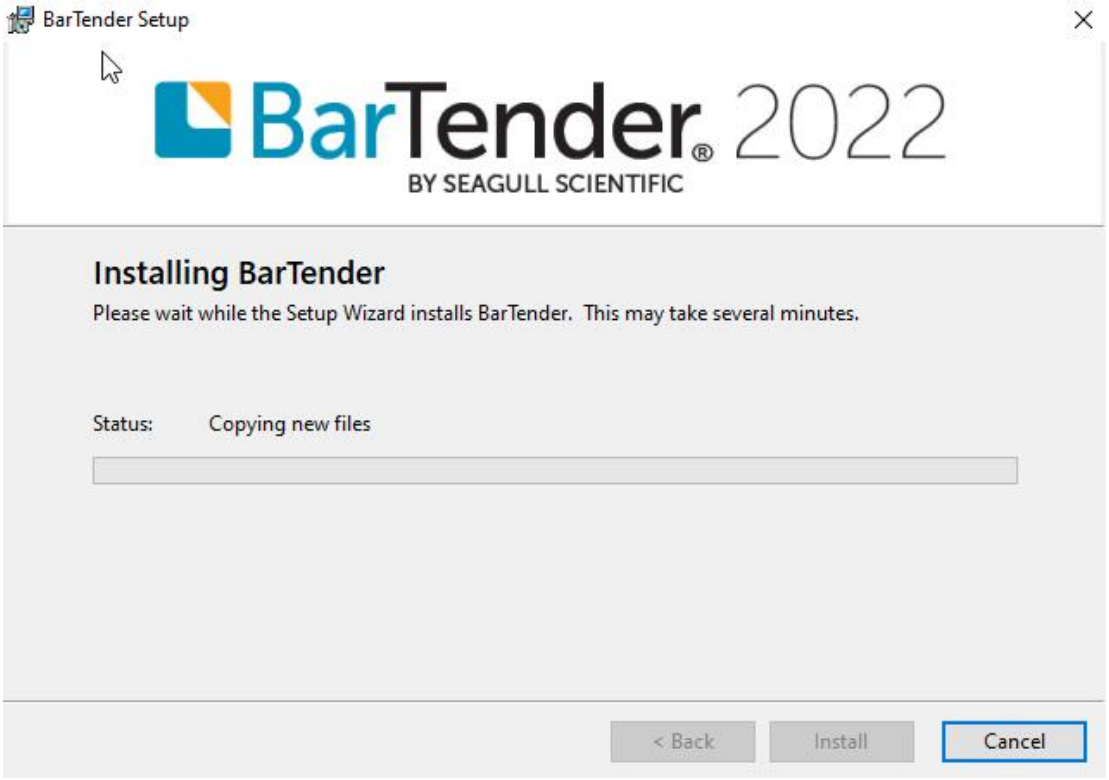
Note:

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

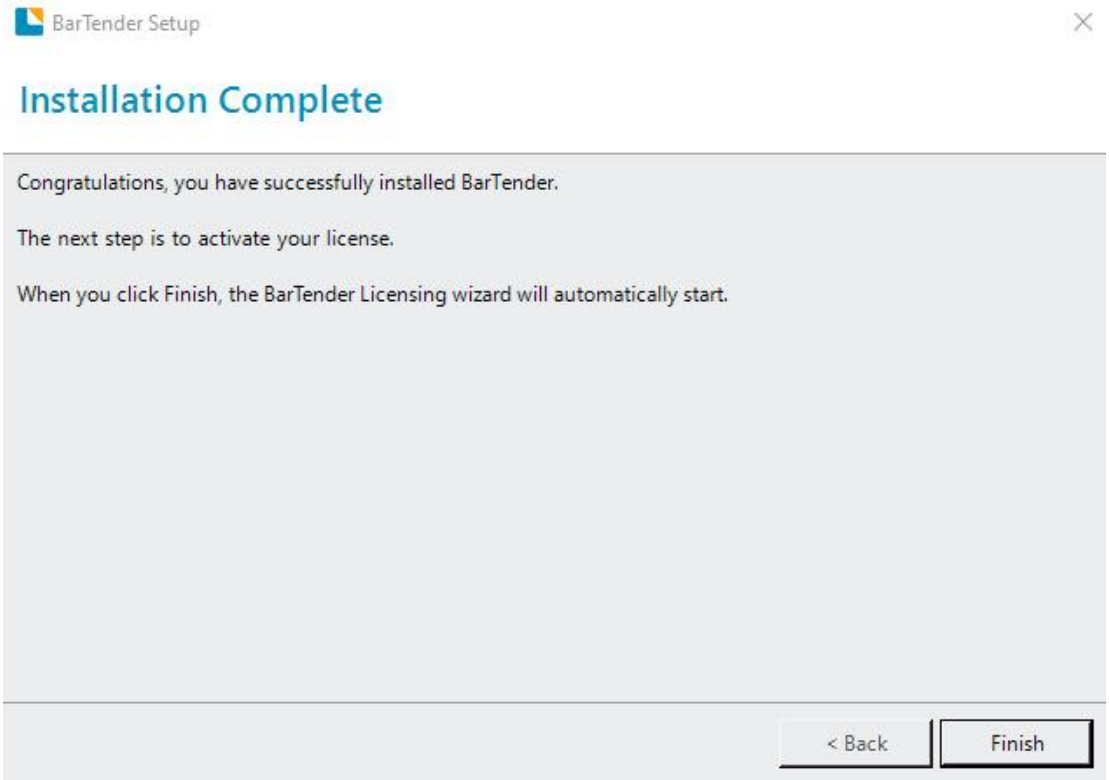
1. Double click the application program .
2. Click "Install".



This may take several minutes.

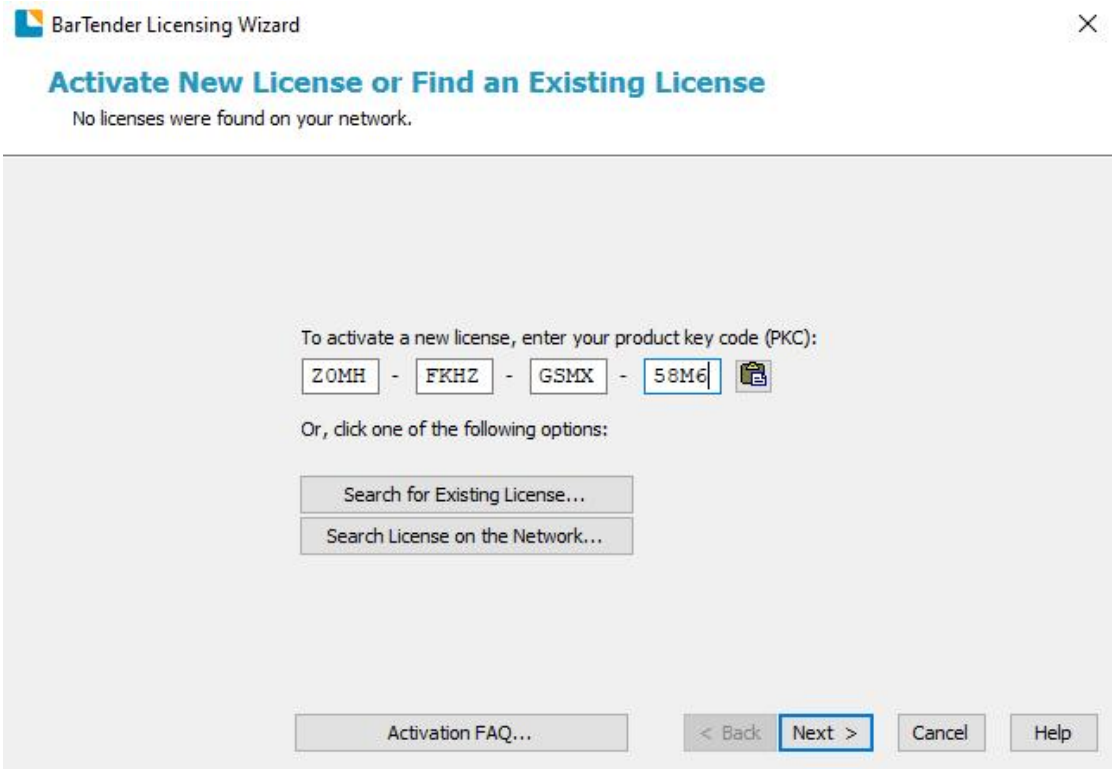


3. Click "Finish".

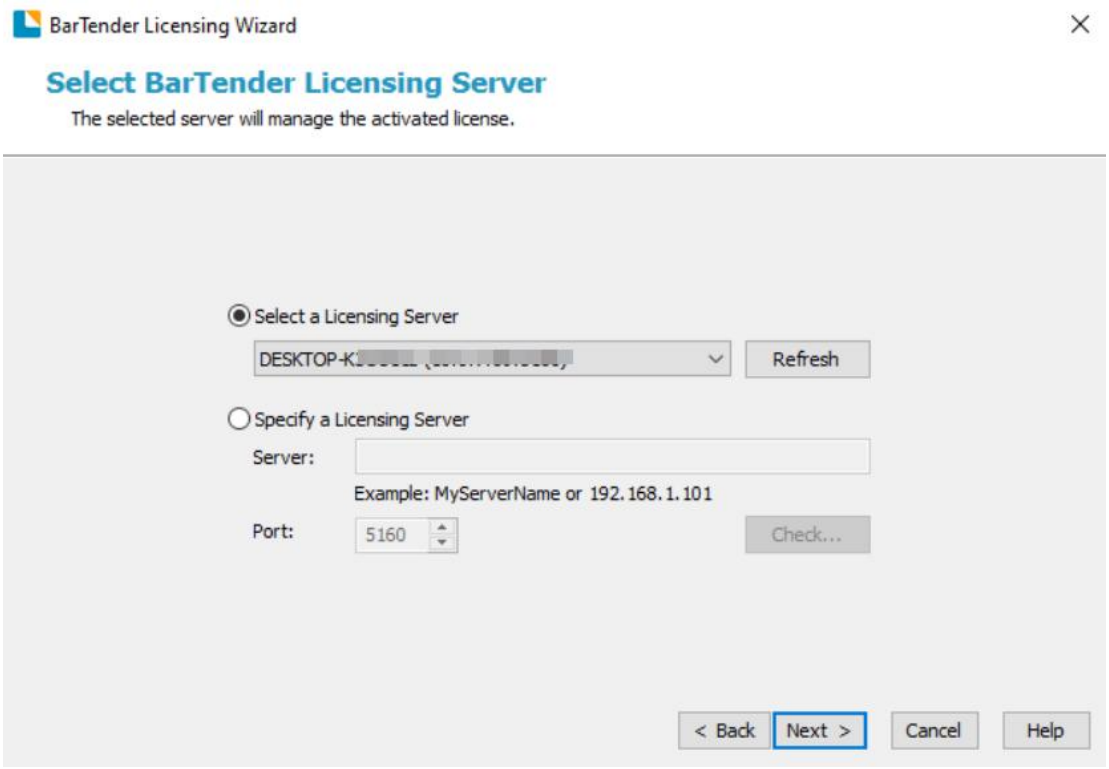


4. Activate new license or find an existing license and click "Next".

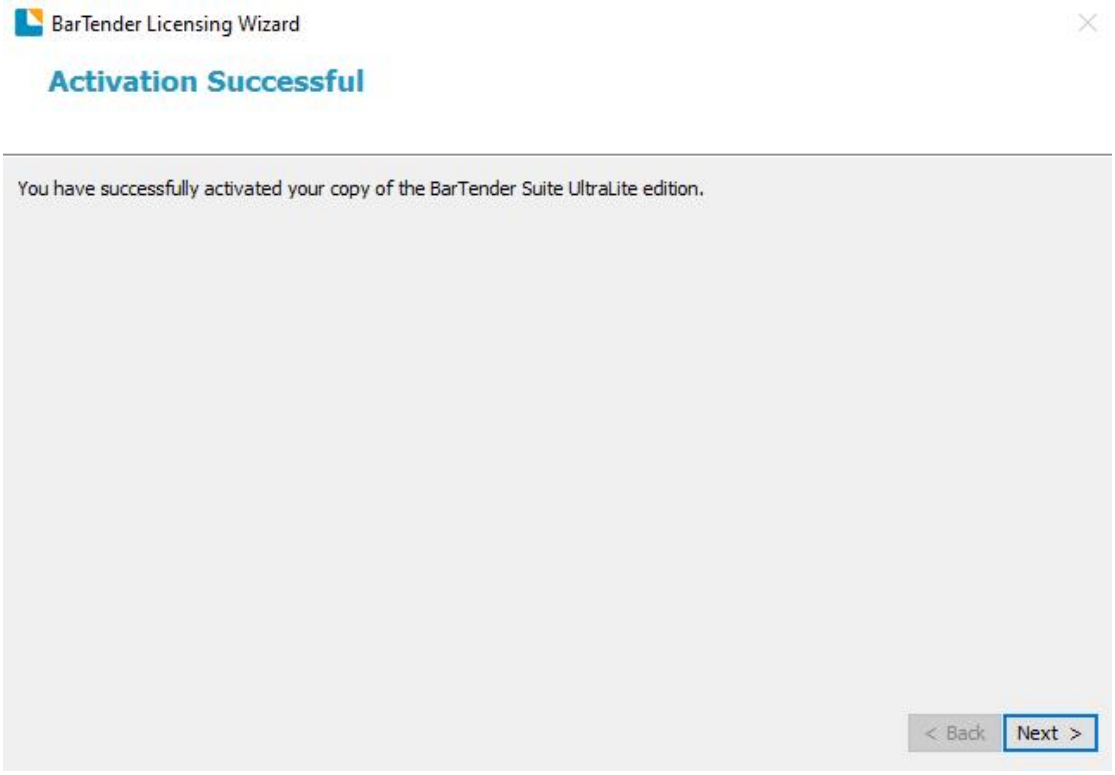
BOXP Bartender Coupon Code: Z0MH-FKHZ-GSMX-58M6

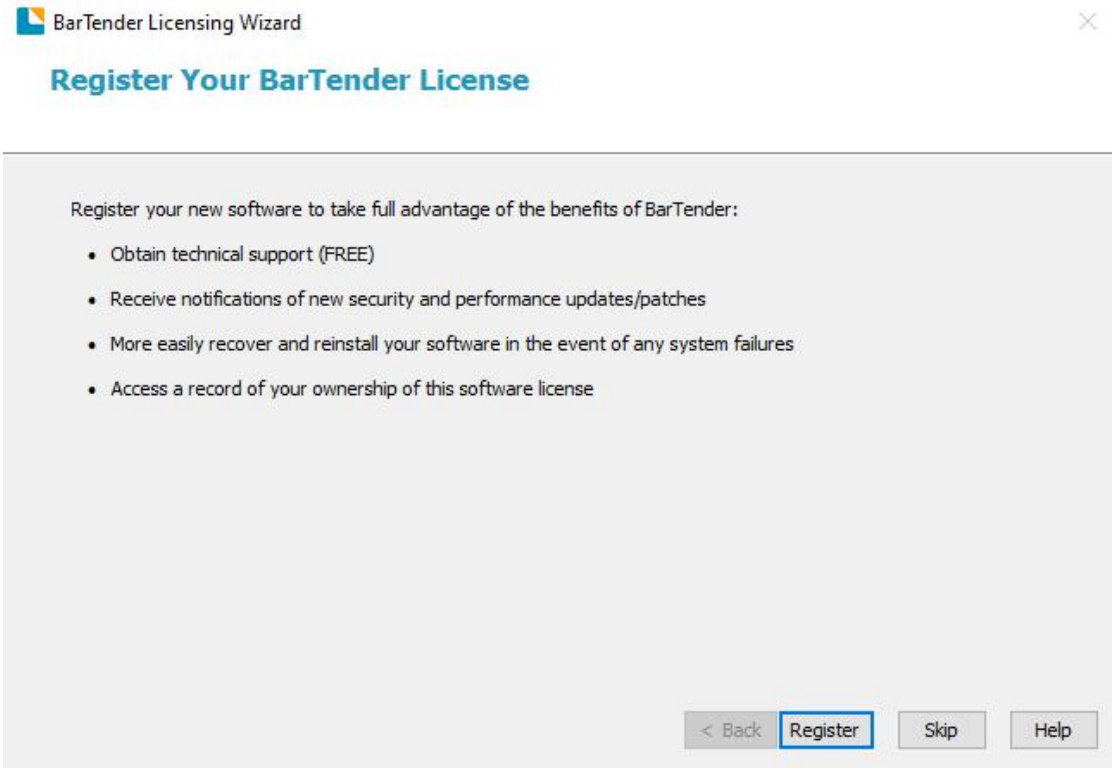


5. Select BarTender licensing server and click "Next".



6. After successfully activate BarTender, register your BarTender license or skip.



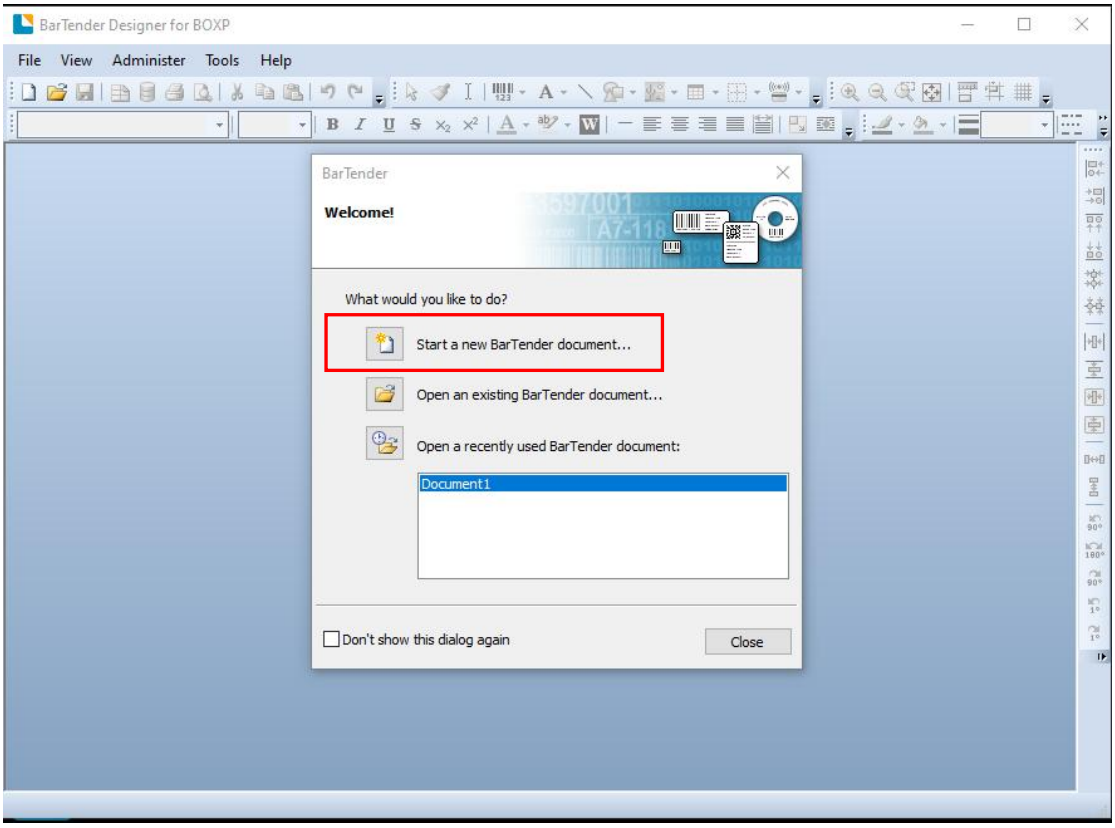


9.4 Usage

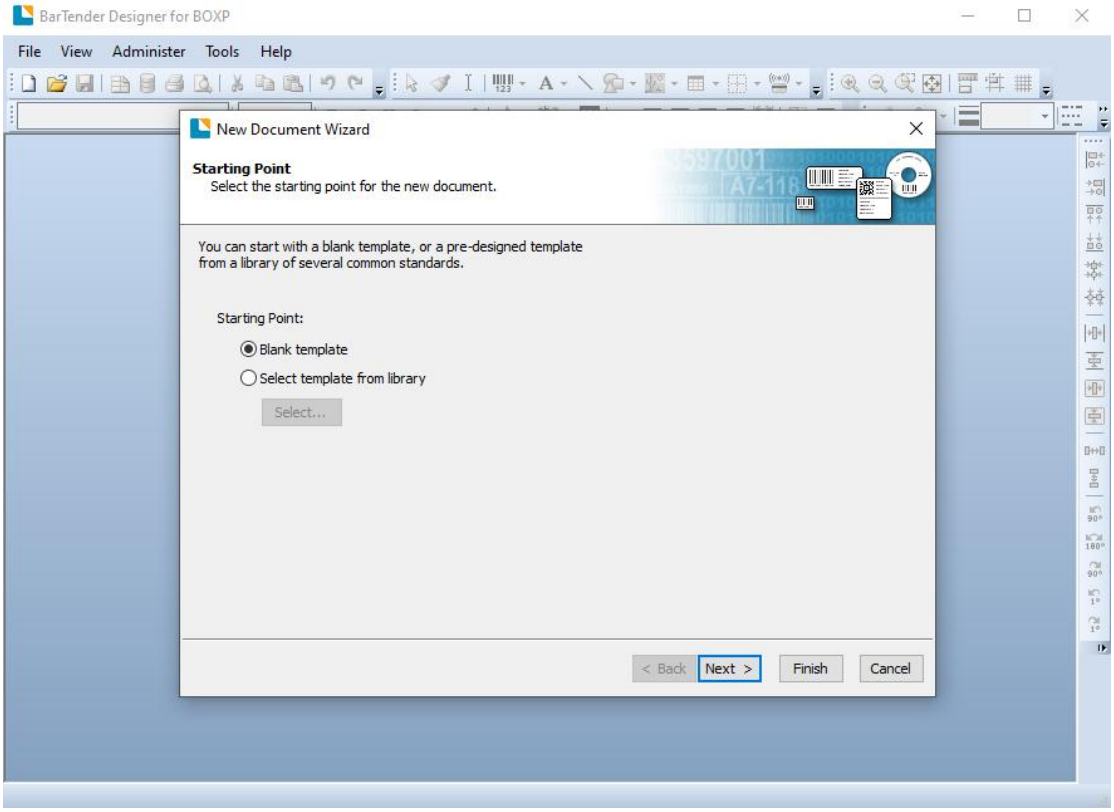
After the software is installed, you can edit the label.

9.4.1 Page Settings

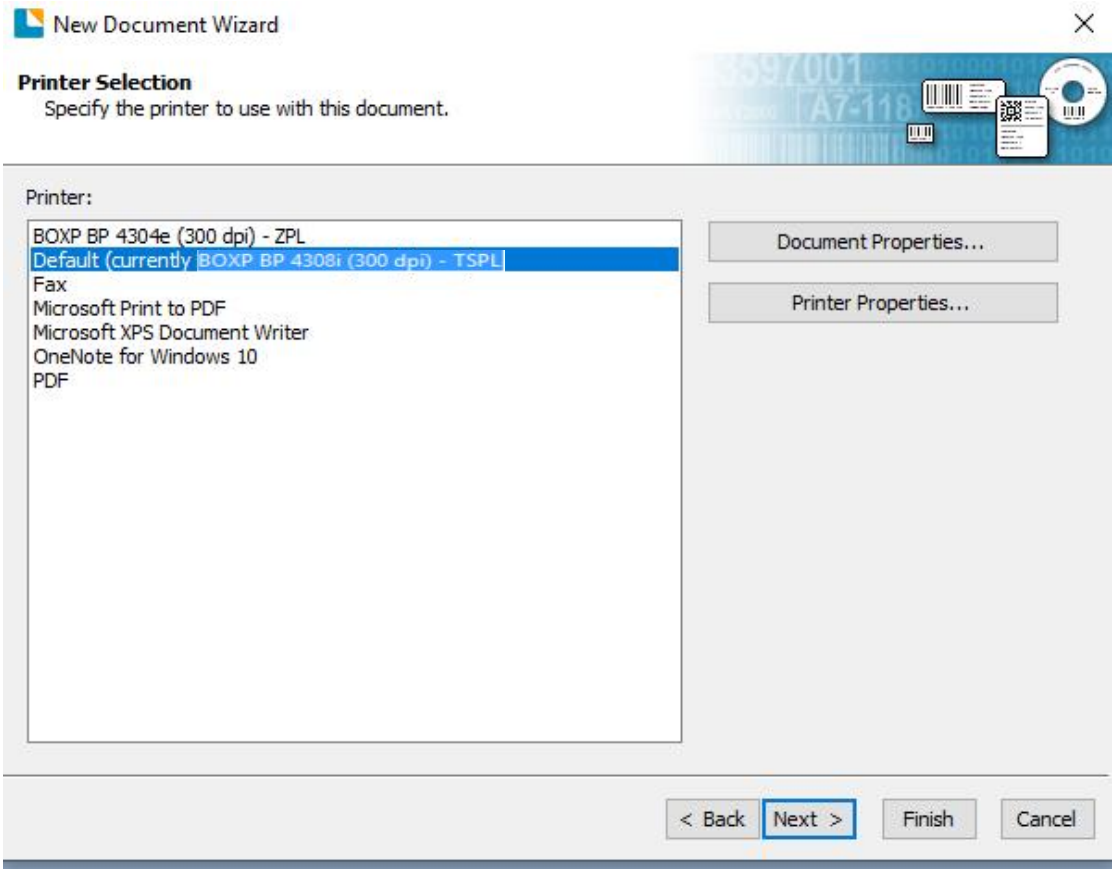
1. Run the BarTender software, click “Start a new BarTender document”.



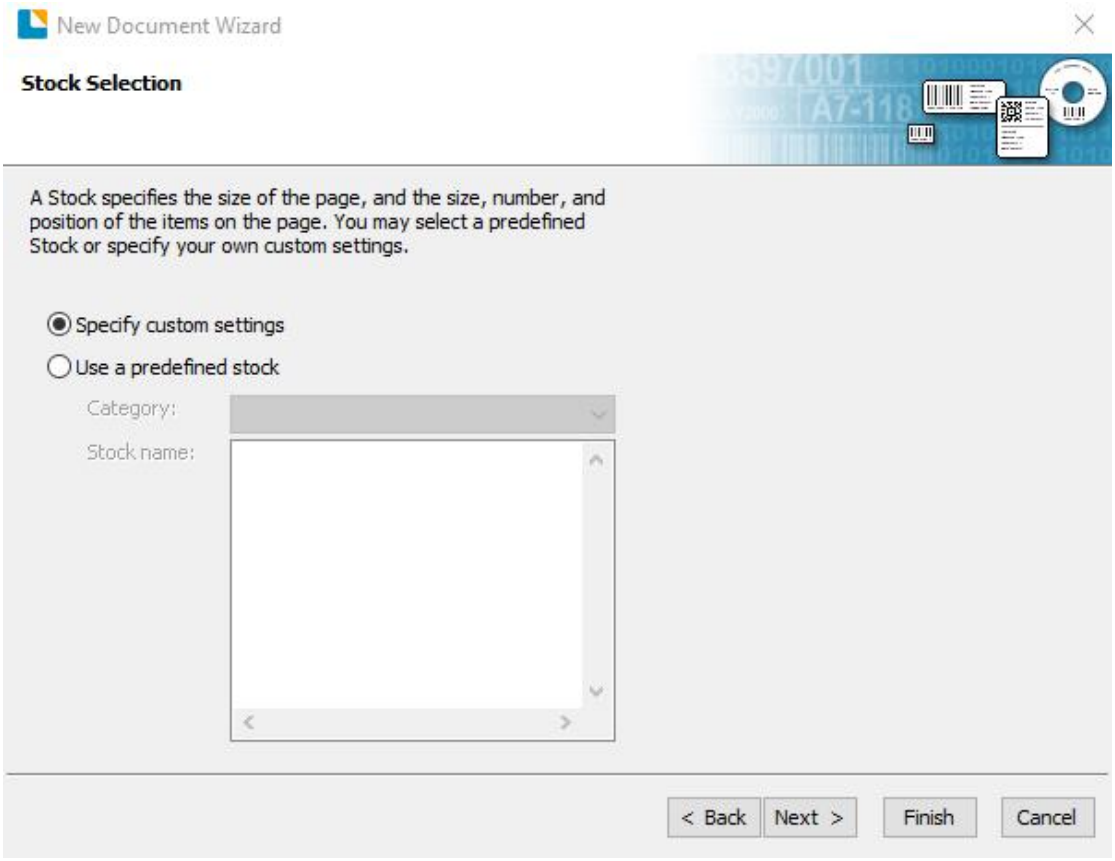
2. Choose “Blank Template”, then click “Next”.



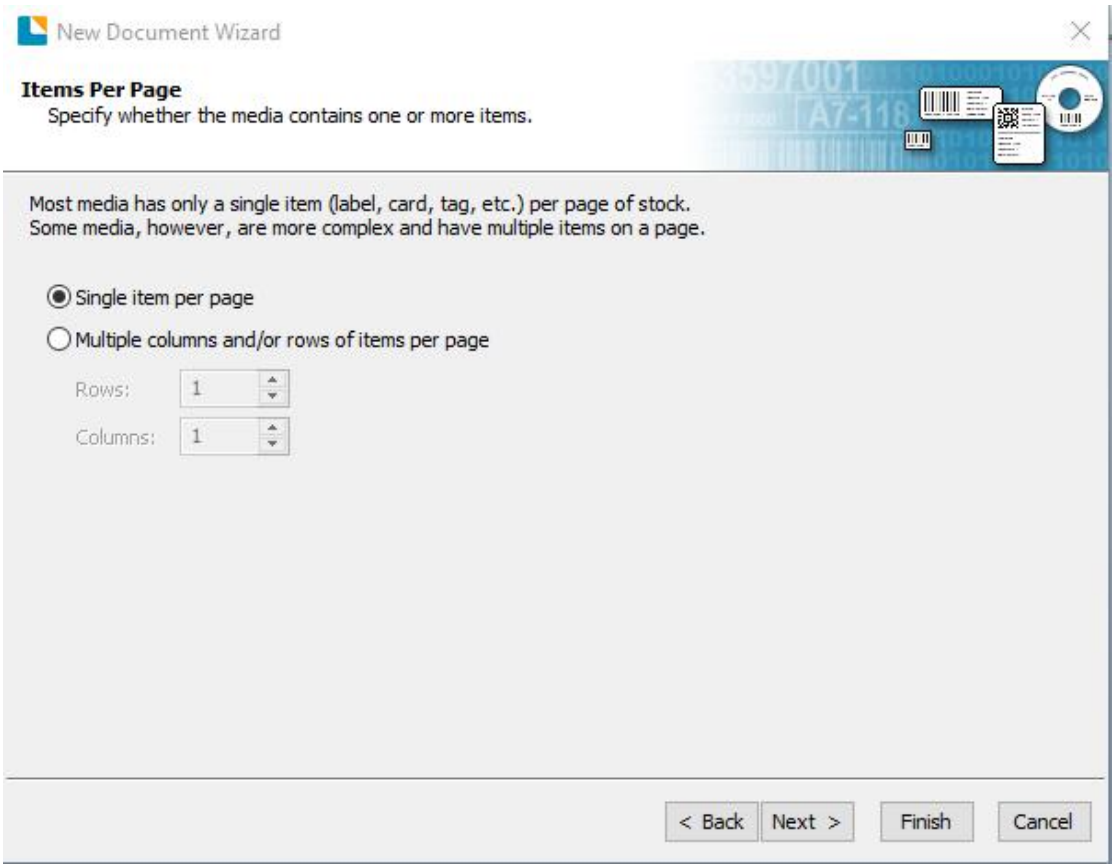
3. Specify the printer to use.



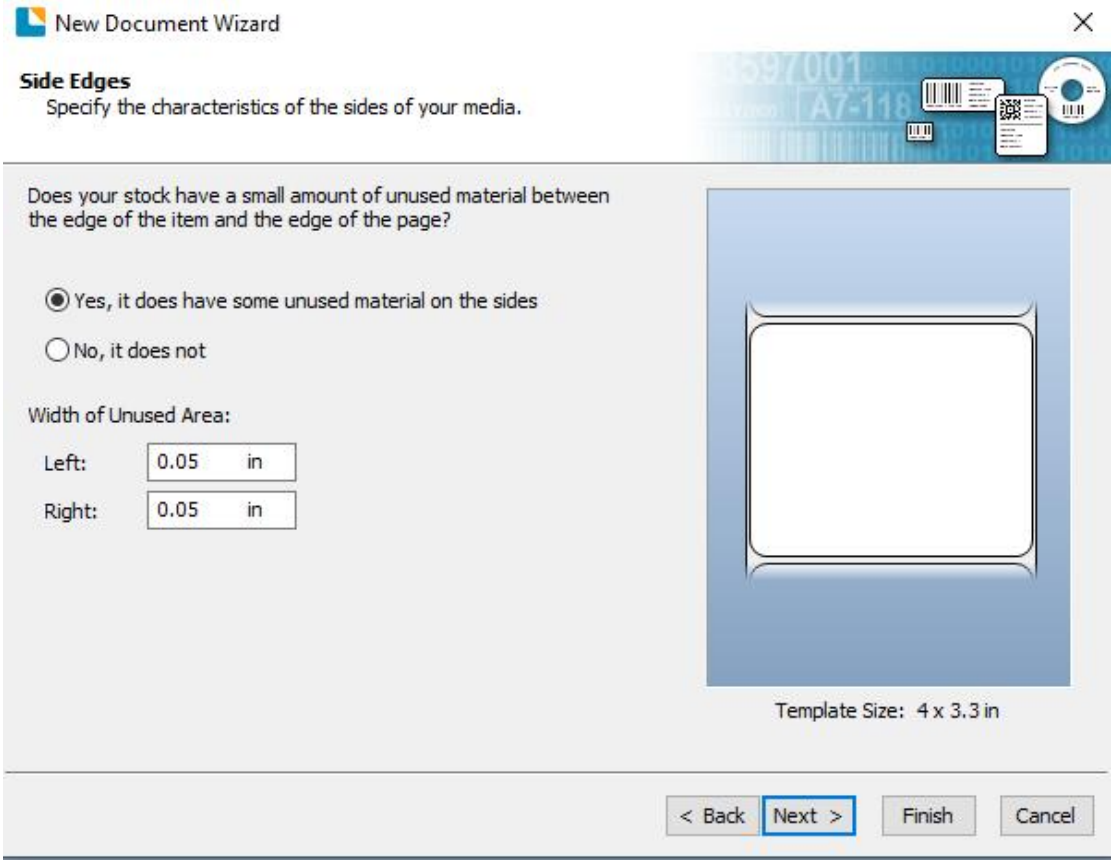
4. If the predefined stocks don't meet your need, tick "Specify custom Settings". Then click "Next".



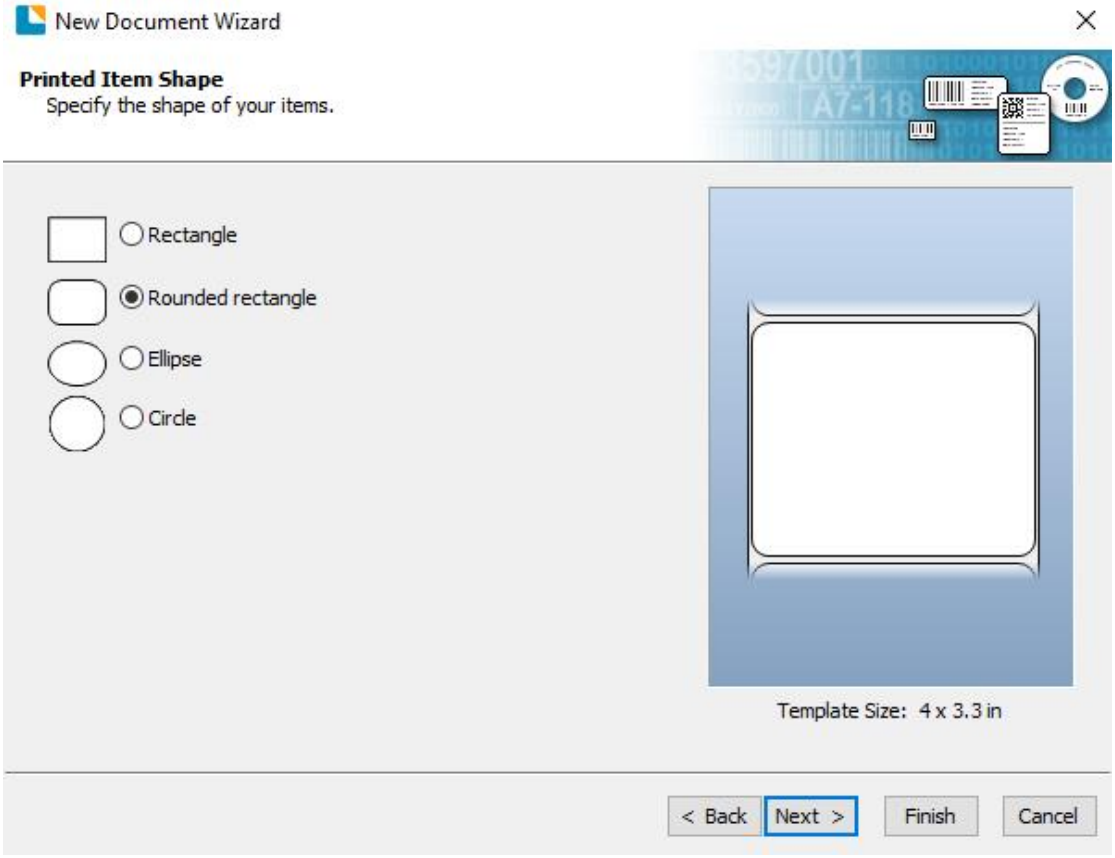
5. Tick "Single item per page", then click "Next". (If you print multiple labels, tick "Multiple columns and/or rows of items per page ".)



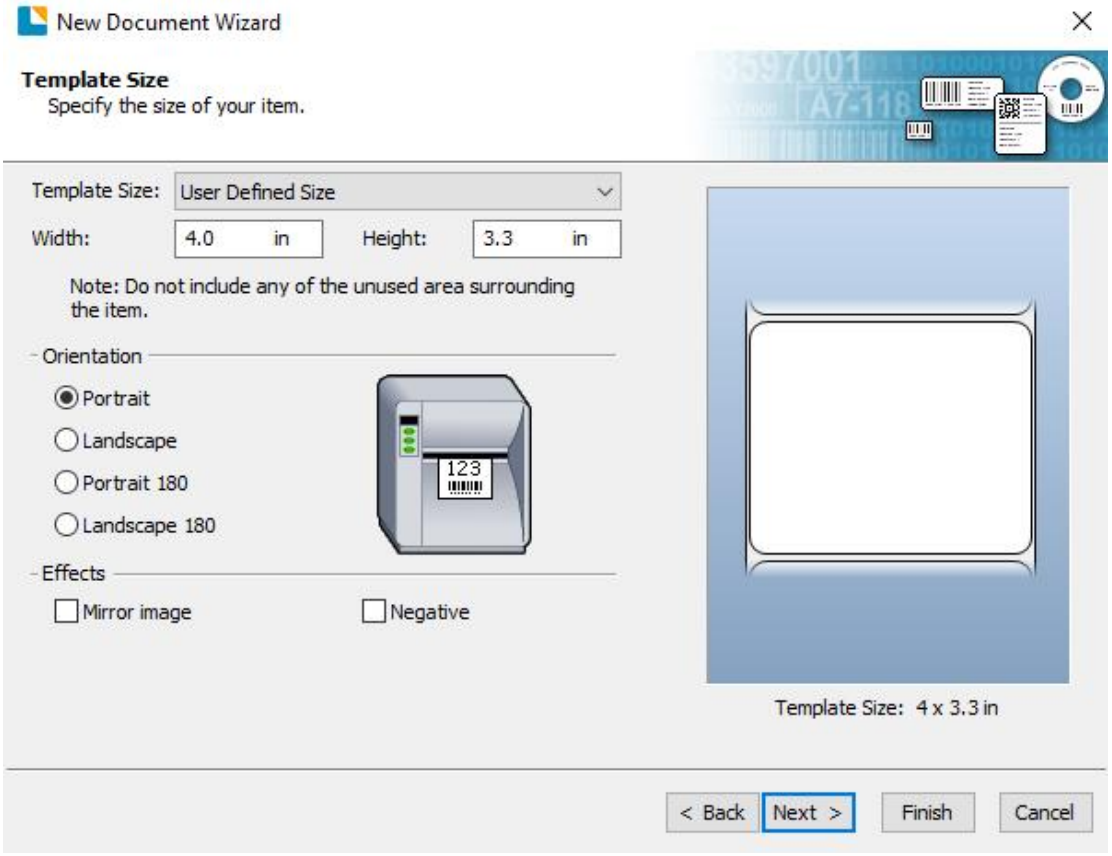
6. Edit the side edges, then click “Next”.



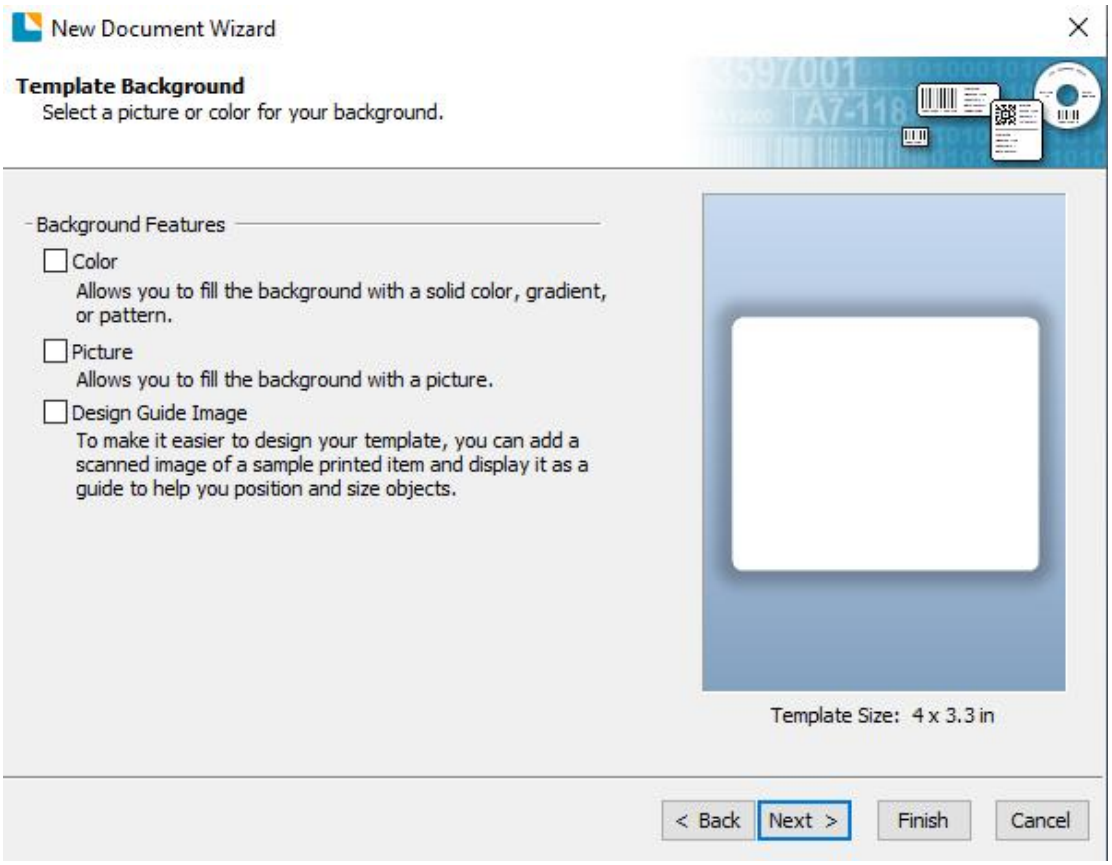
7. Choose the item shape, then click “Next”.



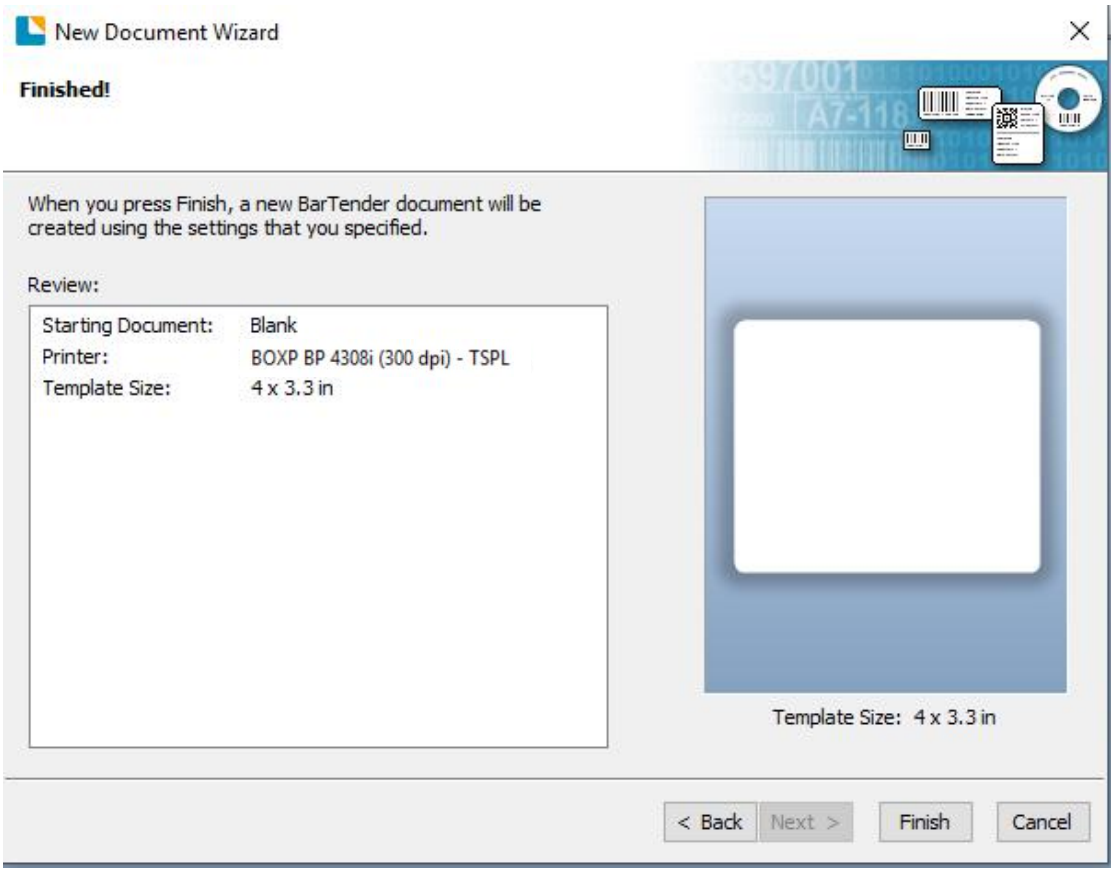
8. Edit the template size, then click “Next”.



9. Based on your need, edit the template background. Then click “Next”.



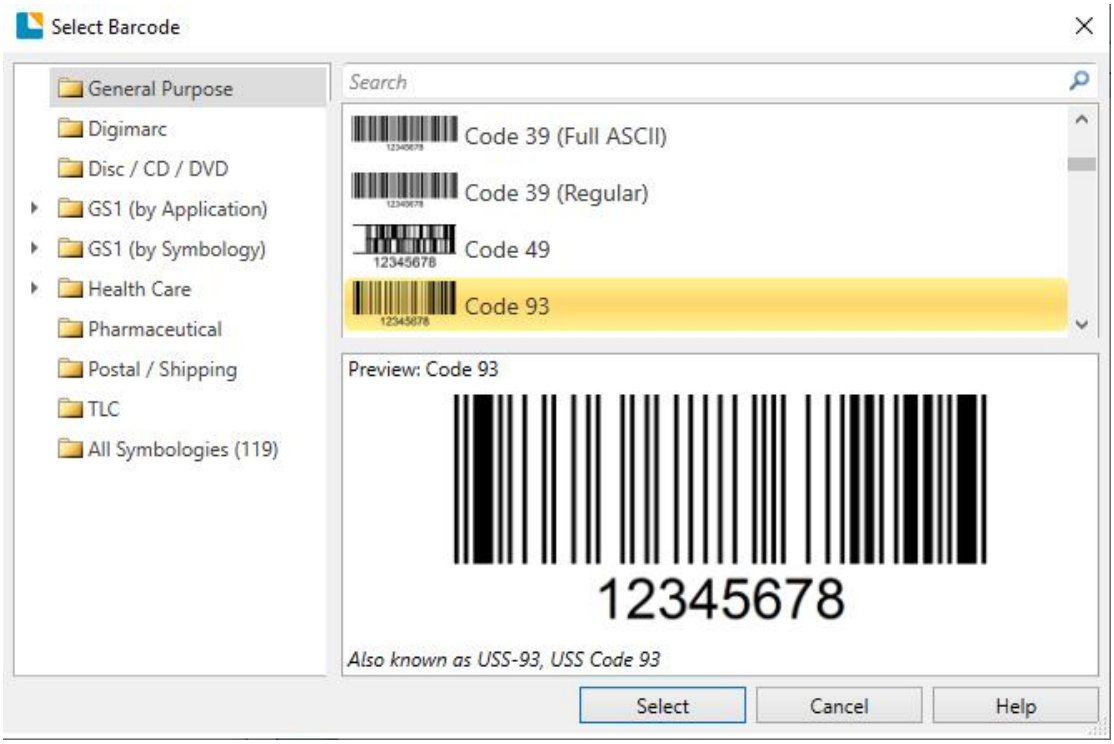
10. Finish the settings, showed in the “Review” and “Preview”. Then click “Finish”.



9.4.2 Label Edit

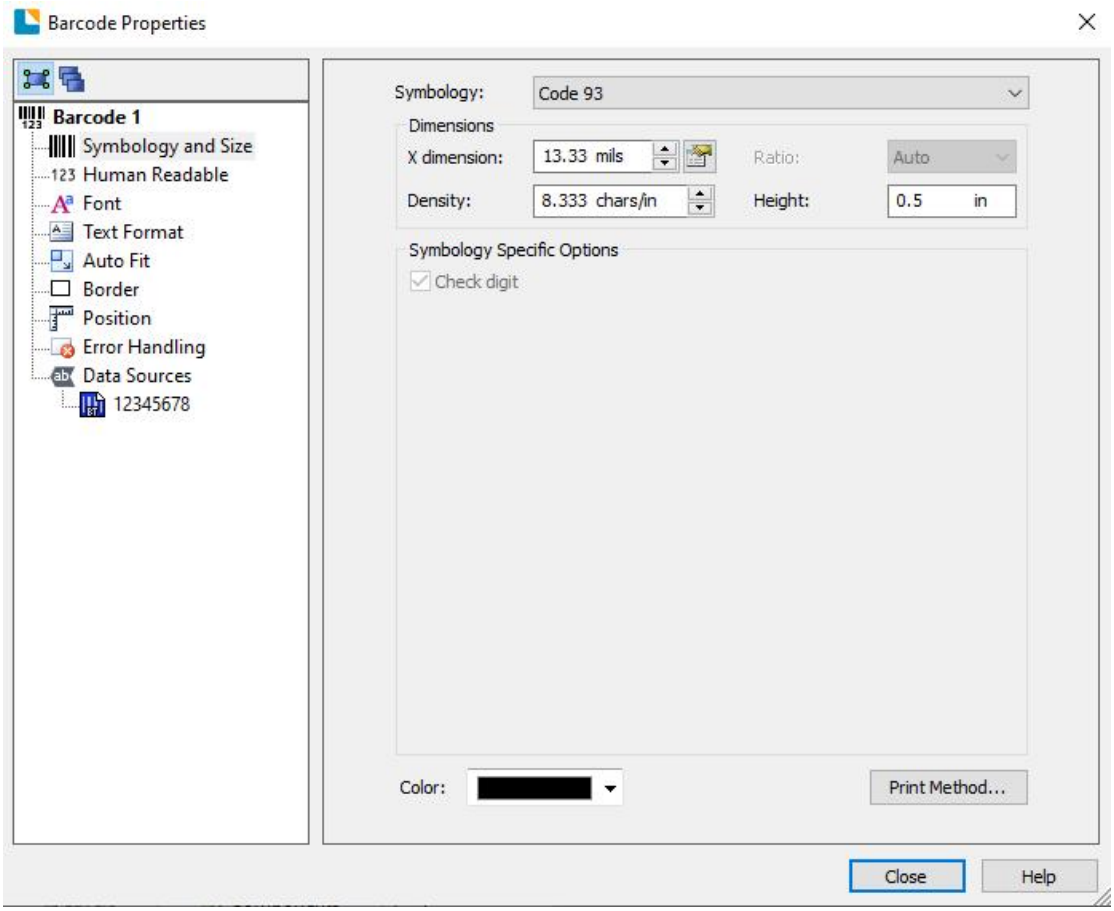
1. Click the icon of code .

2. Choose the code, then click “Select”.



3. Click the blank, showing the code.

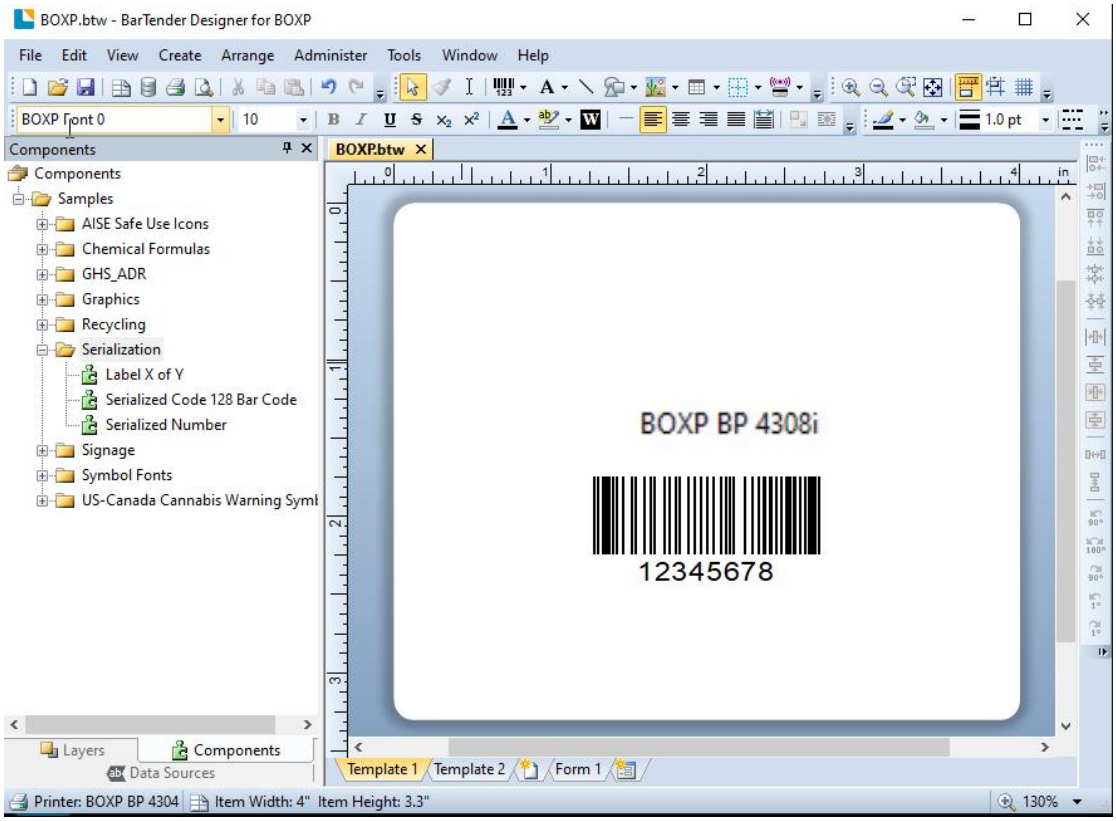
4. Double click the code and edit it. User can set up the size, font, border and so on.



After completing the settings, click "Close".

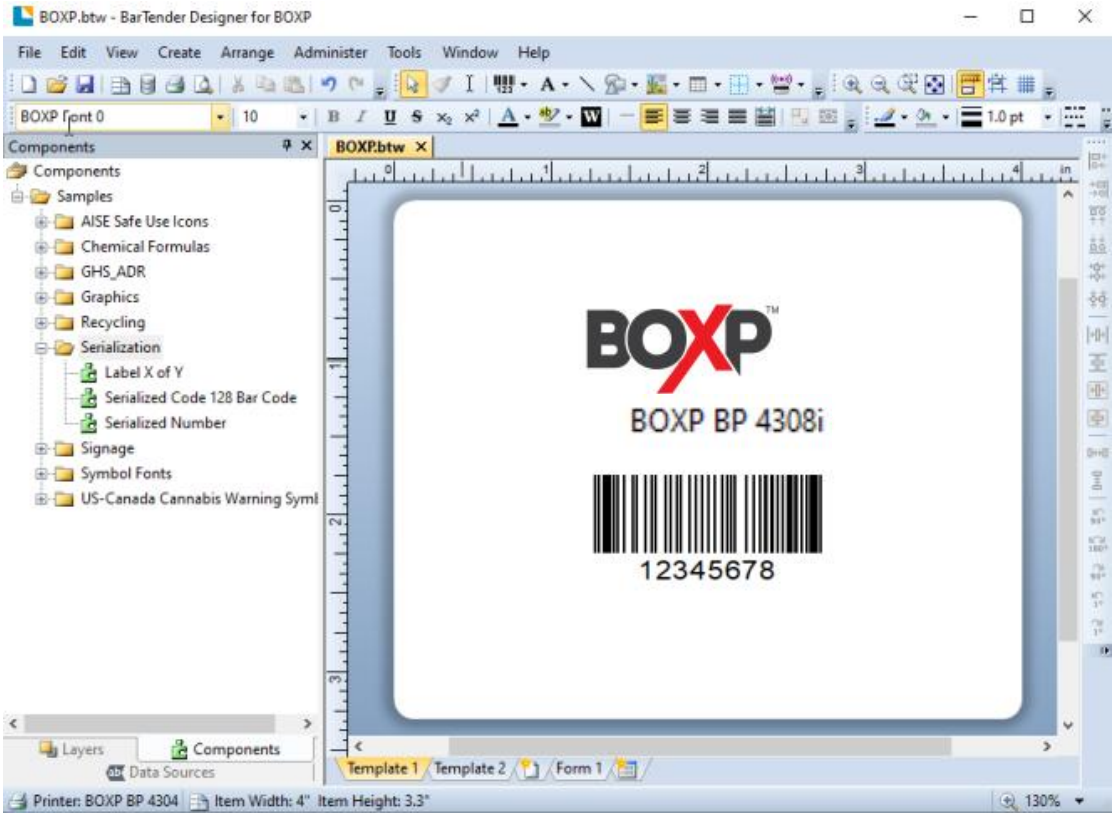
5. Click the icon of character , then enter the text.

6. Left click on the blank page, enter the desired text, and set the text format in the status bar.

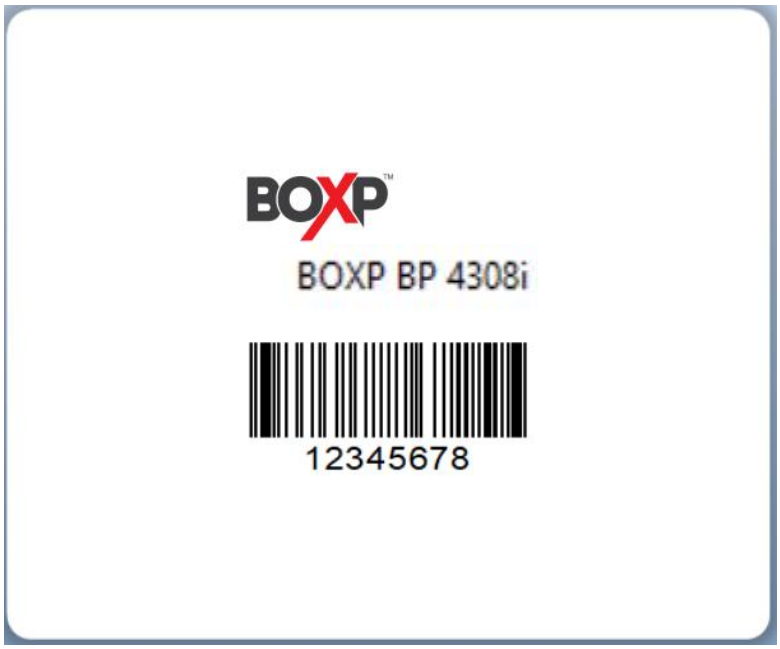


7. Click the icon of picture , then edit the pictures. Left click on the blank page to display the inserted image.

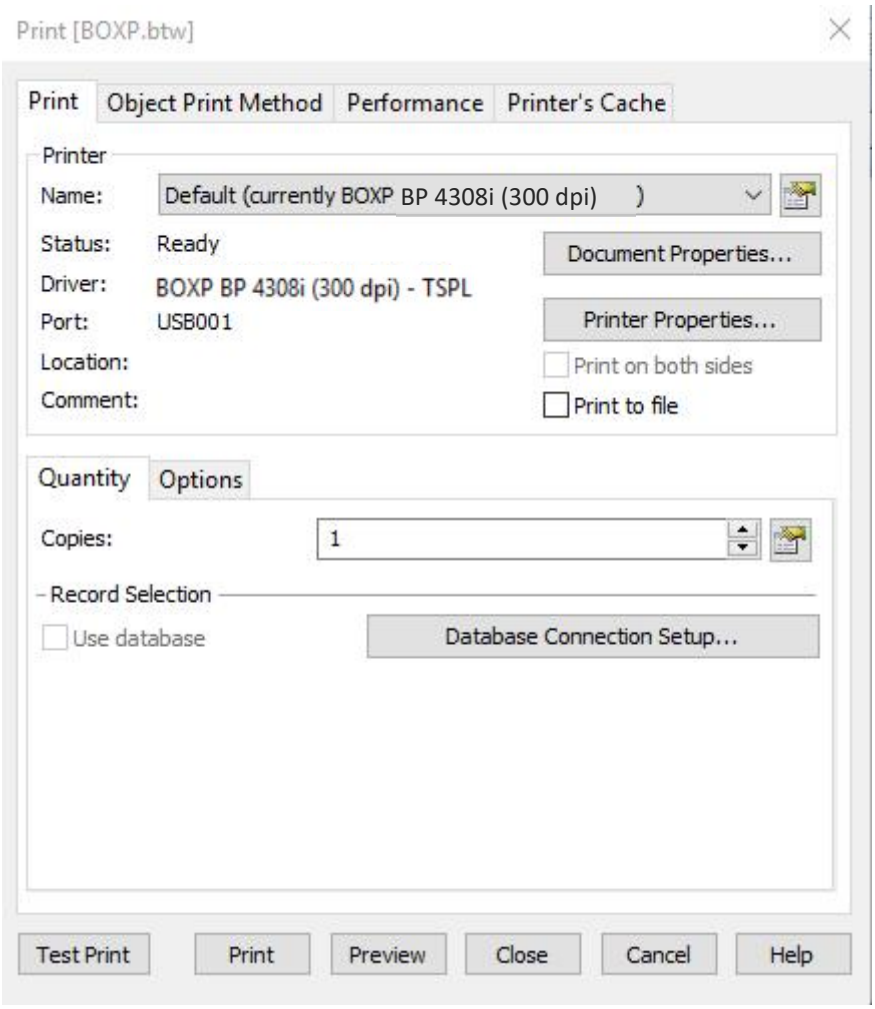
8. Adjust the image size through borders.



9. Move the object and typeset the edited label.



10. Finish all the settings. Click “Print” and a new label will be printed.



Appendix I Display Menu

Main Menu	Submenu	Parameter	Remark
Startup Interface	/		
Setting -> Printing Setup	Print Method	0: DT 1: TT	Default: Factory settings (Locked/unlocked)
	Print Speed	Set printing speed (ips) 2-N	Default: Factory settings N: The maximum value depends on the model (Locked/unlocked)
	Print Darkness	Set printing density 0-N	Default: Factory settings N: The maximum value depends on the programming language. ZPL/DPL/iDPL=30;EPL=20; TSPL=15 (Locked/unlocked)
	Rotation	Rotation direction for label printing 0: 0 ° 1: 90 ° 2: 180 ° 3: 270 °	Default: 0 (Locked/unlocked)
	After Printed	0: Tear Off 1: Peeling 2: Cutting 3: Rotation 4: Roll	Default: 1 (Locked/unlocked)

	Stop Position	Locate the positions for peeling, tearing, and cutter. 0: Automatic 1: Manually 0 - 30.0 mm	Default: Tearing line position Take the print line as the reference point. (Locked/unlocked)
Setting -> Label Setup	Label Type	Select label type. 0: Gap Label 1: Black Mark 2: Continuous	Default: 0 (Locked/unlocked)
	Media Sensor	Set enabled location detection. 0: Auto Sensor 1: Transmissive 2: Reflective	Default: 0 (Locked/unlocked)
	PL Simulation	Automatically or manually specified. 0: Automatic 1: ZPL 2: TSPL 3: EPL 4: DPL 5: iDPL	Default: 0 (Locked/unlocked)
	Codepage	0: CP850 1: CP852 2: CP437 3: CP860 4: CP863 5: CP865 6: CP857	Default: 0 (Locked/unlocked)

		7: CP861 8: CP862 9: CP855 10: CP866 11: CP737 12: CP851 13: CP869 14: Win 1252 15: Win 1250 16: Win 1251 17: Win 1253 18: Win 1254 19: Win 1255 20: Win 1257 21: UTF-8 22: UTF-16B 23: UTF-16L	
	Print Y Offset	Adjust the vertical coordinates of the printing start position. ＋/- 120 dots	Default: 0 (Locked/unlocked)
	Print X Offset	Adjust the horizontal starting position of printing. ＋/- 120 dots	Default: 0 (Locked/unlocked)
	Advanced learning	Paper length(mm)	
	exhausted ribbon	0: OFF 1: ON	

	Labeller Enable	0: OFF 1: ON	
Setting -> LCD Setup	LCD Timeout	0: Do not sleep 1: 10s-9: 90s	Default: 1
	LCD Brightness	0-9	Default: 4
	LCD Language	0: English 1: Spanish 2: Portuguese 3: Franch 4: German 5: Ukrainian 6: 日本语 7: 中文简体 8: 中文繁體 9: Italiano 10: Русскии	Default: 0 9: Downloadable changes
	Security Password	NNNN	Default: 0000 N: 0-9 NNNN: 0000 indicates no password
	Standby Display	0: Ready 1: Date/Time	Default: 0
Setting -> Int. Device	Buzzer Volume	0-3 0: OFF 1: 1 2: 2 3: 3	Default: 2
	Date	YYYY/MM/DD	Default: 2016/01/01
	Time	HH:MM:SS	Default: 00:00:00

Setting -> RS232 Setup 	Baudrate	0: 9600 1: 19200 2: 38400 3: 57600 4: 115200	Default: 0
	Data Bits	0: 7-bit 1: 8-bit	Default: 1
	Parity	0: None 1: Odd 2: Even	Default: 0
	Flow Ctrl	0: None 1: XON/XOFF 2: Hardware	Default: 2
Setting -> Ethernet Setup 	Switch	0: OFF 1: ON	Default: Factory settings
	Address Mode	0: DHCP 1: Static	Default: 1
	IP Address	NNN.NNN.NNN.NNN	Default: 192.168.1.1 N: 0-9; NNN: 0-255
	Default Gateway	NNN.NNN.NNN.NNN	Default: 192.168.1.0 N: 0-9; NNN: 0-255
	Subnet Mask	NNN.NNN.NNN.NNN	Default: 255.255.255.0 N: 0-9; NNN: 0-255
Setting -> Wireless Setup 	Bluetooth	Switch 0: OFF 1: ON	Default: 0
		SPP Pairing Code NNNN	Default: 0000 N: 0-9
	WiFi	Switch	Default: 0

		0: OFF 1: ON	
		Networking Mode 0: AP mode 1: Station mode	Default: 0
		Username SSID (read-only) English numerical characters	AP Default: Printer Model ST Default: (Blank)
Setting -> Ext. Device	Keyboard	Connection port 0: None 1: USB Host (Automatic connection) 2: RS232	Default: 0
	Keyboard Language	0: English 1: Spanish 2: Portuguese 3: Franch 4: German 5: Ukrainian	Default: 0
	Barcode Scanner	Connection port 0: None 1: USB Host (Automatic connection) 2: RS232	Default: 0
Testing	TPH Printed Mileage	Display the printing mileage of the printer 0-99999.99 meters	Excluding blank paper mileage
	TPH Bad Dot Scan	Abnormal scanning test of impedance of print head	Tested, total return bad points

	TPH Bad Dot Printing Test	Print test sheet	
	Label Calibration	Label learning and correction	Stop at the corresponding stopping position according to the settings for tearing/peeling/cutter
	Media Sensor Printing	Signal quantitative waveforms detected by print media	Detection according to specified sensor mode
	Dump Mode	Print the received data and automatically wrap it if the label width exceeds the limit	Press the FEED button to return to standby mode
	Cutting Test	Test the cutter function	Errors will be reported
	Restore Factory Default	Are you sure to restore factory settings? Y/N 0: NO 1: YES, the downloaded and stored file files will still be retained and not cleared	Default: 0
	Firmware Update	Automatically list firmware files, select the file and confirm whether to read the specified firmware from the USB disk for updates? 0: Printer firmware 1: Display firmware 2: Display screen image package	Default: 0

		3: Display screen specific page	
Config Info	Printer Configuration	Print the current printer settings information	
	Internal Font List	Print all built-in glyph templates	
	Barcode Lists	Print all barcode templates	
	Internal Flash File List	Print user flash file list	
	External Memory File List	Print user memory file list	
	LCD Configuration	View LCD configuration information	
Smart Printing	File Management	List display/copy/delete/start label format printing for label formats/images/fonts/databases/firmware in the specified storage. I:\.. (Internal Flash) U:\BOXP\... (External USB Storage)	Default: List

	Auto Form	The printer automatically runs the selected label format after it is turned on. 0: No 1: Yes	Default: 0

Appendix II Warning Message

Icon	Description
No Form Found	Form is not found. Check if the files are exactly stored in the memory device
No Image Found	Image is not Found. Check if the image is exactly stored in the memory device
No Fonts Found	Fonts is not found. Check if the font is exactly stored in the memory device
No F/W found	Firmware files are not stored in the USB storage when updating the firmware
No Battery Found	Battery is not installed in the printer when setting time and date. Check if the battery power runs out or not installed well
Password Error	Wrong password is entered. Enter the correct password to modify the protected parameters.
USB storage Lock	Printer cannot write the data to the USB storage. Unlock the USB storage
No USB storage found	There is no USB storage installed in printer when updating the printer. Check if the USB storage is well inserted in printer.
No Cutter Found	Cutter is not installed on printer when execute the cutter test
Ethernet Error	Ethernet port is disconnecting.
Flash ROM Full	Internal flash ROM is full. Delete un-necessary files to store the current files.
Found No Bluetooth	There is no Bluetooth module installed in the printer.
Found No WiFi	There is no WiFi module installed in the printer.
Material too thick	Material is too thick or hard, cutter takes longer time to return the blade to the initial position after cut.

Appendix III Printer Status

Icon	Status Description
Ready	Printer is idle.
Printing	Printer is printing something.
Feeding	Feeding the Label.
Cancel Job	Cancel the current printing job.
Pause Printing	Pause the current printing job.
Wait label taken	Wait to peel the printed label to print the next label.
Wait on Demand	Wait to press the feed button to print the next label.
Saved	Save the change of parameters to printer.
Dump Data printing	Catch the data from communication port and send to printer to print out.
Media Calibration	Press the Feed button to calibrate the label.
Receiving Data	As soon as all of the data has been received, the printer will automatically resume operation.
Refresh Firmware	Printer is writing the new firmware codes to the Flash memory.
Reboot firmware	Restart printer.
Formatting USB mass storage	Printer is creating the needed folders and control files to the USB mass storage.