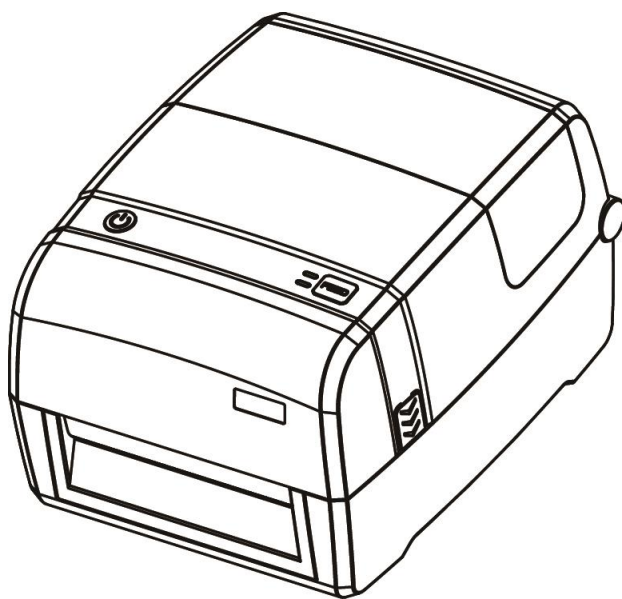


CST

TP-48



User Manual

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■ Statement

This manual content may be altered without permission, and our company reserves the rights to make changes without notice in technology, spare parts, hardware and software of the products. If more information is needed about the products, please contact our company. Without any written permission from our company, any section of this manual is prohibited to be copied or transferred in any form.

■ 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 always easily accessible.

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 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.

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 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.

- 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.

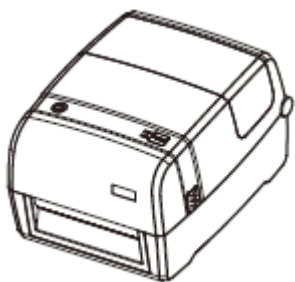
Chapter 1 Introduction

1.1 Packing List

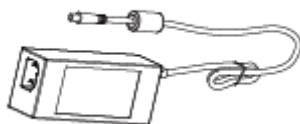


Note:

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



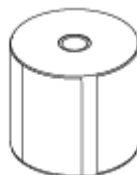
AC Adapter



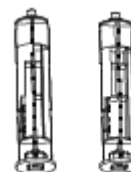
Power Cord



USB Cable



Label Roll



Ribbon Spindles



Ribbon



Empty Ribbon Core



CD



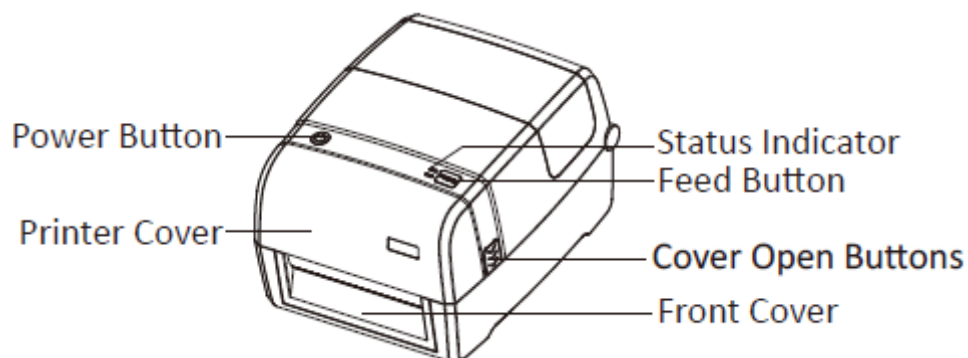
Quick Start Guide



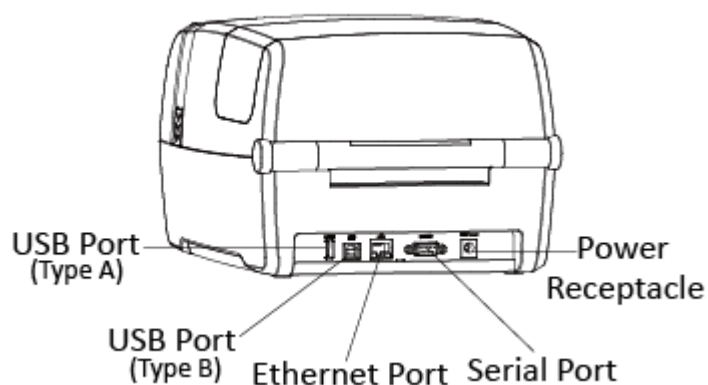
Note: The packing materials are based on the order.

1.2 Appearance and Components

■ Front View

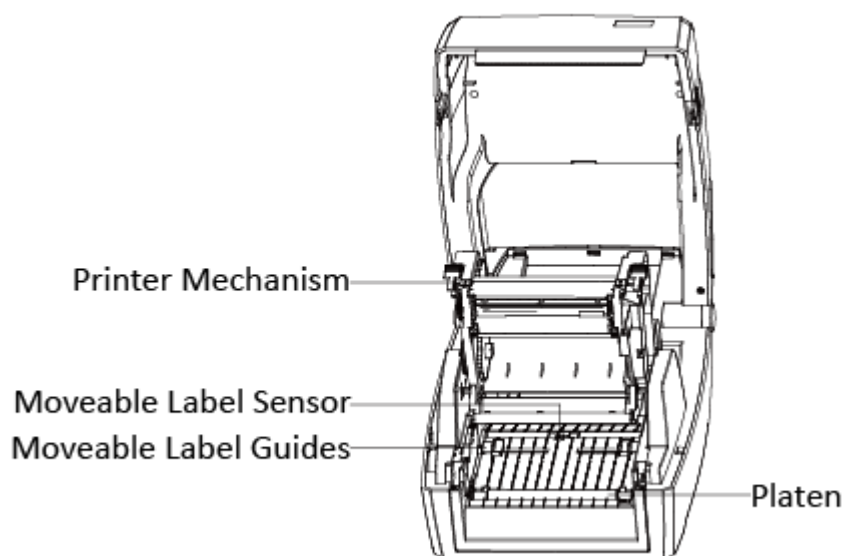
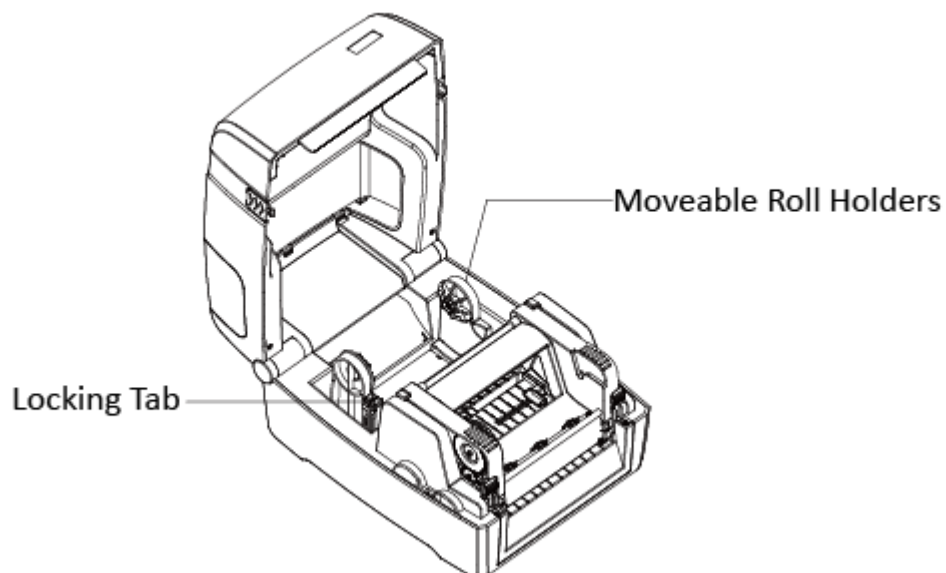


■ Rear View

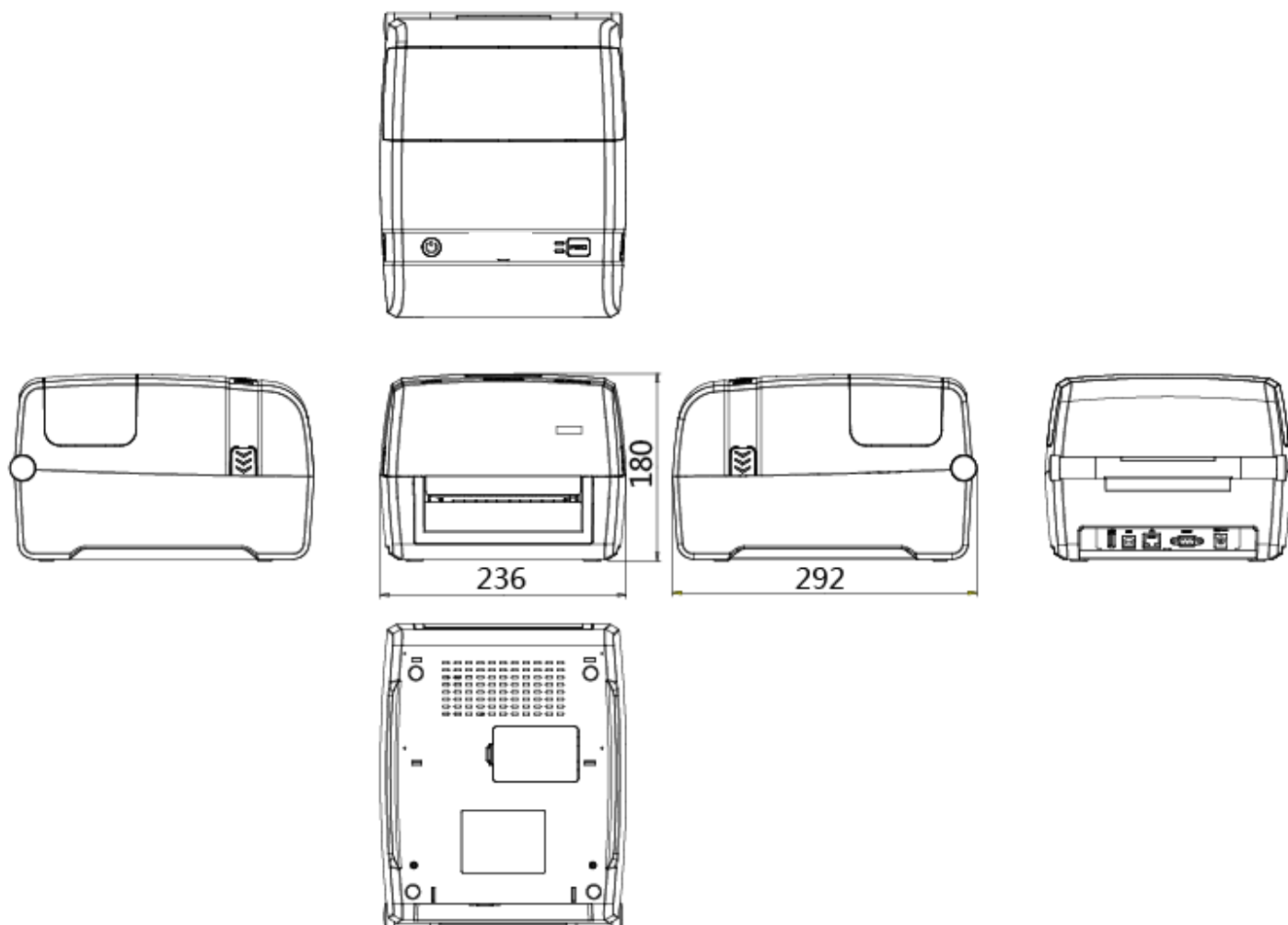


Note: The views above are for your reference. Ports vary by your choice.

■ Inside View



1.3 Dimension



Chapter 2 Specifications

Item		Parameter
Printing	Printing Method	Thermal transfer/Direct thermal
	Resolution	STD 203dpi, OPT 300dpi
	Max.Printing Speed	8 ips (203dpi)
		6 ips (300dpi)
	Max.Printing Width	108 mm(203dpi),106 mm(300dpi)
	Max.Pringting Length	2,286 mm(203dpi),1,524 mm(300dpi)
Memory	RAM	128MB
	Flash	256MB
Programming Language		ZPL-II,EPL-II,DPL
Detection	Sensor	Print Frame Open Detect, Ribbon End Detect, Paper Out Detect, TPH Over Heating Detect, 2 Fixed See-through sensor, Full Range Reflective Detect, Position Detect
Media	Types	Continuous Paper, Gap, Black Mark, Punched Hole Label
	Width	1"(25.4)-4.65"(118 mm), include the liner
	Thickness	0.002"(60um)-0.01"(250um)
	Label Roll Diameter	5"(127 mm) Max
	Core Diameter	0.5"(12.7 mm), 1"(25.4 mm). 1.5"(38 mm)
Ribbon	Type	Wax, Wax/Resin, Resin
	Width	1.18"(30 mm)-4.33"(110 mm)
	Length	984'(300 m)
	Core Diameter	1"(25.4 mm)
Software	Label Design Software	HPRT Bartender Ultralite
	Driver	Windows 7,8,10, server 2008,2012
		CUPS for Linux and MAC OS
Resident Fonts	Bitmap fonts	6, 8, 12, 16, 32, OCR A & B. 90°, 180°, 270° rotatable and 10 times expandable in horizontal and vertical directions
	TTF fonts	Monotype CG Triumvirate™. 0°, 90°, 180°, 270° rotatable

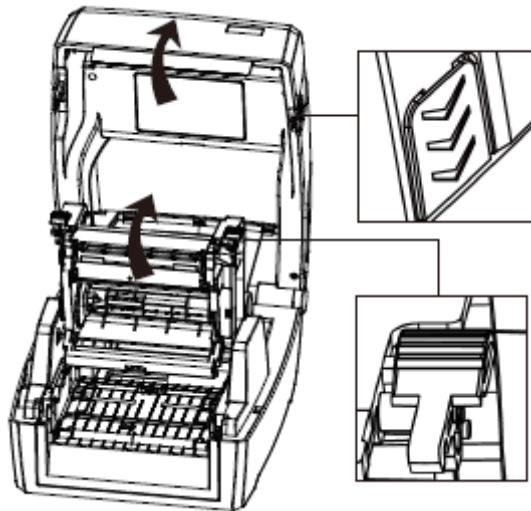
Item		Parameter
Download Fonts	Bitmap fonts	90°, 180°, 270° rotatable and 10 times expandable in horizontal and vertical directions
	Asian fonts	16x16, 24x24. Traditional Chinese, Simplified Chinese, Japanese, Korean, 90°, 180°, 270°, rotatable and 8 times expandable in horizontal and vertical directions
	TTF fonts	90°, 180°, 270° rotatable
Barcodes	1D	Code 39, Code 93, EAN 8/13 (add on 2 & 5), UPC A/E (add on 2 & 5), I 2 of 5, Codabar, Code 128 (subset A,B, C), EAN 128, MSI, Plessey, Telepen, GS1 DataBar, Standard 2 of 5, Industrial 2 of 5, Code 11, Code 49
	2D	PDF417, Data matrix code, QR code, Micro PDF417, Aztec code
Code Pages		850, 852, 437, 860, 863, 865, 857, 861, 862, 855, 866, 737, 851, 869, WINDOWS 1250, 1251, 1252, 1253, 1254, 1255, 1257, UTF-8, UTF-16BE, UTF-16LE, DBCS 932 (JIS), 936(GBK), 949 (Koran), 950(BIG5)
Graphics		Resident graphic file types are BMP and PCX, other graphic formats are converted by the software download
Interfaces	Standard	USB, RS232, Ethernet
	Optional	Wi-Fi, Bluetooth
Control Panel		Power switch button, FEED button, 2 indicating LED
LCD Display		Not Support
RTC Function		Not Support
Power Supply		External AC/DC switching power adapter, AC 100V-240V/DC 24V/2.5A/60W, Peak 9A
Environment	Operation	5 to 50°C@ humidity 25% to 85% non-condensing
	Storage	-40 to 60°C@ humidity 10% to 90% non-condensing
Physical Characteristic	Dimension (L*H*W)	308*250*180 mm
	Weight	About 2.9 kg
Options & Accessory		Peeler Module, Cutter Module, External Label Roll Holder
Agency Approval		CE EMC (EN 55022 Class B), FCC EMC (Class A), CCC, RoHS

Chapter 3 Installation & Usage

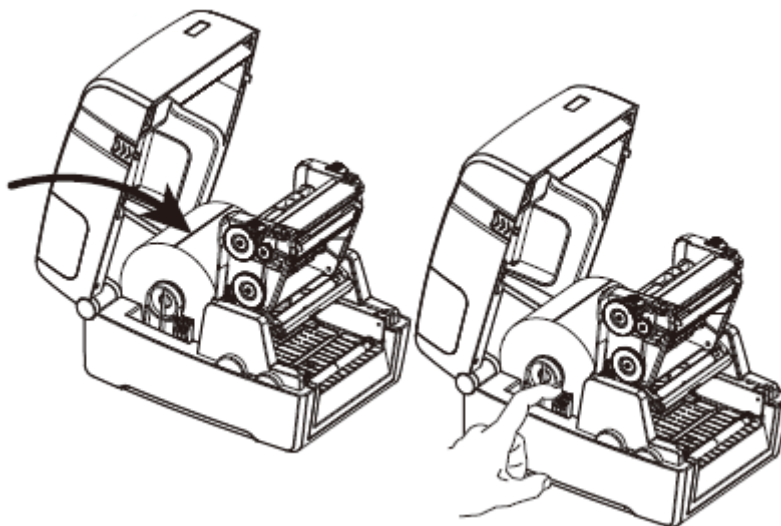
3.1 Media Loading

3.1.1 Loading the Roll

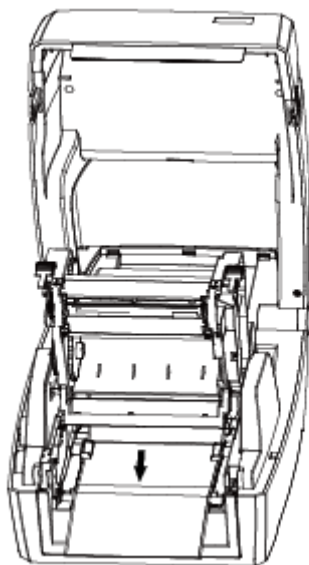
1. Press to open the printer cover and mechanism.



2. Pull the roll holders open and place the roll between them. And press down the locking tab.



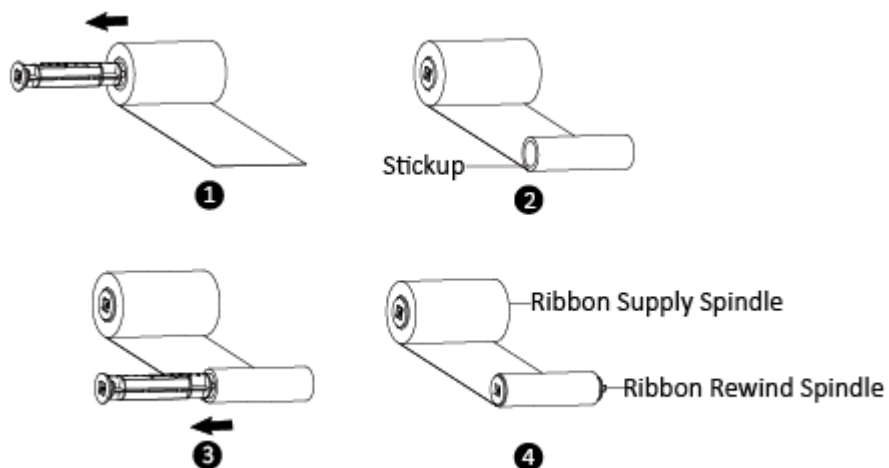
3.Pass the labels through label guides and adjust label guides to label's width.



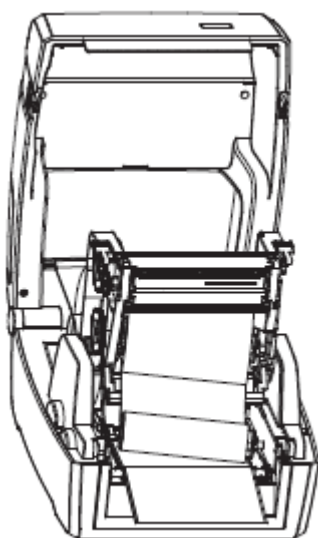
Note: If your printer is under Thermal Line Printing Method, press down the printer cover until it snaps closed. Otherwise, continue the procedure in chapter 3.1.2.

3.1.2 Loading the Ribbon

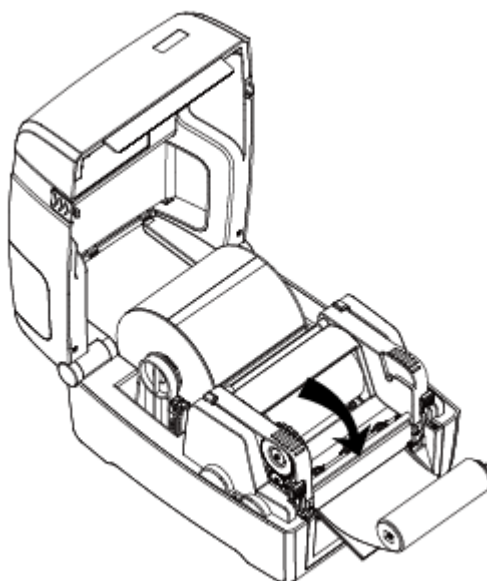
1. Install the ribbon module.



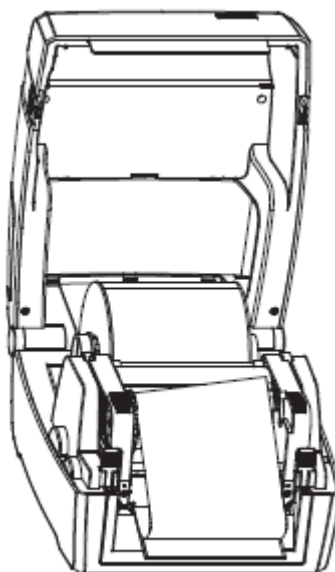
2. Insert the left part of supply spindle and then the right part.



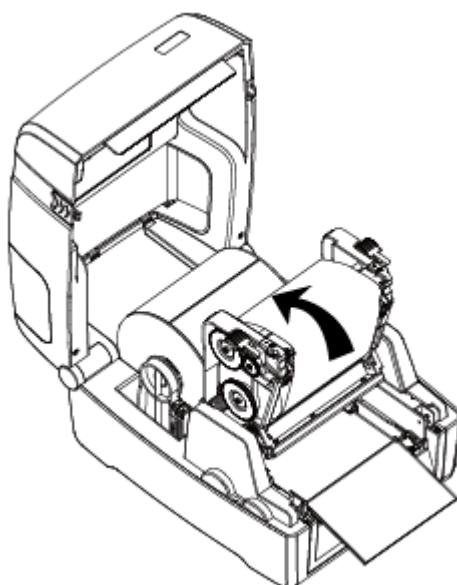
3. Press down the printer mechanism.



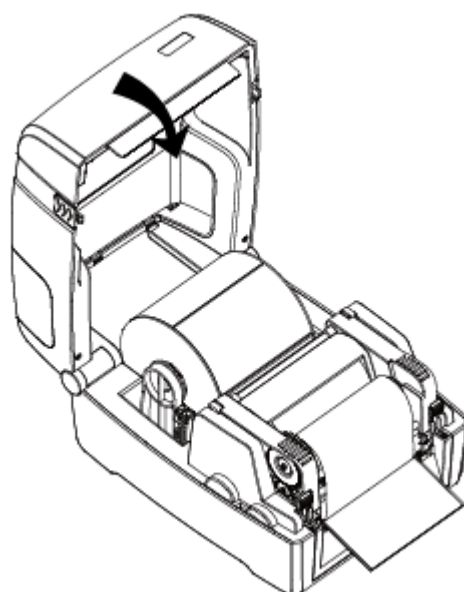
4. Insert the left part of rewind spindle and then the right part.



5. Wind the core 2~3 circles until the ribbon is pulled tightly.

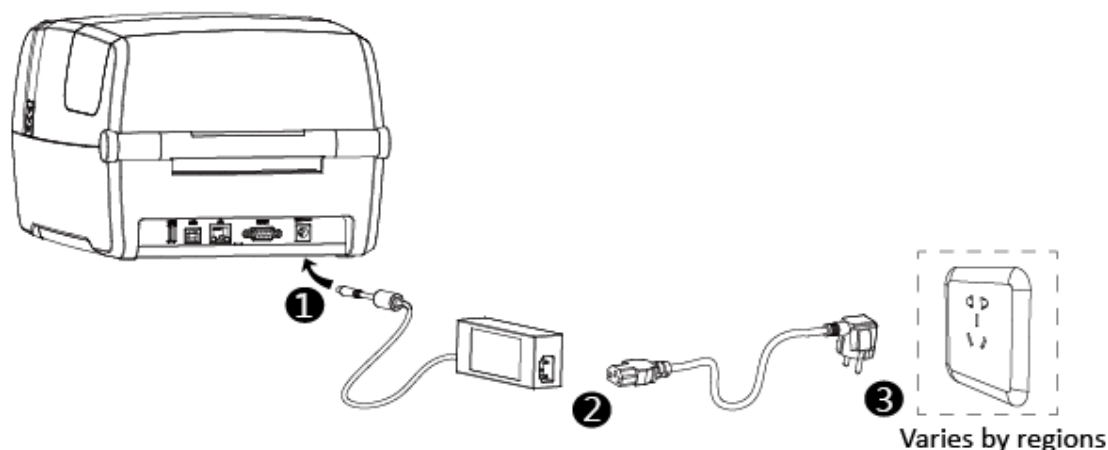


6. Fix the mechanism and close the cover.



3.2 Power Connection

1. Connect the AC adapter to power receptacle.
2. Connect the power cord to AC adapter.
3. Connect the other end of power cord to the outlet.



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 Peripherals Connection

3.3.1 Interface Cable Connection

1. The standard for the printer's interface cable shows as follows:

- USB A-Type cable
- USB B-Type cable
- RS-232C cable
- RJ45 cable

2. Based on your own need, follow the instructions to connect the cable.

- 1) Make sure the printer's power is off.
- 2) Please plug in the cables.
 - Insert the USB A-Type cable into the USB (type A) interface.
 - Insert the USB B-Type cable into the USB (type B) interface.
 - Insert the RS-232C cable into the serial interface.
 - Insert the RJ45 cable into the ethernet interface.

3.3.2 Bluetooth Connection

PDA with Bluetooth interface, laptop and other information terminals can drive the printer. Instructions show as follows:

1. Power on the printer.
2. Primary device searches for outer Bluetooth devices.
3. If there are other Bluetooth devices, select the printer's name.
4. Finish pairing.

If you need more detailed information of pairing methods, please refer to the instructions of Bluetooth device.

After pairing, primary devices with virtual Bluetooth interface (smart phone, tablet, pocket PC, palm, notebook) can drive the printer to print labels through virtual Bluetooth interface.



Note: The original code is 1234.

3.4 Detection

When printing paper, the moveable label sensor is used to detect paper. The label sensor moves differently when using various kinds of paper. If user moves the sensor improperly, paper may not be detected, therefore the printer could not print paper. The following instructions tell users how to use label sensor correctly. Please read it carefully.

3.4.1 Continuous Paper

When printing continuous paper (Figure 1), the sensor shall be aimed at the left triangle below (Figure 2), which is the original position.

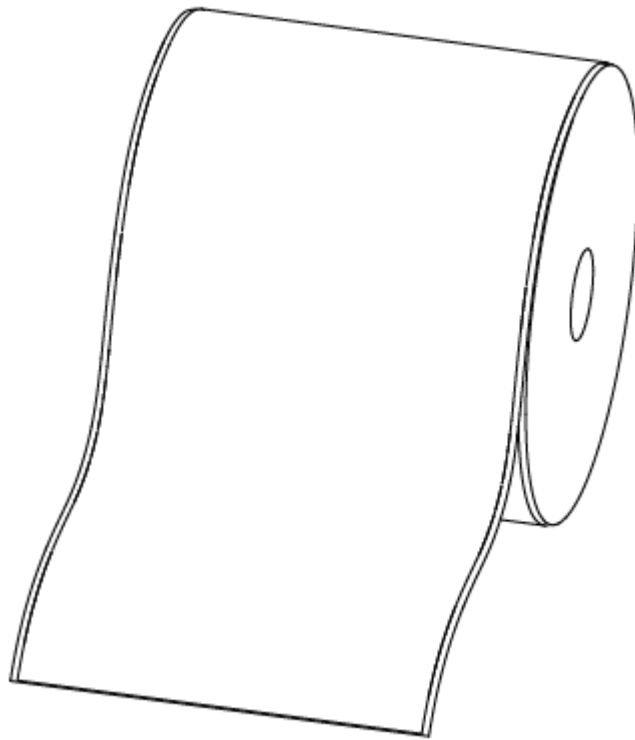


Figure 1 (Continuous Paper)

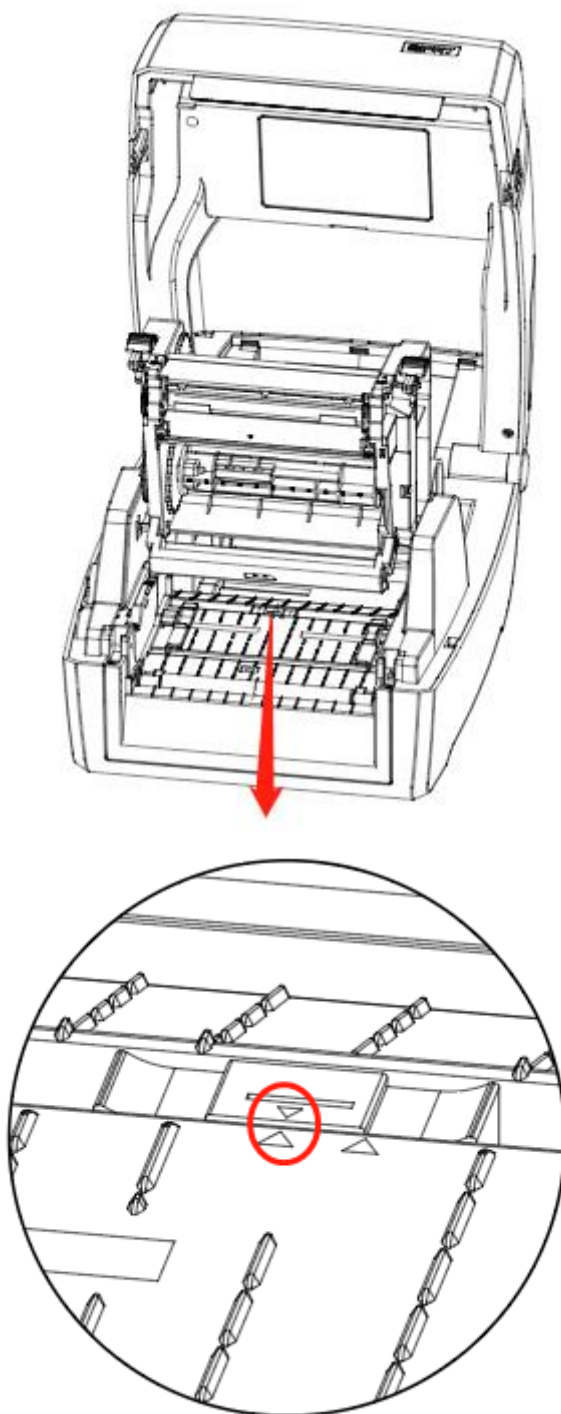


Figure 2 (Left)

3.4.2 Labels

When printing labels (Figure 3) or double-row labels (Figure 4), the sensor shall be aimed at the left triangle below (Figure 5), which is the original position.

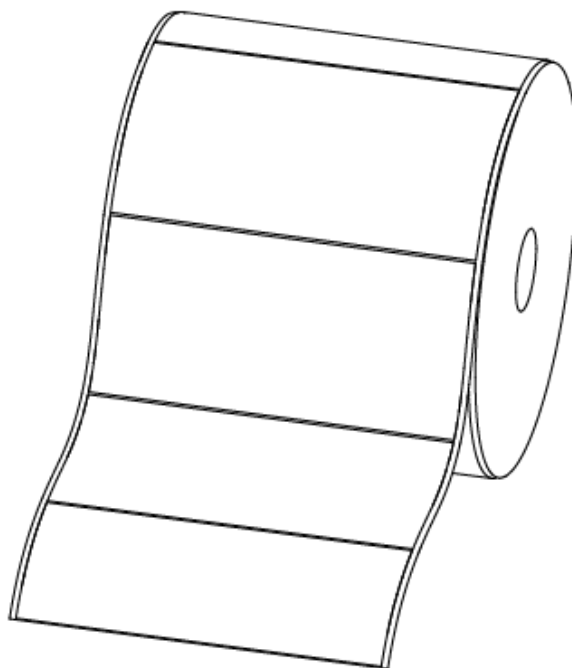


Figure 3 (Labels)

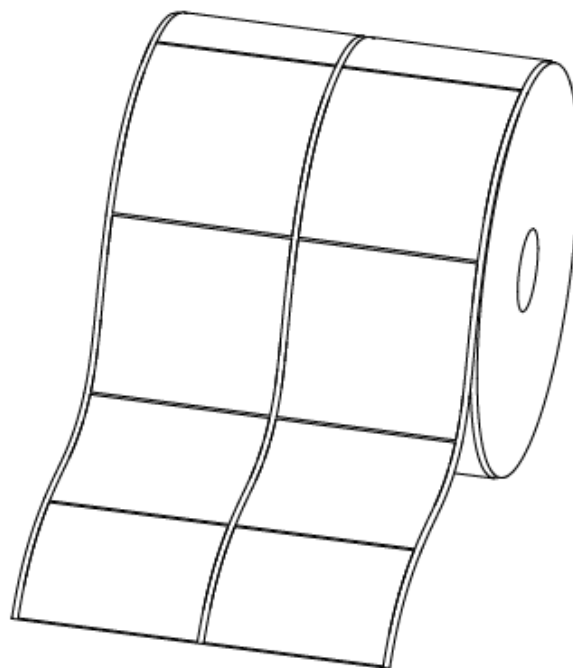


Figure 4 (Double-row Labels)

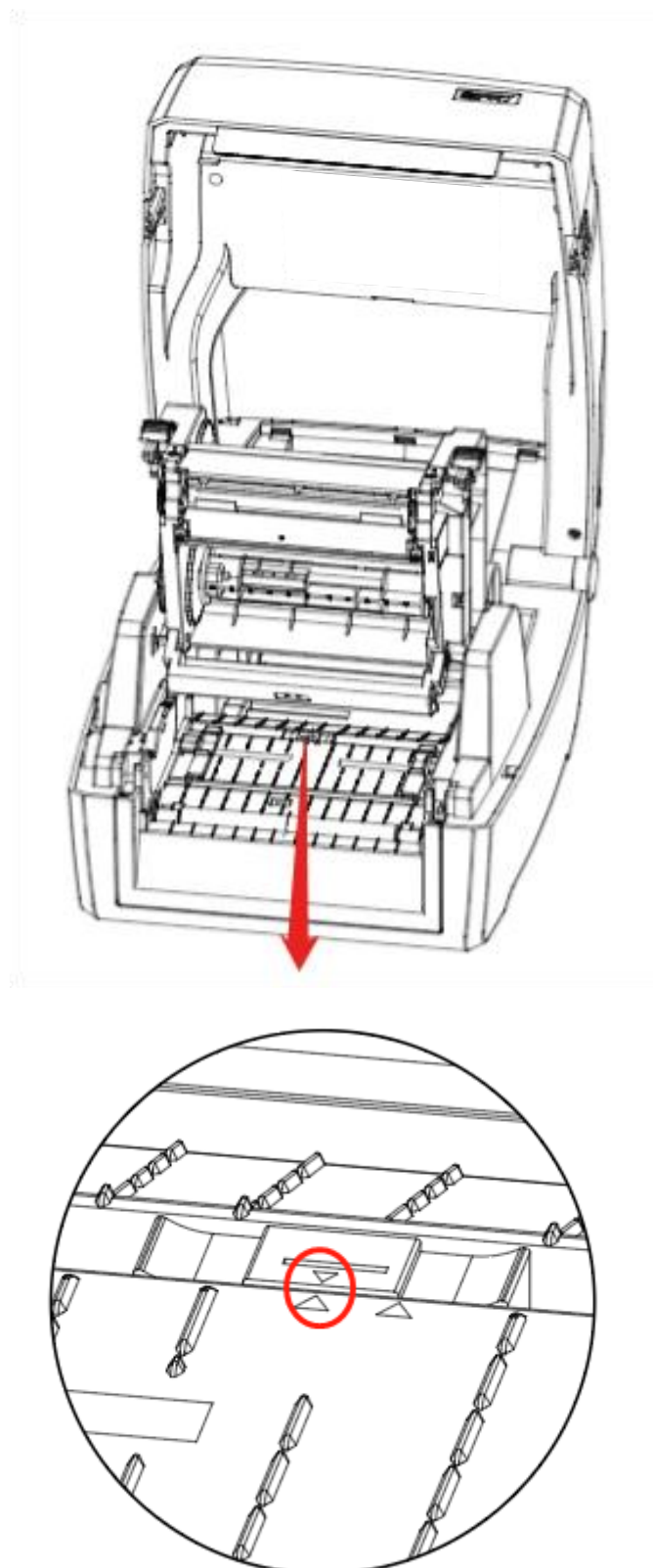


Figure 5 (Left)

3.4.3 Punched Hole Label

When printing punched hole labels, move the sensor until it's aimed at the right triangle below (Figure 6).

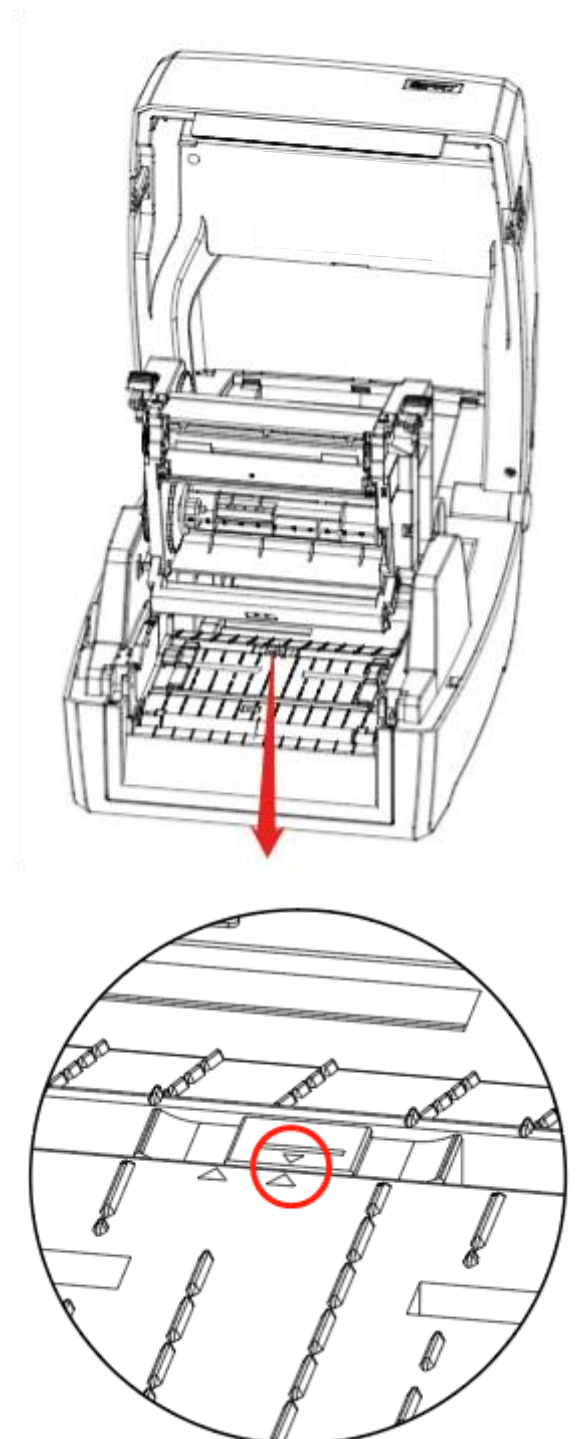


Figure 6 (Right)

3.4.4 Blackmark Paper

When printing blackmark paper (Figure 7), the sensor shall be aimed at the position of black mark (Figure 8).

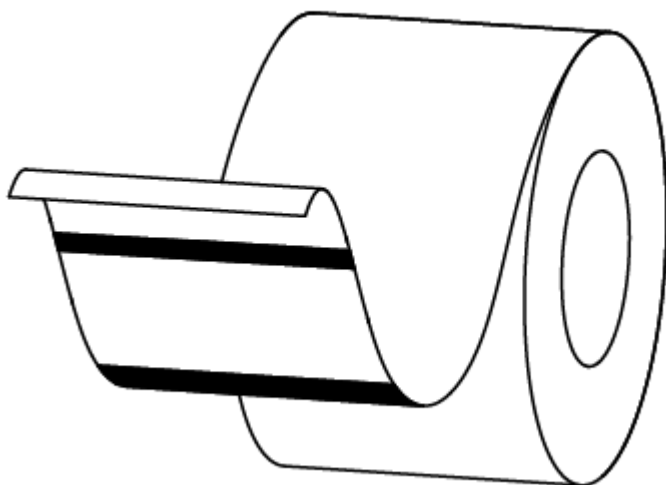


Figure 7 (Blackmark Paper)

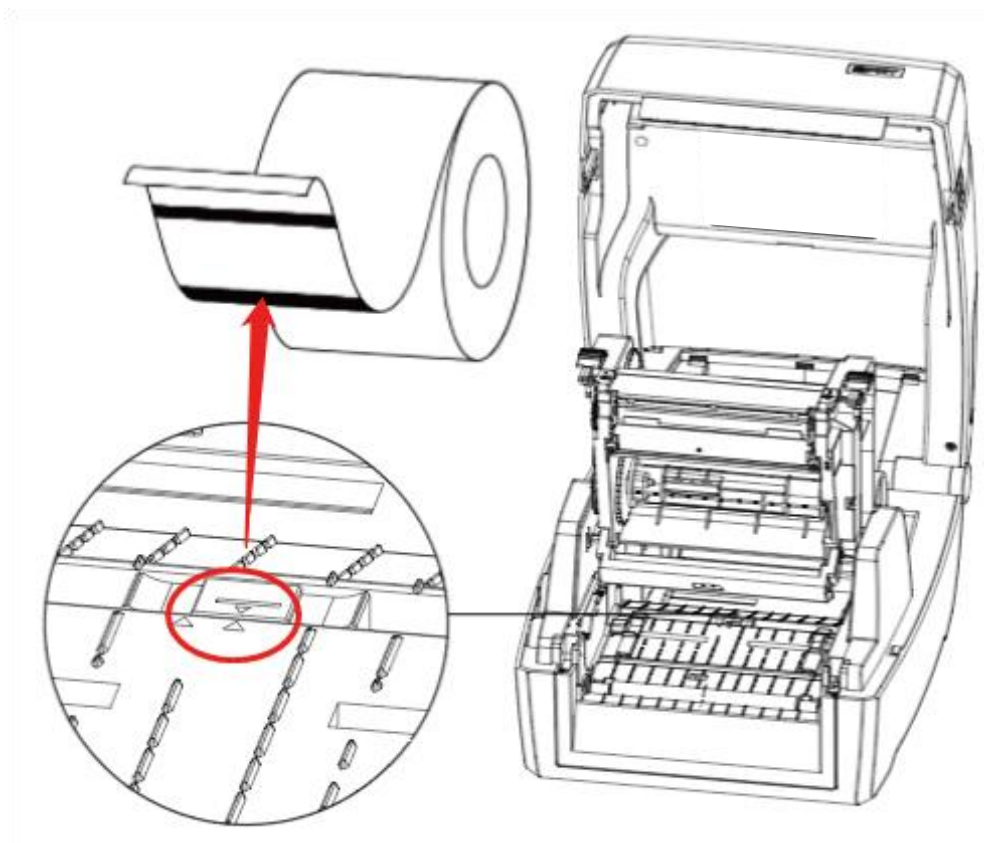


Figure 8 (aimed at blackmark's position)

3.5 Operation Panel

3.5.1 Panel Introduction

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

1.Power Button



Much more detailed information is provided in "3.6.1 Power On/ Power Off".

2.Feed Button



Much more detailed information is provided in "3.6.2 FEED Button".

3.5.2 Indicator Status

1.Power Light

Color	Action	Indicating Status
x	x	The printer is off
Green	On	Normal operation
Green	Slow flash	Dump mode

2.Status Light

Color	Action	Indicating Status
x	x	The printer is off/standby/printing
Red	On	Head up/paper out
Red	Quick flash	Paper jam/label's separation
Orange	On	Ribbon out
Orange	Slow flash	Printing pause
Green	On	Label calibration
Green	Slow flash	Wait on demand
Green	Quick flash	Receiving data

3.Paper Container Light

Action	Indicating Status
On	Paper out/Paper jam/label's separation
Off	Head up/error elimination



Note:

Quick flash → 0.2 second / every cycle

Slow flash → 1 second / every cycle

3.6 Basic Function

3.6.1 Power on/ Power off

- When the printer is off, press the power button once, and printer will power on.
- When the printer is on, press the power button for three seconds. After ringing twice, the printer will power off.

3.6.2 FEED Button

- When the printer is ready, press the feed button, and printer will automatically feed a label under "Label Mode". Press the feed button, and the printer will feed the fixed distance under "Continuous Mode".
- When the printer is printing, press the feed button once and it will stop the printing job. Press the feed button for three seconds and it will cancel the printing job.
- When the printer pauses, press the feed button once and it will continue the printing job. Press the feed button for three seconds and it will cancel the printing job.
- When the printer is in dump mode, press the feed button once, then back to the normal printing mode.
- When the indicator status flashes slowly(green), press the feed button once and printer will print a label.

3.6.3 Quick Calibration

Users must carry out the calibration under the conditions below:

- The first time to use the printer since installation;
- The first time to use the printer since sensor cleaning;
- Reuse the printer when it has not been used for a long time;
- Change a new type of media;
- Printer cannot recognize the mark;
- Huge change of the operating environment;

Calibration method:

- Carry out the calibration manually.

When printer is ready, press the FEED button for 3 seconds until the status indicator (Green) flashes twice. Then release the button, and printer will start to do the calibration. When printer does the calibration under Continuous Media Mode, the calibration is invalid.

- Carry out the calibration by printer utility tool.

Please refer to detailed information in "Chapter 6 Printer Utility Tool Instructions".



Note: After the quick calibration, users could open the printer cover to pull back the learned paper in avoid of paper wasting.

3.6.4 Print Self-test Page

The self-test checks the printer's current settings, status and whether the printer has any problems or not.

1.Printing Manually

- 1) Make sure the roll is loaded properly.
- 2) Make sure the top cover of the printer is closed properly. Then turn on the printer.
- 3) When the printer is ready, press the feed button continuously. As soon as the indicator flashes (green) once, loosen the button. Then the printer starts to print the self-test page.

2.Printing by Windows Driver Program

- 1) Install the Windows Driver program.
- 2) Set the "Interface" as the type you use.
- 3) Use the Windows Driver Program to print out the "Self-test page".
- 4) Please refer to "Chapter 7 Seagull Windows Driver Instructions" for more detailed information.

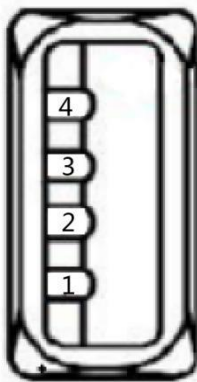
3.Printing by BarTender Ultralite Program

- 1) Install the BarTender Ultralite program.
- 2) Edit a new label and print it.
- 3) Please refer to "Chapter 8 BarTender Ultralite Instructions" for more detailed information.

Chapter 4 Interface

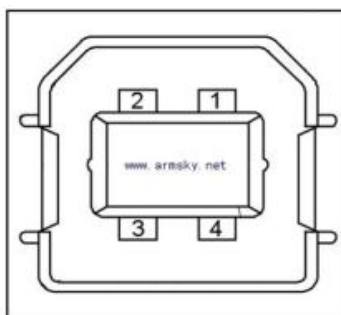
4.1 USB Interface

1.USB (Type A)



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

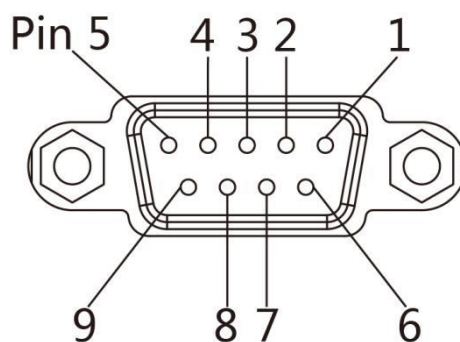
2.USB (Type B)



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

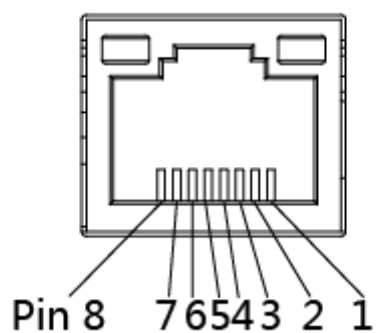
4.2 Other Optional Interfaces

■ Serial Port



PIN	SIGNAL NAME	SIGNAL DIRECTION
1	+5VDC	OUTPUT
2	RXD	OUTPUT
3	TXD	INPUT
4	DTR	INPUT
5	GND	GROUNDING
6	DSR	OUTPUT
7	RTS	INPUT
8	CTS	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. So 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 Media Sensor

Debris or dirt on the paper sensor can cause a miss-read or unstable detection of the label gap. Clean with a cotton bud dampened with alcohol.

5.2 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.

5.3 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 application program in CD. E.g.: HPRTUtility.exe

6.2 Usage



Note: The screen may vary slightly by different operating systems and models. Take printer Prime as example.

1. Install "HPRT Utility.exe", then open it.

HPRT Utility V1.0.0.0

Settings Fonts Storage Function Test Command Test Firmware System

Interface: USB (selected) Config

Printer Information:

- Version:
- Serial Number:
- Cutting Counter:
- Mileage: m

Get Printer Information

Printer Status:

Get Status

Common ZPL DPL RS-232 Bluetooth Ethernet WIFI

Settings:

- Ribbon Mode:
- After Printed:
- After Power On:
- After TPH Close:
- Protocol:
- Paper Type:
- Sensor Select:
- Buzzer Volume:
- Maximum Length: mm
- Tear Off: -120 ~ +120 dots
- Print Speed: ips
- Density: 0 to 30

Load Save Set Get

RTC Setting

2. Click "Settings".

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

V1.0.0.0

Settings Fonts Storage Function Test Command Test Firmware System

Interface

USB (selected) Config

Serial Number:

Cutting Counter:

Mileage: m

Get Printer Information

Printer Status

Get Status

Common ZPL DPL RS-232 Bluetooth Ethernet WIFI

Ribbon Mode:

After Printed:

After Power On:

After TPH Close:

Protocol:

Paper Type:

Sensor Select:

Buzzer Volume:

Maximum Length: mm

Tear Off: -120 ~ +120 dots

Print Speed: ips

Density: 0 to 30

Load Save Set Get

RTC Setting

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

The screenshot displays the CST V1.0.0.0 software interface. The top navigation bar includes icons for Settings, Fonts, Storage, Function Test, Command Test, Firmware, and System. The Settings menu is active, showing a sidebar with 'Interface' (USB selected) and 'Printer Information' (highlighted with a red box). The 'Printer Information' section contains the following fields:

- Version: V10.02.12
- Serial Number: Prime019430028
- Cutting Counter: 136
- Mileage: 218.14 m

Below these fields is a 'Get Printer Information' button. The main area of the Settings window shows various printer configuration options under the 'Common' tab, including Ribbon Mode, After Printed, After Power On, After TPH Close, Protocol, Paper Type, Sensor Select, Buzzer Volume, Maximum Length, Tear Off, Print Speed, and Density. At the bottom, there are buttons for Load, Save, Set, and Get, along with an RTC Setting section.

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

V1.0.0.0

Settings Fonts Storage Function Test Command Test Firmware System

Interface: USB Config

Printer Information

Version: V10.02.12

Serial Number: Prime019430028

Cutting Counter: 136

Mileage: 218.14 m

Get Printer Information

Printer Status

Idle!

Get Status

Common ZPL DPL RS-232 Bluetooth Ethernet WIFI

Ribbon Mode: [Dropdown]

After Printed: [Dropdown]

After Power On: [Dropdown]

After TPH Close: [Dropdown]

Protocol: [Dropdown]

Paper Type: [Dropdown]

Sensor Select: [Dropdown]

Buzzer Volume: [Dropdown]

Maximum Length: [Input] mm

Tear Off: [Input] -120 ~ +120 dots

Print Speed: [Dropdown] ips

Density: [Input] 0 to 30

Load Save Set Get

RTC Setting

(4) Click “Common”. In this menu, user can set up the protocol, media sensor, speed, density and so on.

The screenshot displays the CST V1.0.0.0 software interface. The top navigation bar includes icons for Settings (selected), Fonts, Storage, Function Test, Command Test, Firmware, and System. The main window is divided into three sections:

- Left Panel:**
 - Interface:** A dropdown menu set to 'USB' with a 'Config' button next to it.
 - Printer Information:** Fields for Version (V10.02.12), Serial Number (Prime019430028), Cutting Counter (136), and Mileage (218.14 m). A 'Get Printer Information' button is located below these fields.
 - Printer Status:** A text area showing 'Idle!'. A 'Get Status' button is located below it.
- Main Content Area:**
 - Tabs:** Common (selected), ZPL, DPL, RS-232, Bluetooth, Ethernet, and WIFI.
 - Settings:**
 - Ribbon Mode: OFF
 - After Printed: Tear off
 - After Power On: None
 - After TPH Close: None
 - Protocol: AUTO
 - Paper Type: Gap
 - Sensor Select: Transmissive
 - Buzzer Volume: Low
 - Maximum Length: 500 mm
 - Tear Off: 0 -120 ~ +120 dots
 - Print Speed: 4 ips
 - Density: 10 0 to 30
- Bottom Panel:**
 - Buttons: Load, Save, Set, and Get (highlighted in blue).
 - RTC Setting: A button located below the main settings area.

(5) Click “RS-232”, then set up the baud rate, data bits, parity and flow control.

The screenshot displays the CST V1.0.0.0 software interface. At the top, there is a navigation bar with icons for Settings, Fonts, Storage, Function Test, Command Test, Firmware, and System. The 'Settings' icon is selected. Below the navigation bar, the 'Interface' section is active, showing a dropdown menu set to 'USB' and a 'Config' button. The 'Printer Information' section includes fields for Version (V10.02.12), Serial Number (Prime019430028), Cutting Counter (136), and Mileage (218.14 m), along with a 'Get Printer Information' button. The 'Printer Status' section shows 'Idle!' and a 'Get Status' button. The 'Common' tab is selected, and the 'RS-232' sub-tab is active. The RS-232 configuration fields are: Baud Rate (115200), Data Bits (8), Parity (None), and Flow Control (RTS/CTS). At the bottom, there are buttons for 'Load', 'Save', 'Set', and 'Get', and an 'RTC Setting' button.

(6) Click “Bluetooth”, then set up the Bluetooth name and password. Click “Get” to gain the values of Mac address.

The screenshot displays the CST V1.0.0.0 software interface. At the top, there is a navigation bar with icons for Settings, Fonts, Storage, Function Test, Command Test, Firmware, and System. The 'Settings' icon is selected. Below the navigation bar, there are tabs for Common, ZPL, DPL, RS-232, Bluetooth, Ethernet, and WIFI. The 'Bluetooth' tab is active. The main area contains fields for Bluetooth Name (set to 'Prime', with a note '<=16 characters'), Password (set to '0000', with a note '(4 characters)'), and Mac address (displayed as six empty boxes separated by colons). On the left side, there is a 'Printer Information' section with fields for Version (V10.02.12), Serial Number (Prime019430028), Cutting Counter (136), and Mileage (218.14 m), along with a 'Get Printer Information' button. Below that is a 'Printer Status' section with a text area showing 'Idle!' and a 'Get Status' button. At the bottom, there are buttons for 'Load', 'Save', 'Set', and 'Get', and an 'RTC Setting' button.

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

The screenshot displays the CST V1.0.0.0 software interface. At the top, there is a navigation bar with icons for Settings, Fonts, Storage, Function Test, Command Test, Firmware, and System. The 'Settings' icon is selected. Below the navigation bar, the 'Interface' section is active, showing a dropdown menu set to 'USB' and a 'Config' button. The 'Printer Information' section displays fields for Version (V10.02.12), Serial Number (Prime019430028), Cutting Counter (136), and Mileage (218.14 m), along with a 'Get Printer Information' button. The 'Printer Status' section shows 'Idle!' and a 'Get Status' button. The main configuration area has tabs for Common, ZPL, DPL, RS-232, Bluetooth, Ethernet, and WIFI. The 'Ethernet' tab is selected, showing DHCP set to 'OFF', IP Address (10.0.3.22), Subnet Mask (255.255.255.0), Default Gateway (10.0.3.1), and Mac address (AC:DE:48:FF:FF:FF). At the bottom, there are buttons for Load, Save, Set, and Get, and an 'RTC Setting' button.

V1.0.0.0

Settings Fonts Storage Function Test Command Test Firmware System

Interface

USB Config

Printer Information

Version: V10.02.12

Serial Number: Prime019430028

Cutting Counter: 136

Mileage: 218.14 m

Get Printer Information

Printer Status

Idle!

Get Status

Common ZPL DPL RS-232 Bluetooth Ethernet WIFI

DHCP: OFF

IP Address: 10 0 3 22

Subnet Mask: 255 255 255 0

Default Gateway: 10 0 3 1

Mac address: AC : DE : 48 : FF : FF : FF

Load Save Set Get

RTC Setting

(8) Click “WIFI”, then set up the name, password and so on.

The screenshot displays the TP-48 printer's configuration interface, version V1.0.0.0. The interface is divided into several sections:

- Top Navigation Bar:** Contains icons and labels for Settings, Fonts, Storage, Function Test, Command Test, Firmware, and System. The 'Settings' icon is currently selected.
- Left Panel:**
 - Interface:** A dropdown menu set to 'USB' with a 'Config' button next to it.
 - Printer Information:** Fields for Version (V10.02.12), Serial Number (Prime019430028), Cutting Counter (136), and Mileage (218.14 m). A 'Get Printer Information' button is located below these fields.
 - Printer Status:** A box showing 'Idle!' with a 'Get Status' button below it.
- Main Content Area:** Features tabs for Common, ZPL, DPL, RS-232, Bluetooth, Ethernet, and WIFI. The 'WIFI' tab is active.
 - SSID:** A text field containing 'Prime'.
 - Password:** A text field containing '12345678' with a note '(>=8 characters)'.
 - Work Mode:** A dropdown menu set to 'AP'.
 - DHCP:** A dropdown menu set to 'ON'.
 - IP Address:** Four individual input boxes for the IP address.
 - Subnet Mask:** Four individual input boxes for the subnet mask.
 - Default Gateway:** Four individual input boxes for the default gateway.
 - Mac address:** Six individual input boxes for the MAC address, separated by colons.
- Bottom Bar:** Contains buttons for 'Load', 'Save', 'Set', and 'Get', along with an 'RTC Setting' button.

**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.

The screenshot displays the CST V1.0.0.0 software interface. The top menu bar includes icons for Settings, Fonts, Storage, Function Test, Command Test, Firmware, and System. The Settings tab is active, showing a left sidebar with 'Interface' (USB selected), 'Printer Information', and 'Printer Status'. The main area is divided into tabs: Common, ZPL, DPL, RS-232, Bluetooth, Ethernet, and WIFI. The WIFI tab is selected, showing fields for SSID (Prime), Password (12345678), Work Mode (AP), DHCP (ON), IP Address, Subnet Mask, Default Gateway, and Mac address. At the bottom, there are buttons for Load, Save, Set, and Get. Red arrows labeled ① and ② point to the Set and Get buttons respectively. A 'Get Printer Information' button is also visible in the Printer Information section.

3. Click "Storage" to print image.

Download File

File Type: Magnification:

File Name: ...

Free space: 119,401,472B; Uses space 286,790,656B.

Graphics	Label Form	Auto Label Form
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="List All Graphics"/>	<input type="button" value="List All Forms"/>	<input type="button" value="List Auto Form"/>
<input type="button" value="Print Selected Graphic"/>	<input type="button" value="Print Selected Form"/>	<input type="button" value="Print Auto Form"/>
<input type="button" value="Delete Selected Graphic"/>	<input type="button" value="Delete Selected Form"/>	<input type="button" value="Delete Auto Form"/>
<input type="button" value="Delete All Graphics"/>	<input type="button" value="Delete All Forms"/>	<input type="button" value="Enable Auto Form"/>

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

Download File

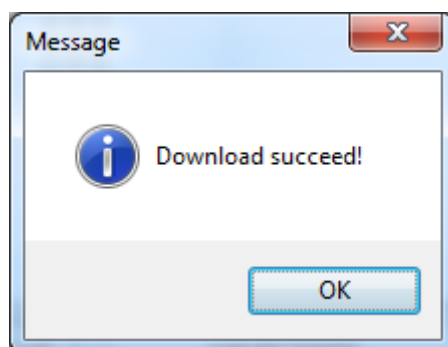
File Type: Magnification:

File Name: ...

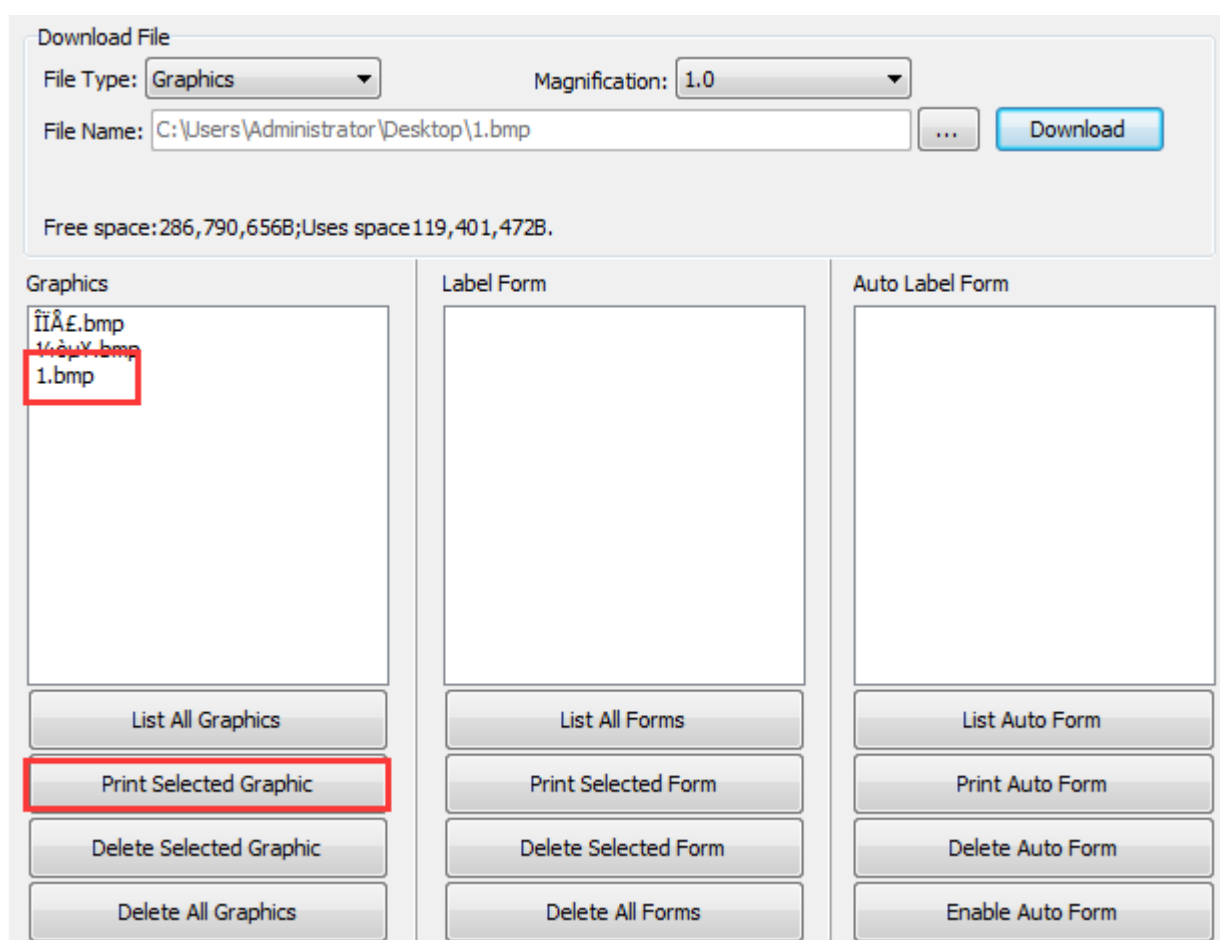
Free space: 119,401,472B; Uses space 286,790,656B.

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.

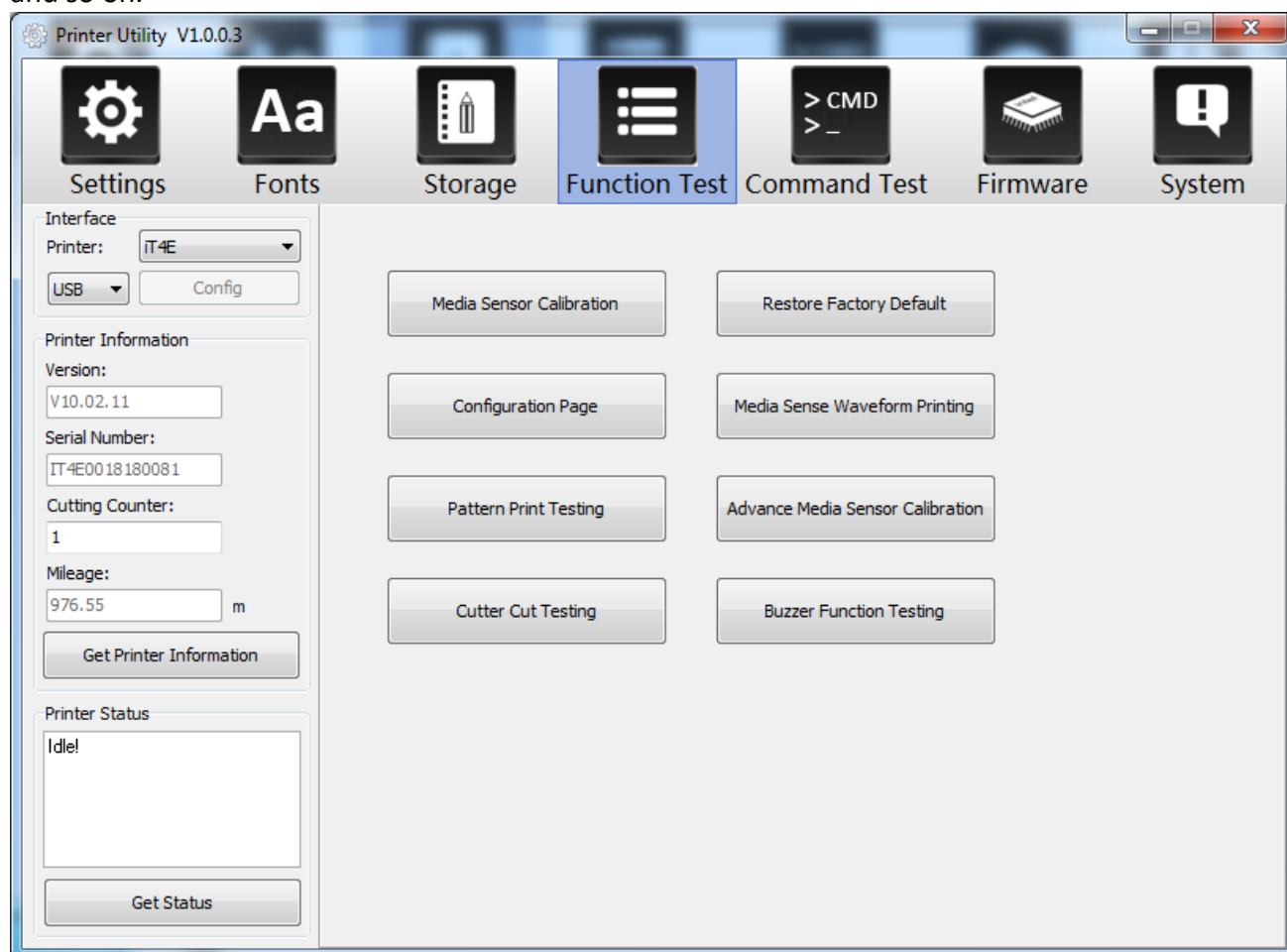
The screenshot shows a 'Download File' dialog box. At the top, there is a 'File Type' dropdown set to 'Graphics' and a 'Magnification' dropdown menu which is currently open, showing options 1.0, 1.5, 2.0, 2.5, and 3.0. The 'File Name' field contains 'C:\Users\Administrator\Desktop\1.bmp'. Below the file name, it shows 'Free space: 286,790,656B; Uses space 119,401,472B.'. To the right of the magnification dropdown are three buttons: an ellipsis button, a 'Download' button, and a disabled button. Below the dialog box, there are three columns: 'Graphics', 'Label Form', and 'Auto Label Form'. Each column has a list of items (or forms) and a set of buttons: 'List All...', 'Print Selected...', 'Delete Selected...', and 'Delete All...' (or 'Enable Auto Form' for the last column).

Graphics	Label Form	Auto Label Form
11&E.bmp ¼&µ¥.bmp 1.bmp		
List All Graphics	List All Forms	List Auto Form
Print Selected Graphic	Print Selected Form	Print Auto Form
Delete Selected Graphic	Delete Selected Form	Delete Auto Form
Delete All Graphics	Delete All Forms	Enable Auto Form

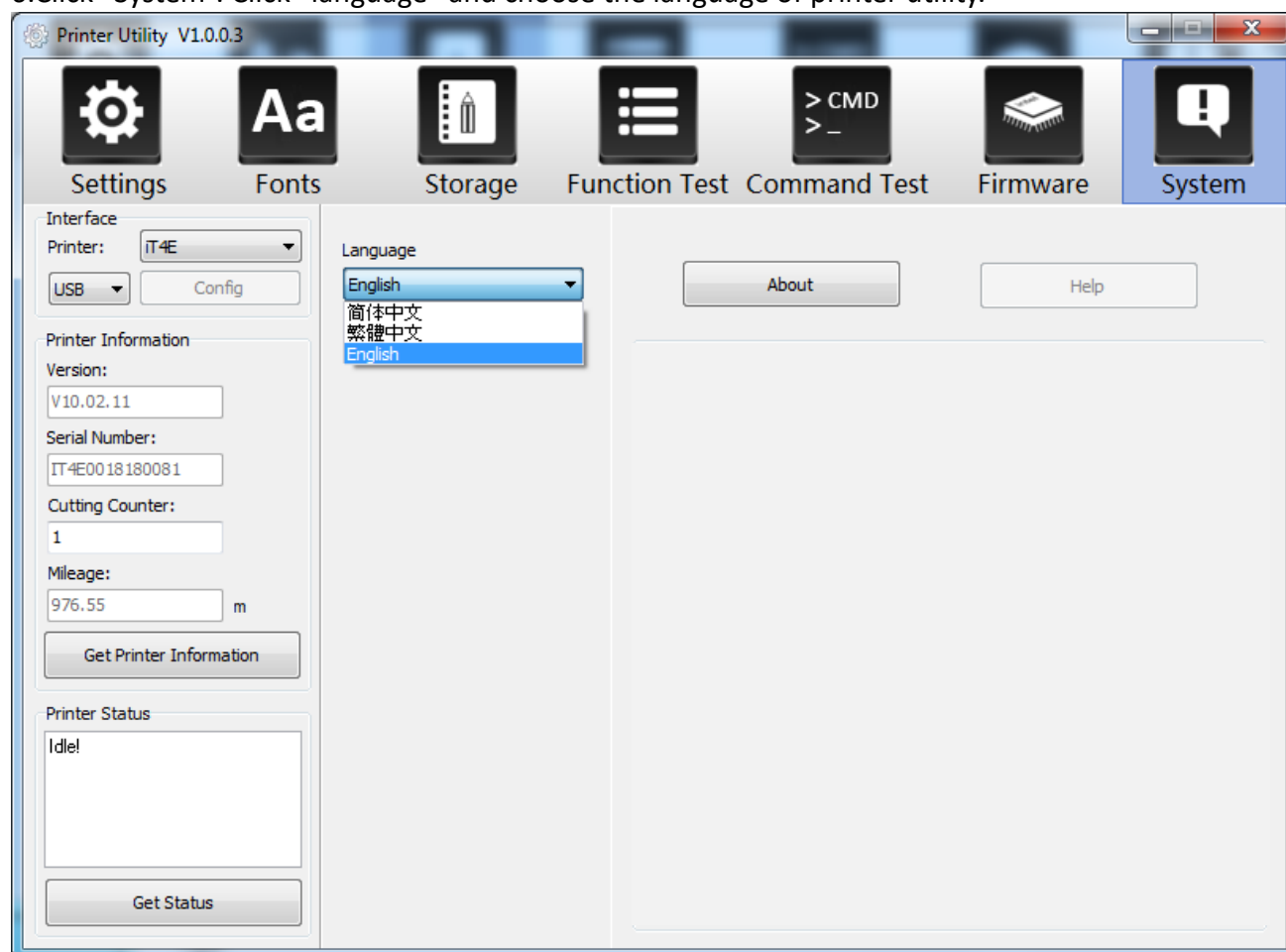
(3) Select the downloaded font file, enter the print content in the text box, and click "Print Text".

[illegible]

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:

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

7.2 Installation Preparation

Download Seagull Windows Driver application program in CD.

7.3 Installation



Note:

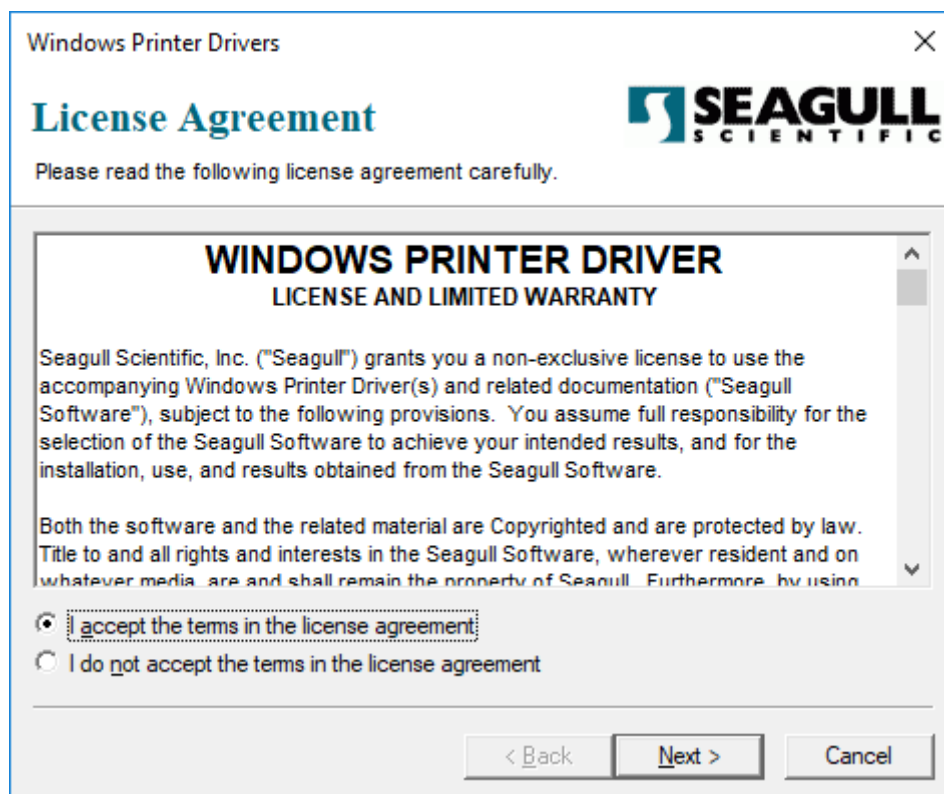
- Under different operating systems, the screen may be slightly different. Take Windows 10 as example.
- Take printer Prime as example.
- To avoid the prevention, recommend to close the security software before installation.

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

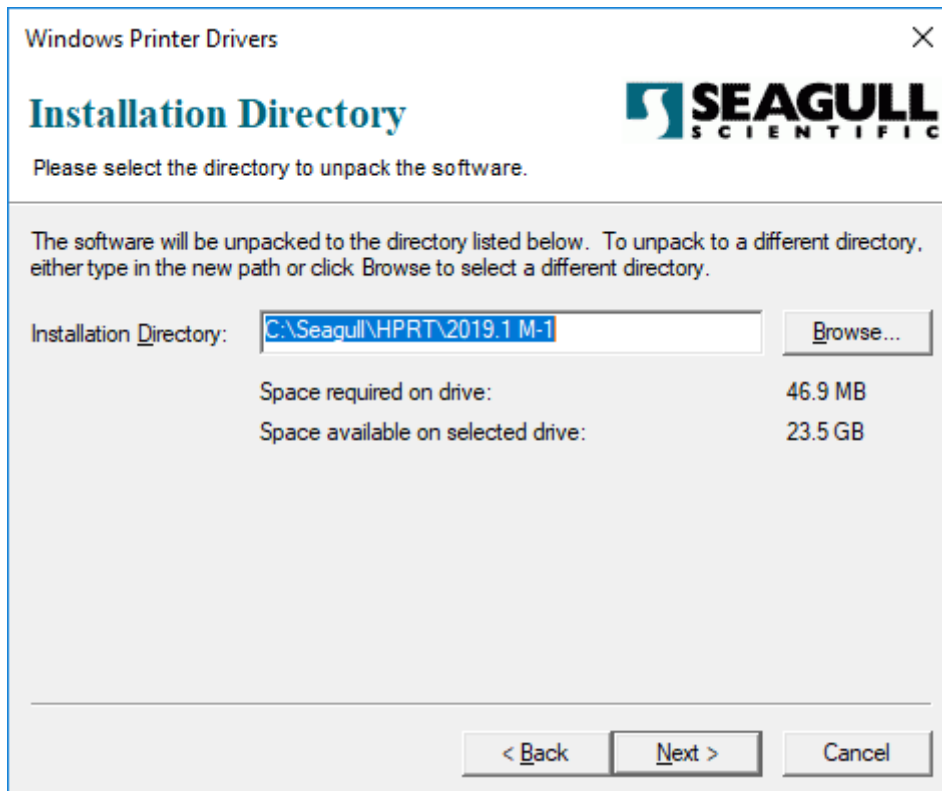
2. Turn on the printer and check if it is connected to computer successfully.

3. Double click Seagull Windows Driver .

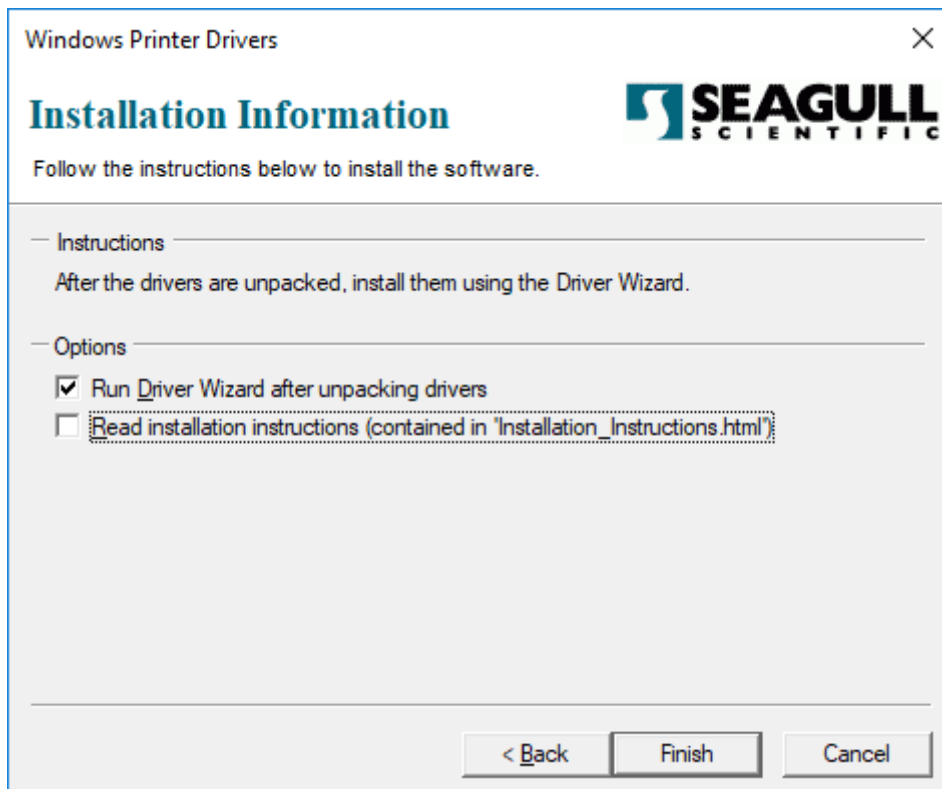
4. Read and agree the license agreement. Then click "Next".



5. Choose the installation directory, then click "Next".



6. Click "Finish".

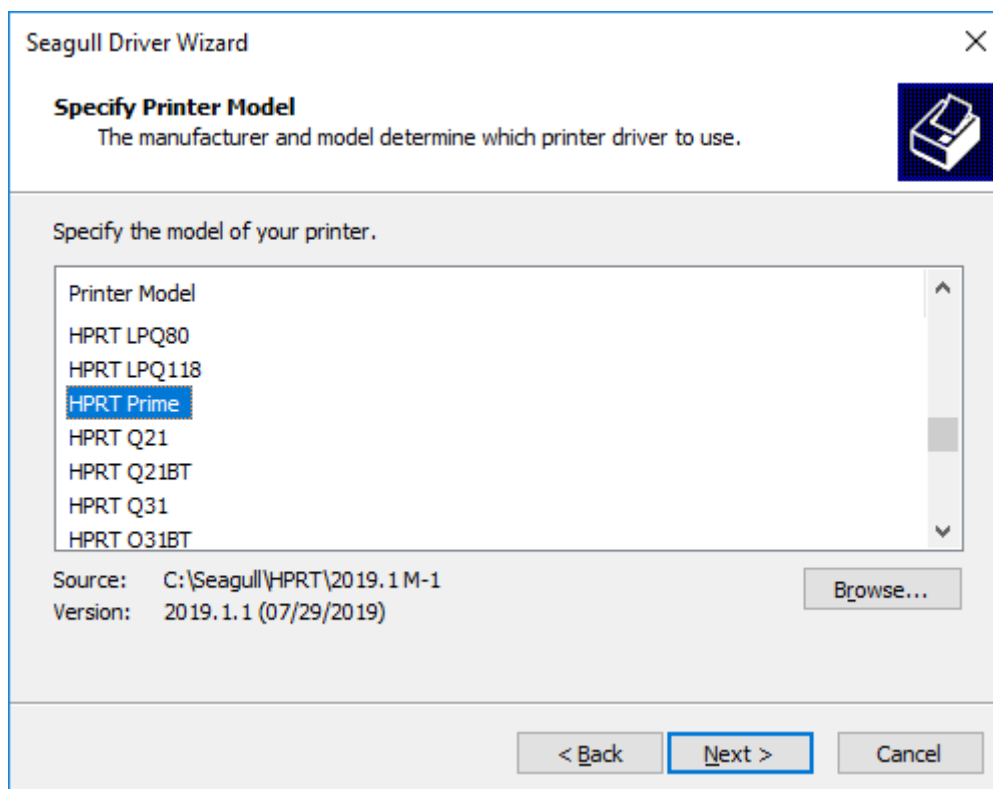


7. Choose "Install printer drivers", then click "Next".

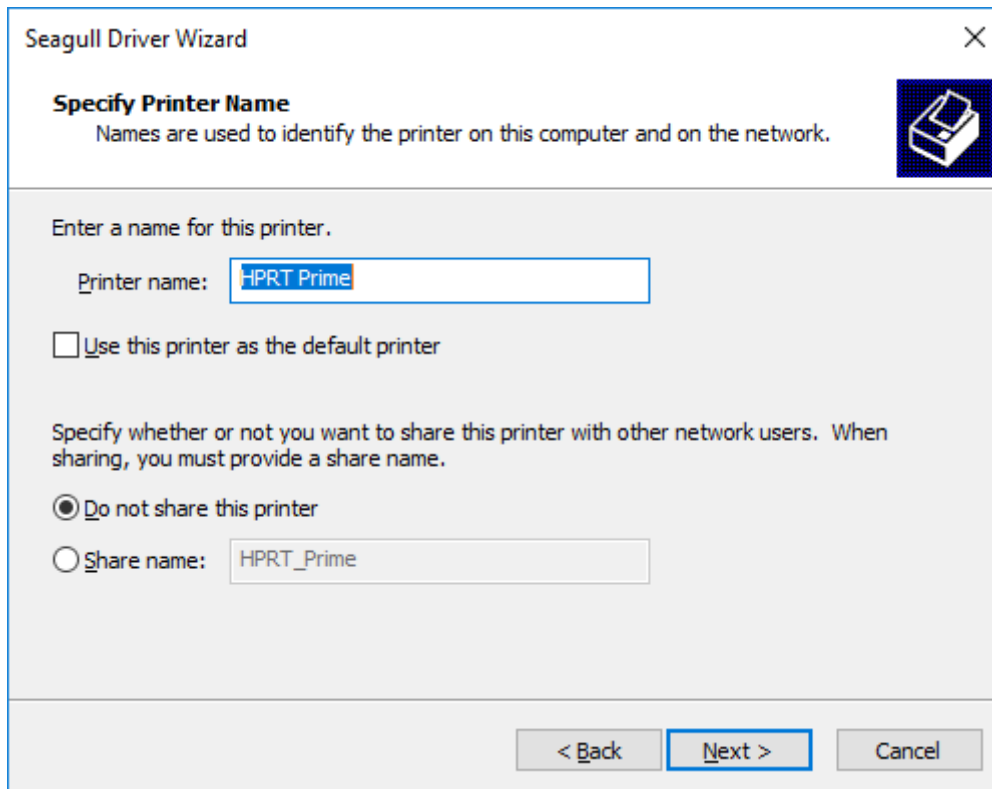


Note: If you have connected the printer to computer, it will detect and install the driver automatically. (e.g.: USB port)

8. Choose "Specify Printer Model", then click "Next".

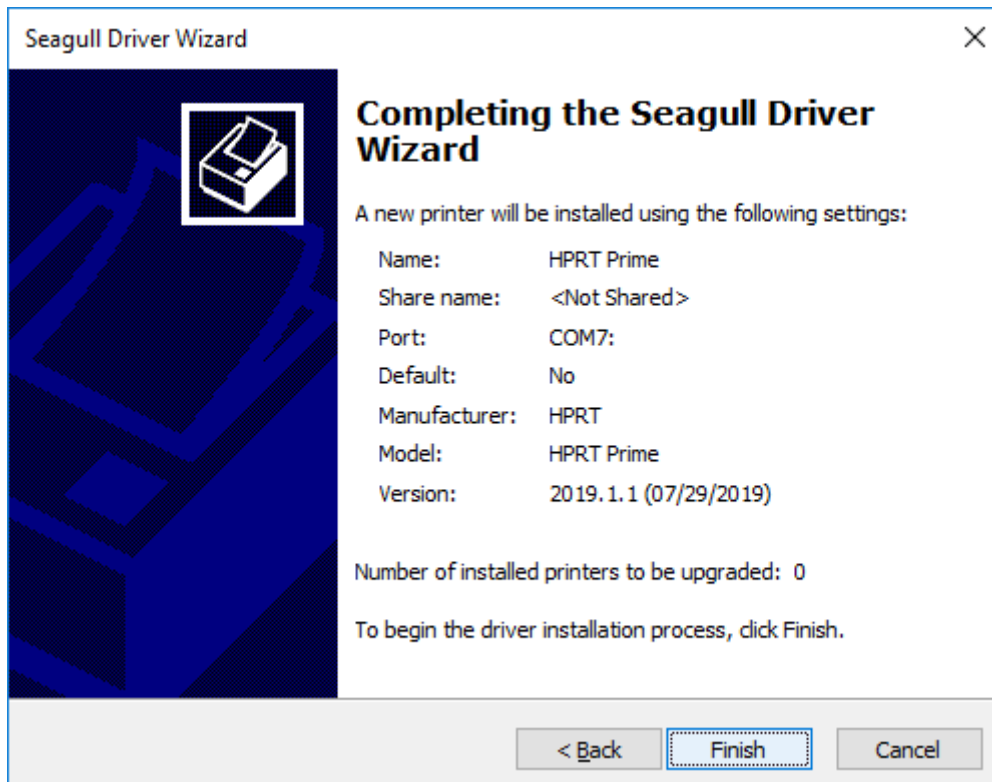


9. Enter a name for this printer, then click "Next".



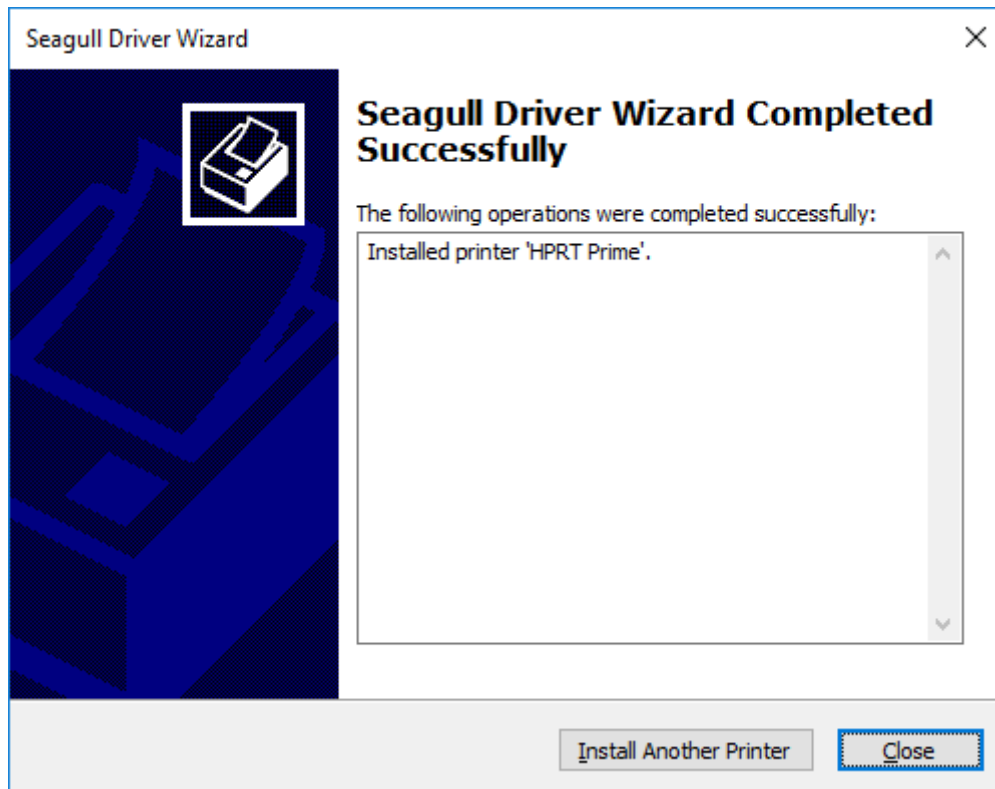
The screenshot shows the 'Specify Printer Name' step of the Seagull Driver Wizard. The window title is 'Seagull Driver Wizard'. Below the title bar, there's a printer icon. The main text says 'Specify Printer Name' and 'Names are used to identify the printer on this computer and on the network.' Below this, it says 'Enter a name for this printer.' followed by a text box labeled 'Printer name:' containing 'HPRT Prime'. There is an unchecked checkbox for 'Use this printer as the default printer'. Below that, it says 'Specify whether or not you want to share this printer with other network users. When sharing, you must provide a share name.' There are two radio buttons: 'Do not share this printer' (which is selected) and 'Share name:' followed by a text box containing 'HPRT_Prime'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

10. Click "Finish".

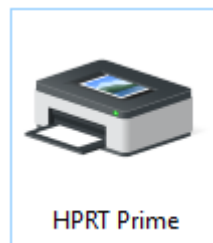


The screenshot shows the 'Completing the Seagull Driver Wizard' step. The window title is 'Seagull Driver Wizard'. On the left, there's a large printer icon. The main text says 'Completing the Seagull Driver Wizard'. Below this, it says 'A new printer will be installed using the following settings:'. There is a list of settings: Name: HPRT Prime, Share name: <Not Shared>, Port: COM7, Default: No, Manufacturer: HPRT, Model: HPRT Prime, Version: 2019.1.1 (07/29/2019). Below the list, it says 'Number of installed printers to be upgraded: 0'. At the bottom, it says 'To begin the driver installation process, click Finish.' There are three buttons at the bottom: '< Back', 'Finish', and 'Cancel'.

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



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



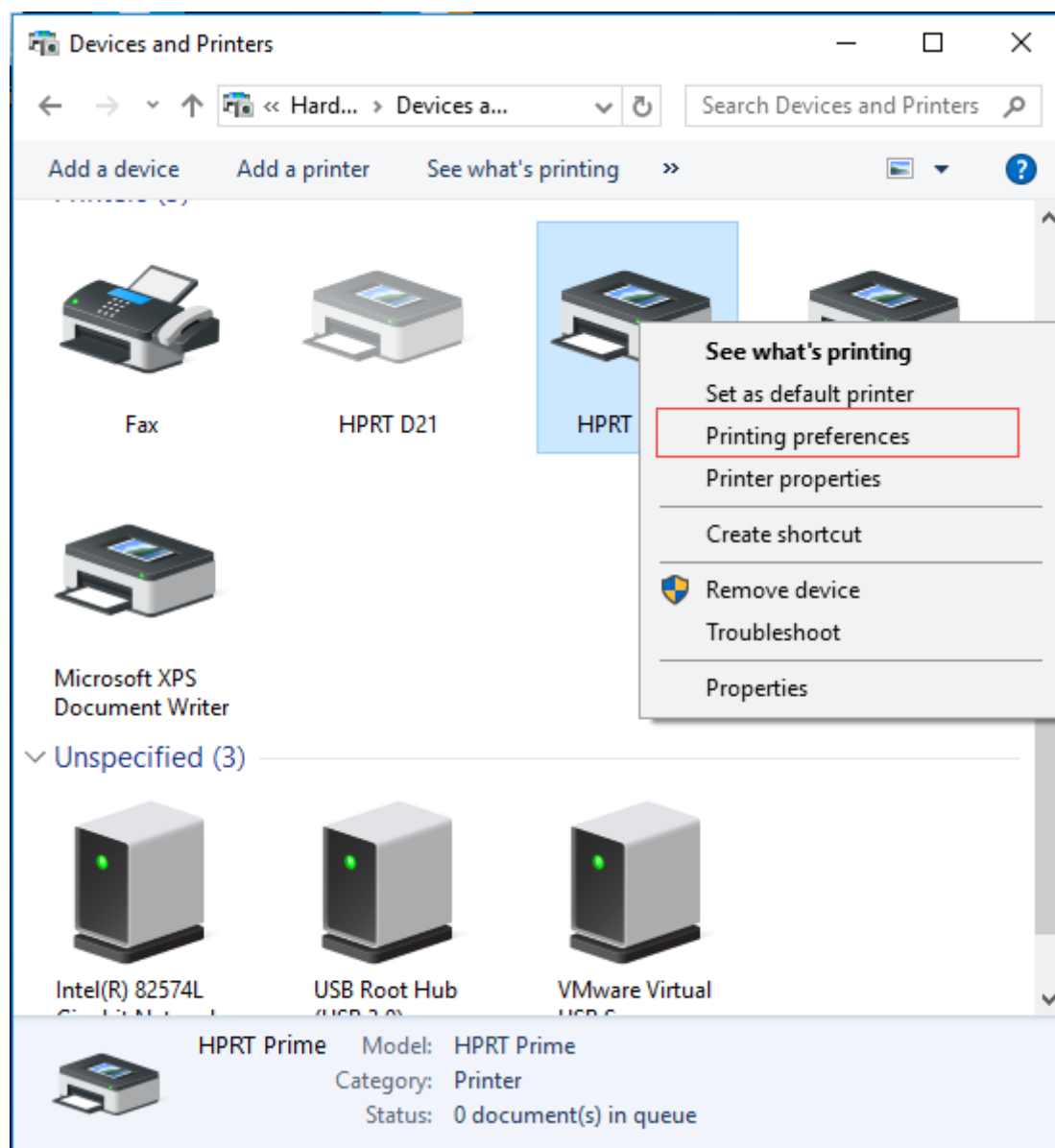
Note:

- If you have already installed the driver (No matter what kind of ports), it will generate a USB port automatically when connecting the printer to computer.
- Any problems exist, please use our utility tool in CD.

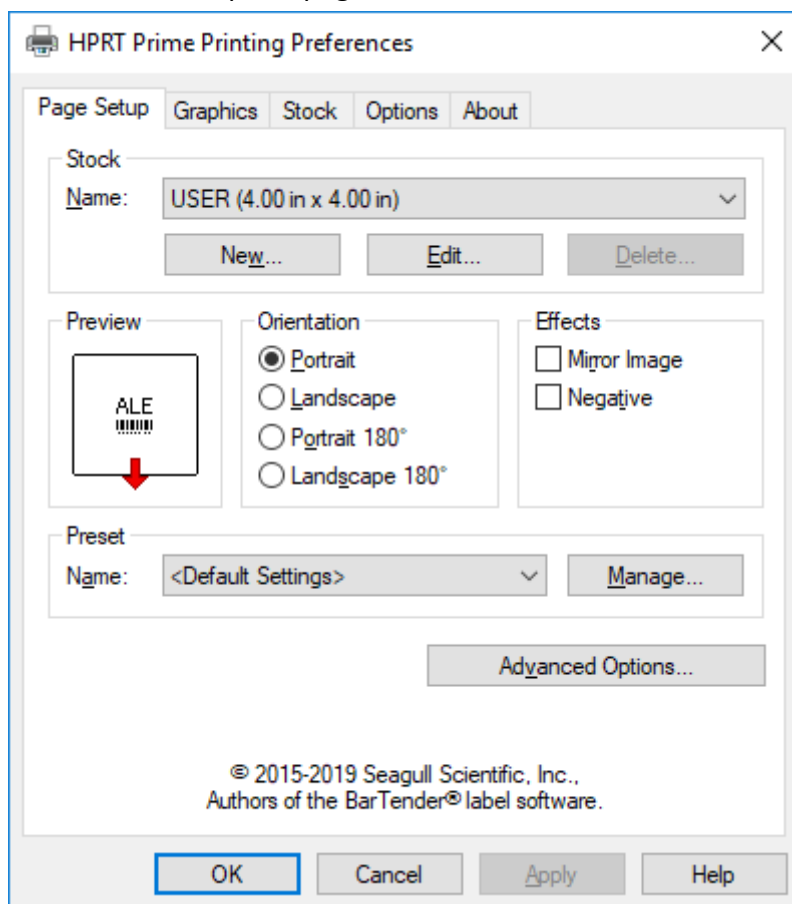
7.4 Usage

7.4.1 Printing Preferences

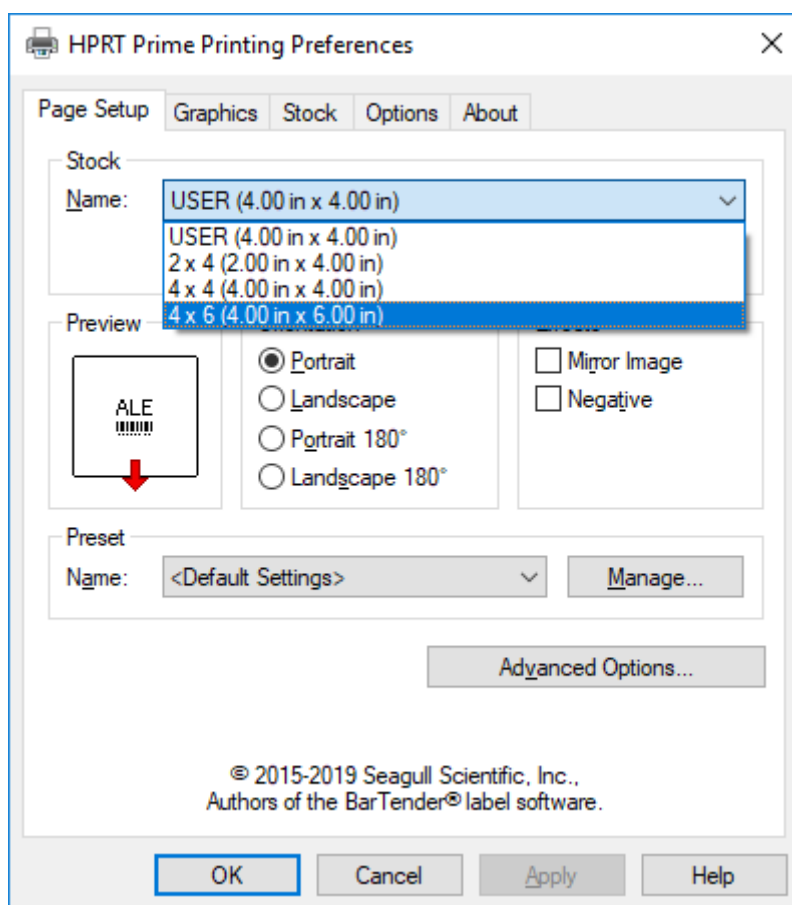
1. Click “Start” → “Devices and Printers”. Right click the icon and choose “Printing preferences”.



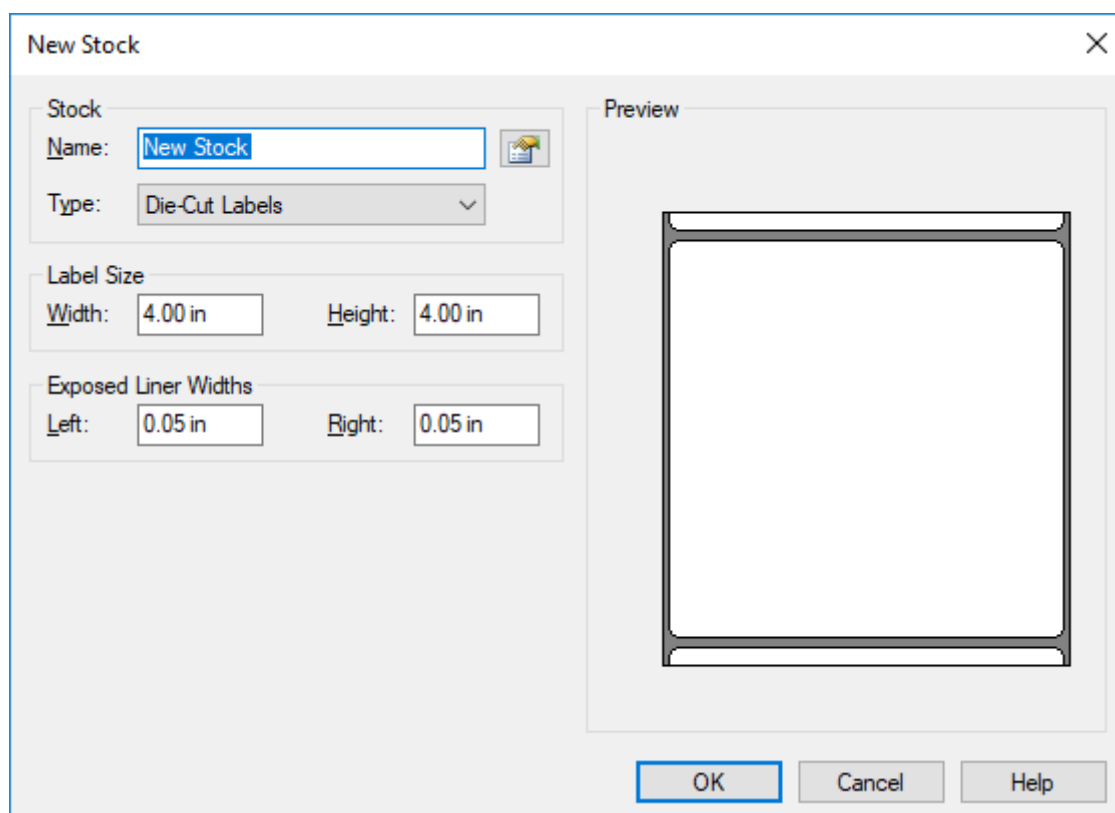
2. According to different needs, set up the page.



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



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



The "New Stock" dialog box is used to configure a new stock. It features a "Stock" section with a "Name" field (containing "New Stock") and a "Type" dropdown menu (set to "Die-Cut Labels"). Below this is a "Label Size" section with "Width" and "Height" fields (both set to "4.00 in"). The "Exposed Liner Widths" section includes "Left" and "Right" fields (both set to "0.05 in"). A "Preview" section on the right shows a visual representation of the stock with a thick border. At the bottom are "OK", "Cancel", and "Help" buttons.

Stock	
Name:	New Stock
Type:	Die-Cut Labels

Label Size	
Width:	4.00 in
Height:	4.00 in

Exposed Liner Widths	
Left:	0.05 in
Right:	0.05 in


Preview


OK Cancel Help

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

New Stock

Stock

Name: 

Type: 

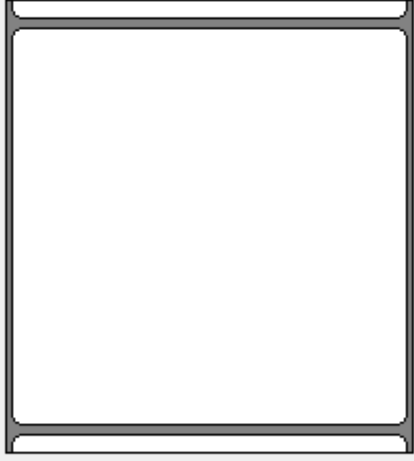
Label Size

Width: Height:

Exposed Liner Widths

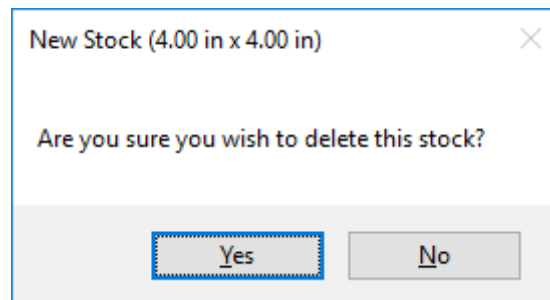
Left: Right:

Preview

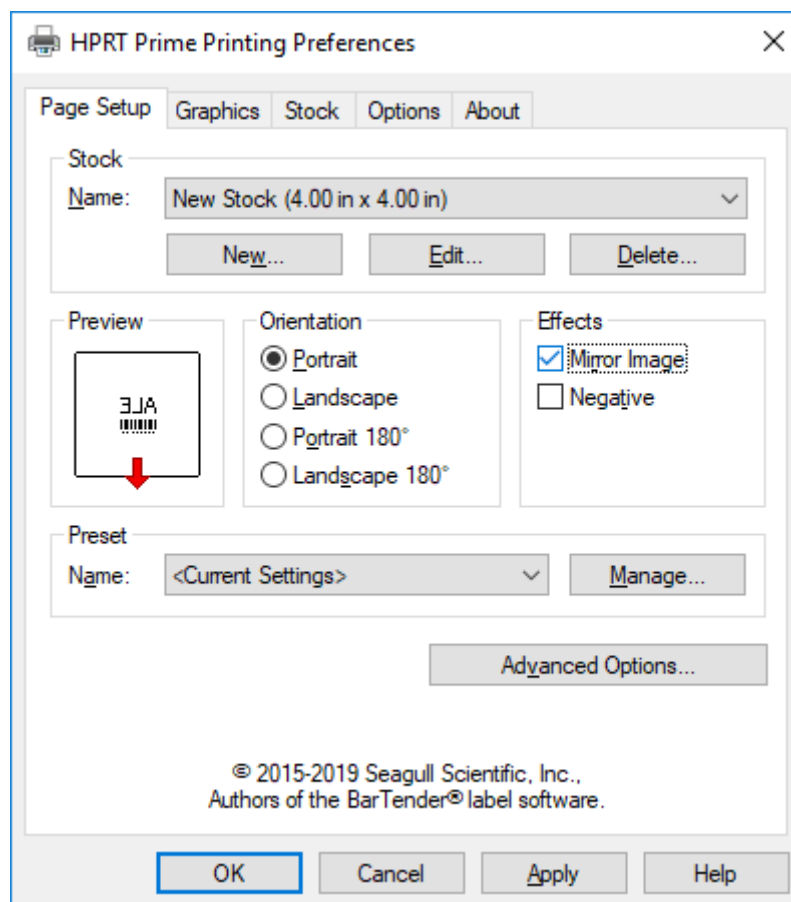


OK Cancel Help

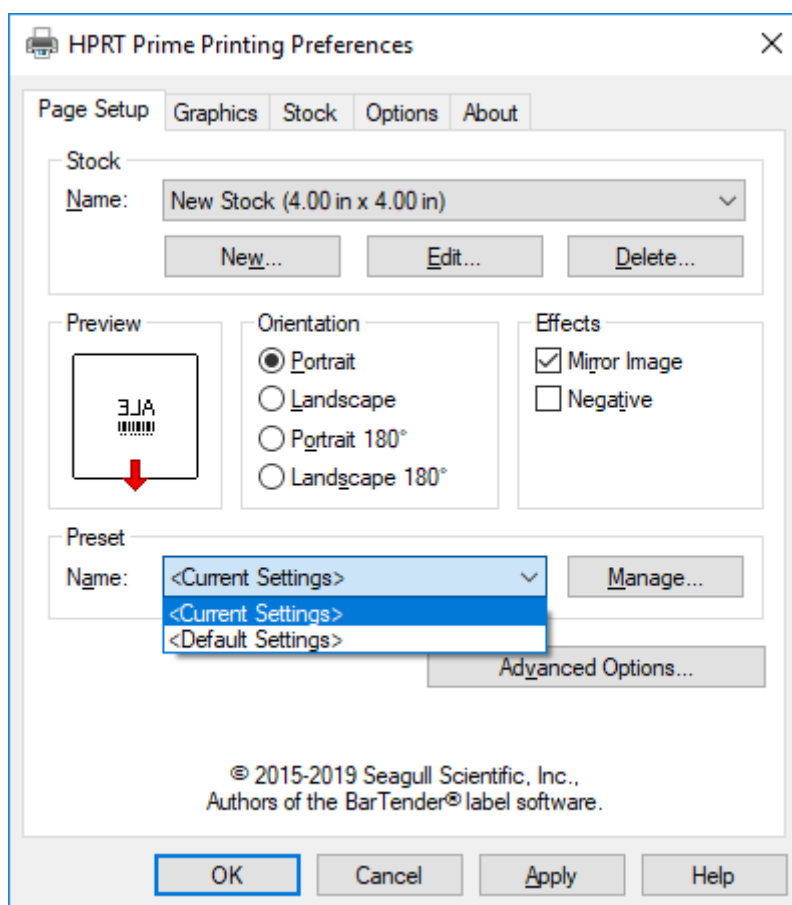
- Click “Delete Stock”, and delete the stock.



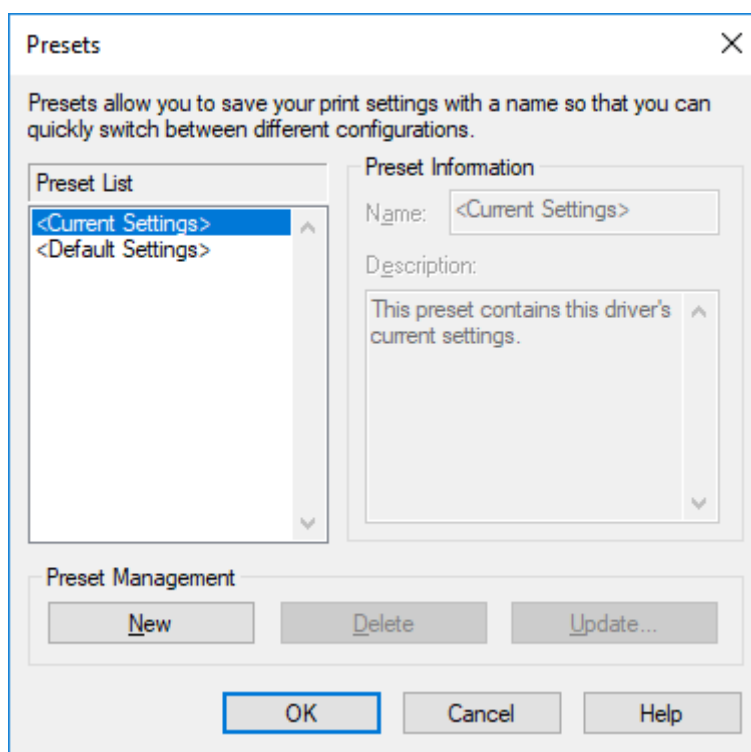
- Choose “Orientation” or “Effects”, showed in the “Preview”.



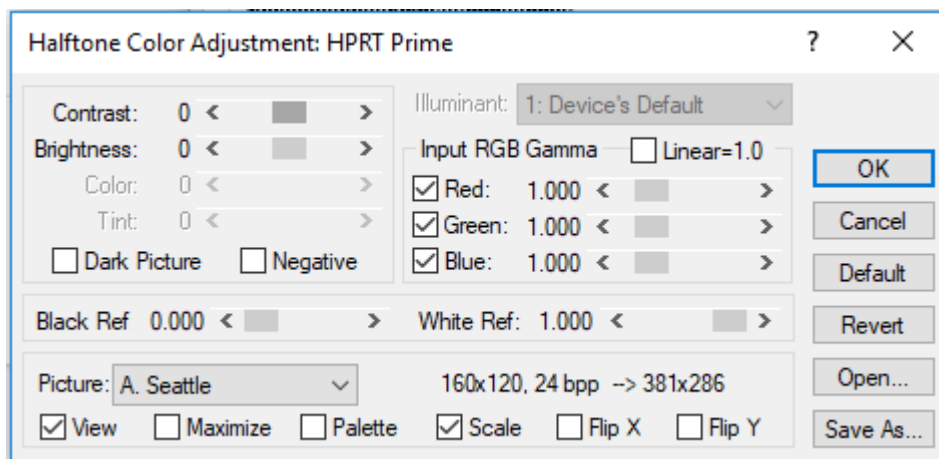
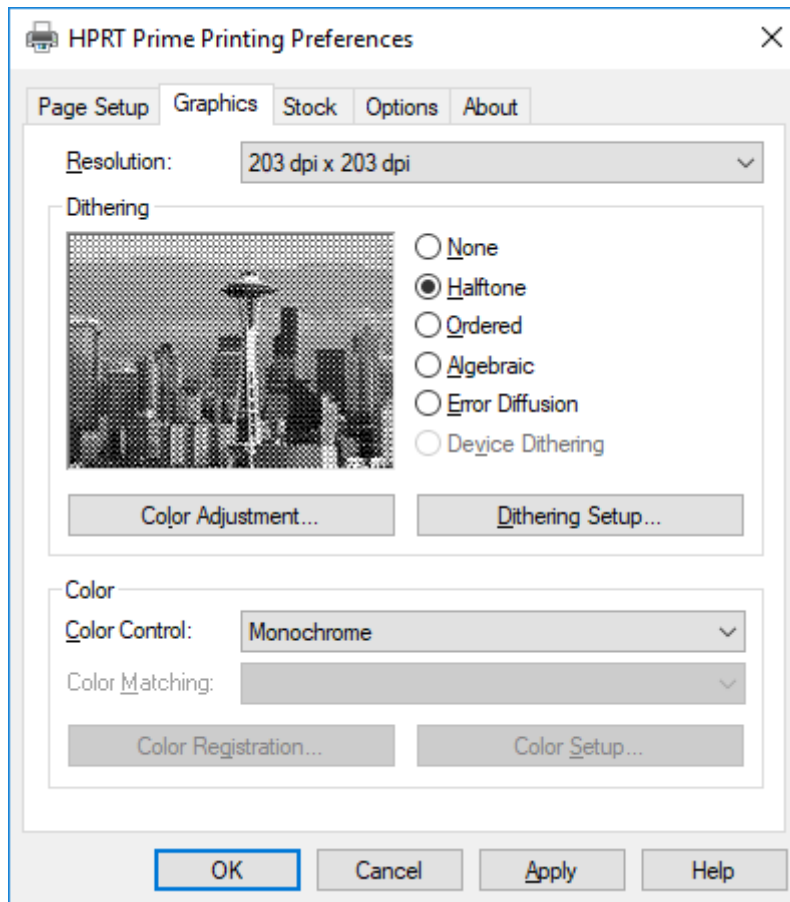
- Click “Preset” → “Name”, and back to the default settings.



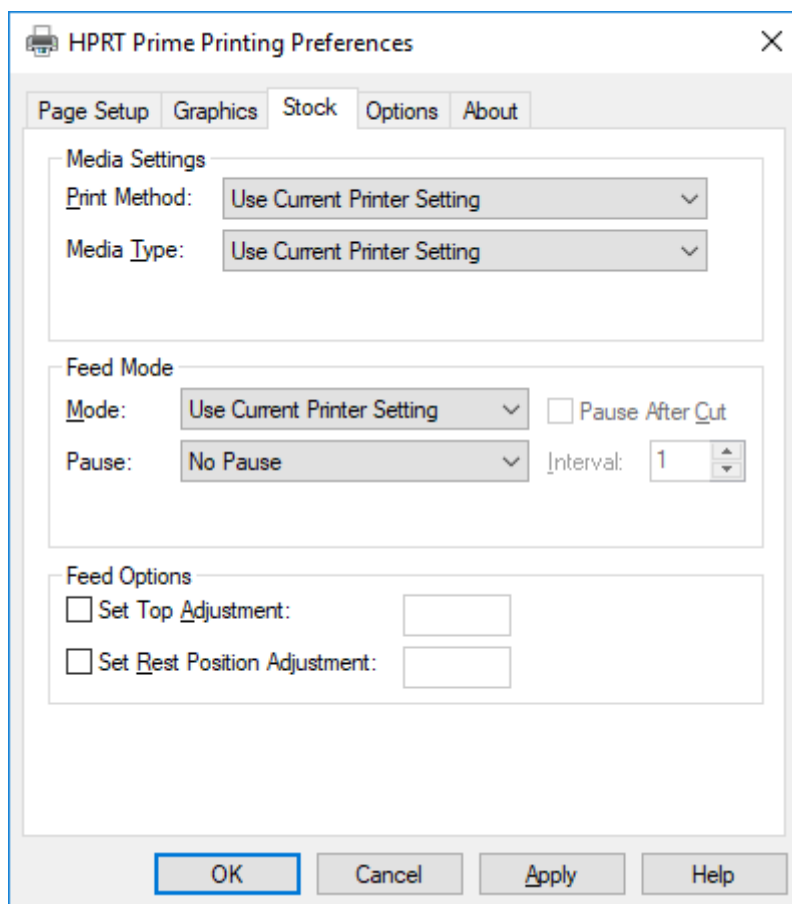
- Click “Manage”, and change the settings.



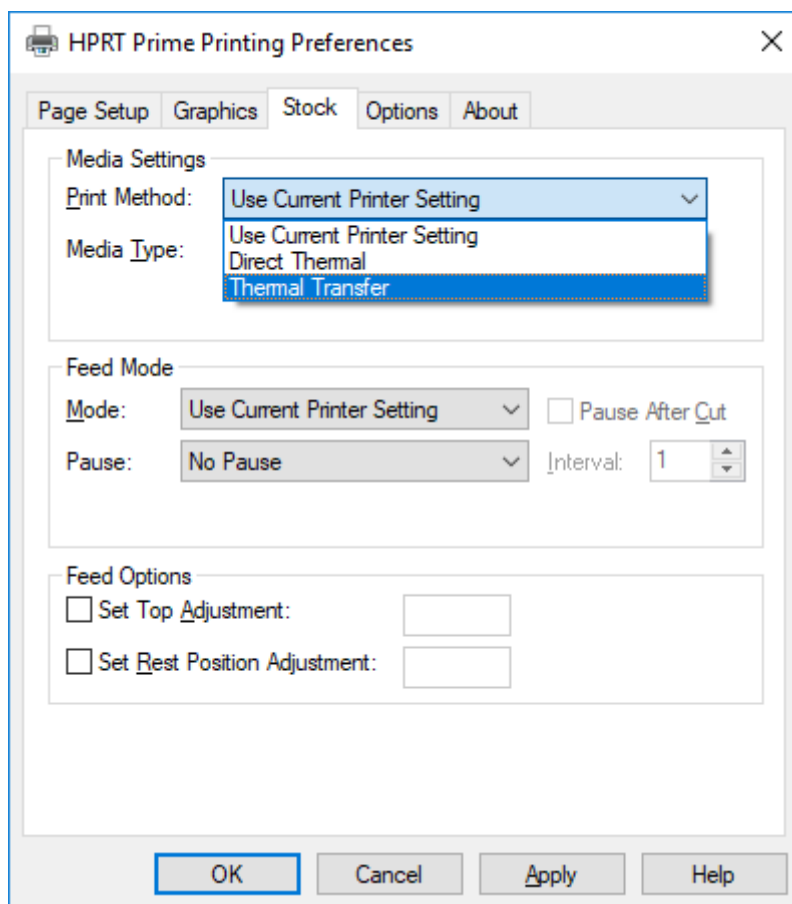
3. Click "Graphics", and edit the pictures.



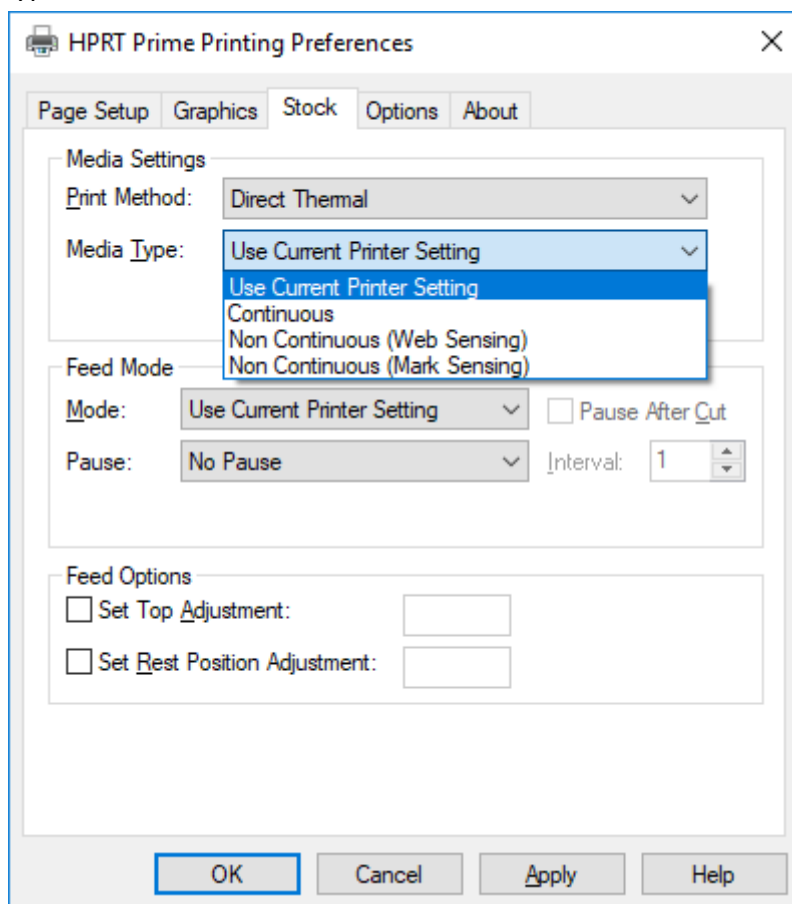
4. Click "Stock".



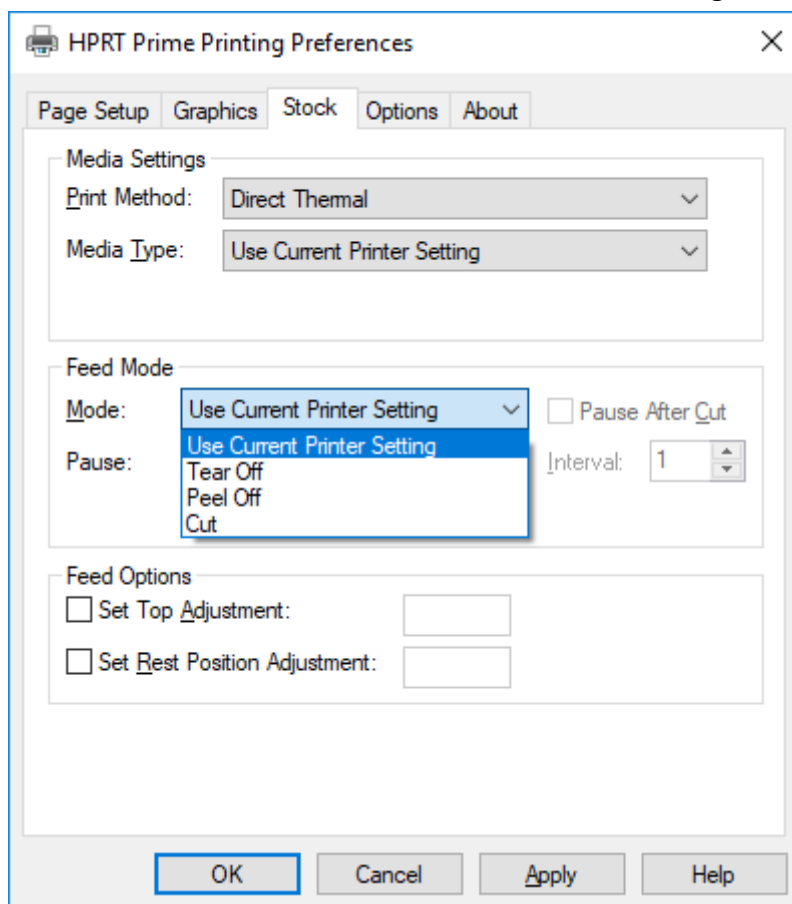
- Set up the print method.



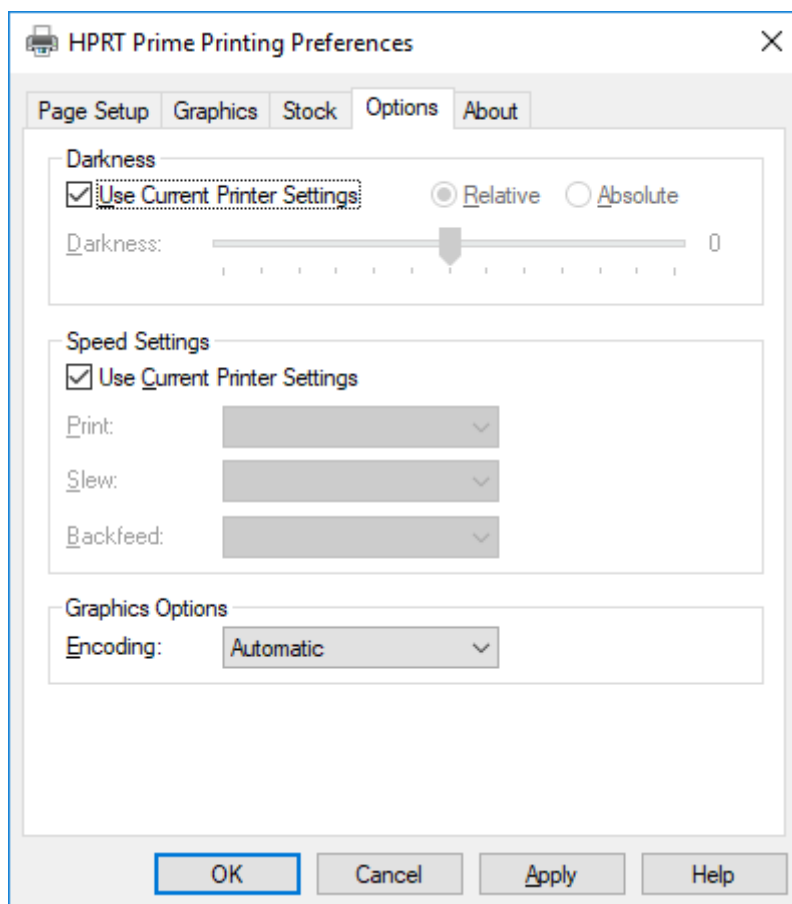
- Set up the media type.



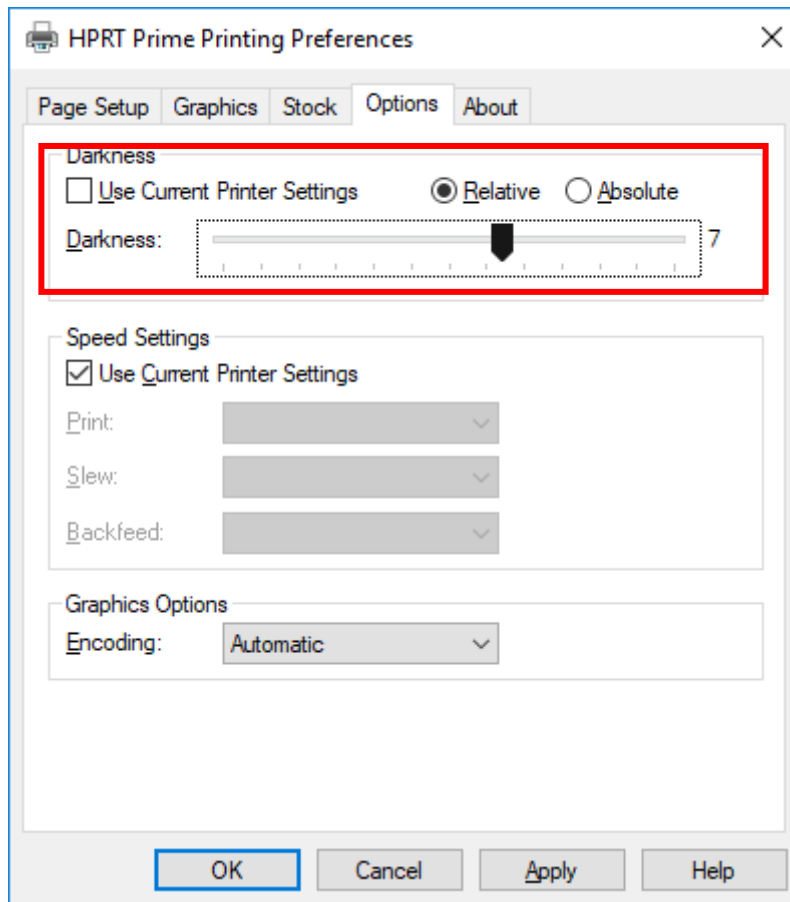
- Click “Feed Mode” → “Mode”, and choose the method of media handling.



5. Click "Option".

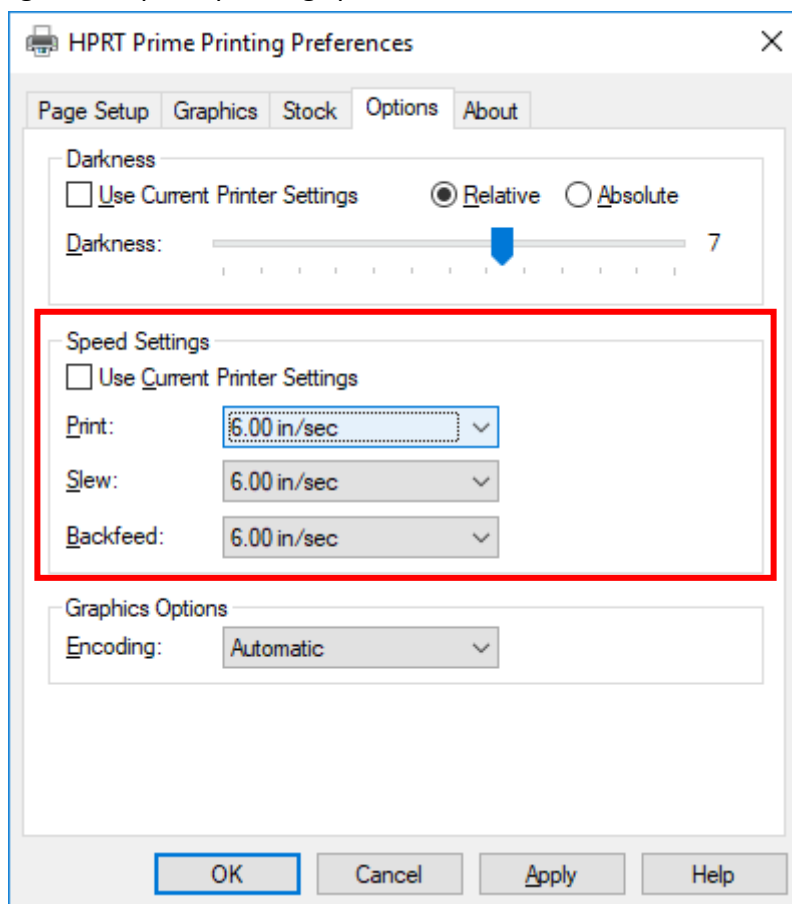


- Click “Darkness”. Set up the relative and absolute darkness.



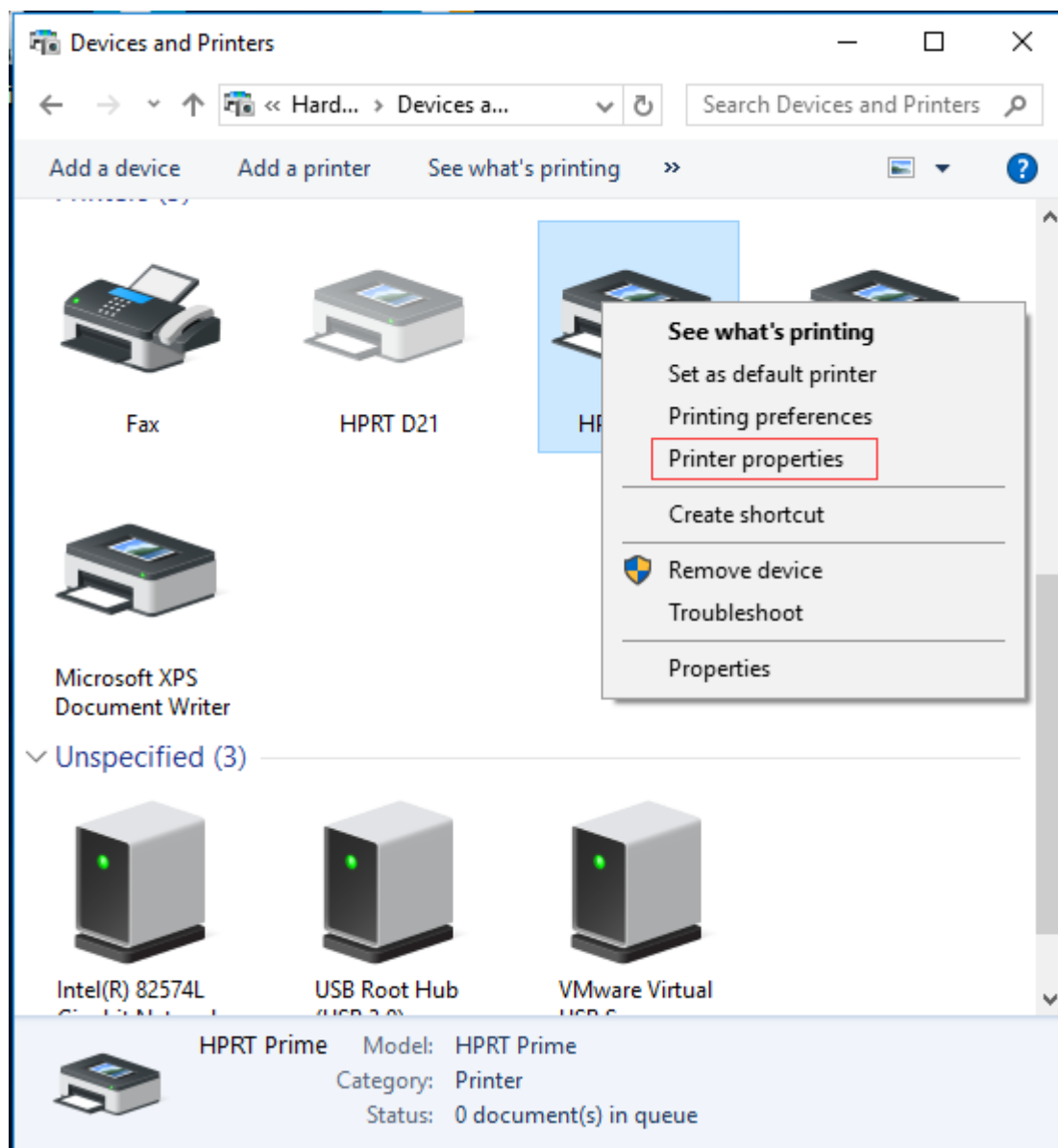
In general, the darkness of relative and absolute is 0 and 15 respectively. When the printing effect is too light, turn up the absolute darkness (<15). When the printing is too thick, turn down the absolute darkness (>15). The relative concentration remains unchanged.

- Click "Speed Settings". Set up the printing speed.

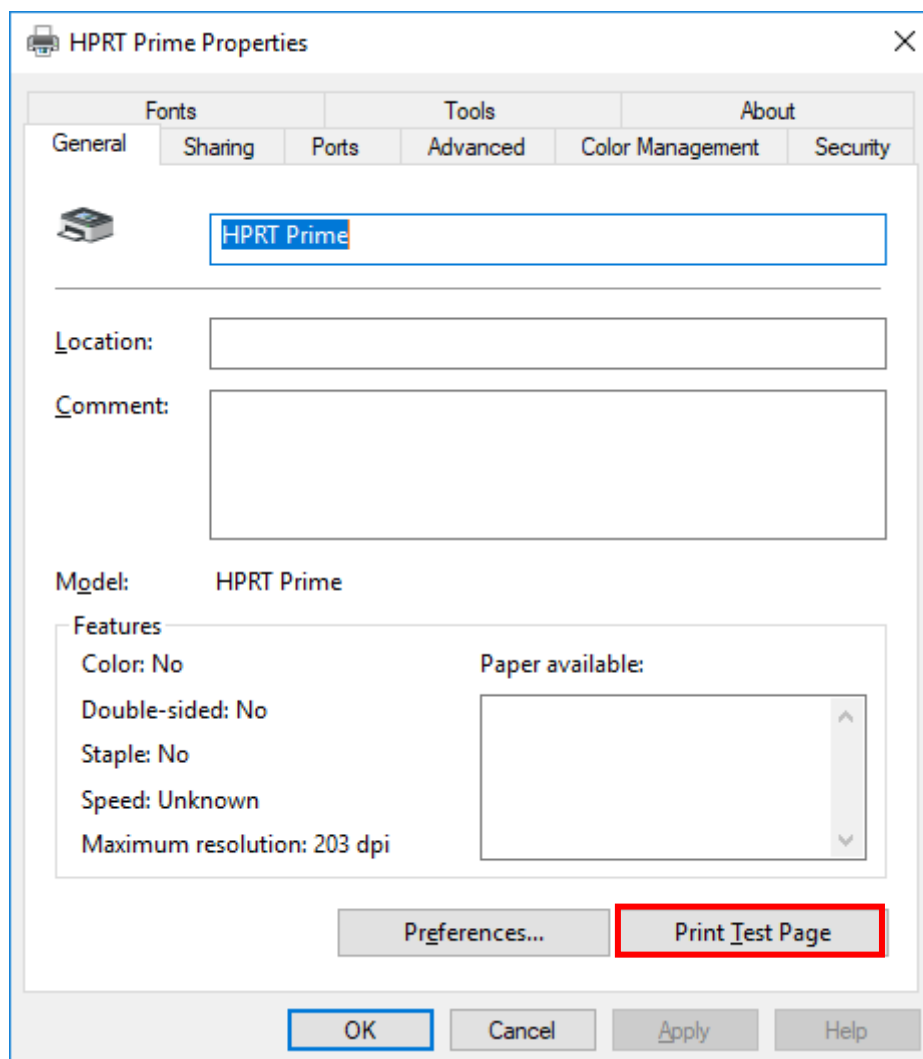


7.4.2 Printer Properties

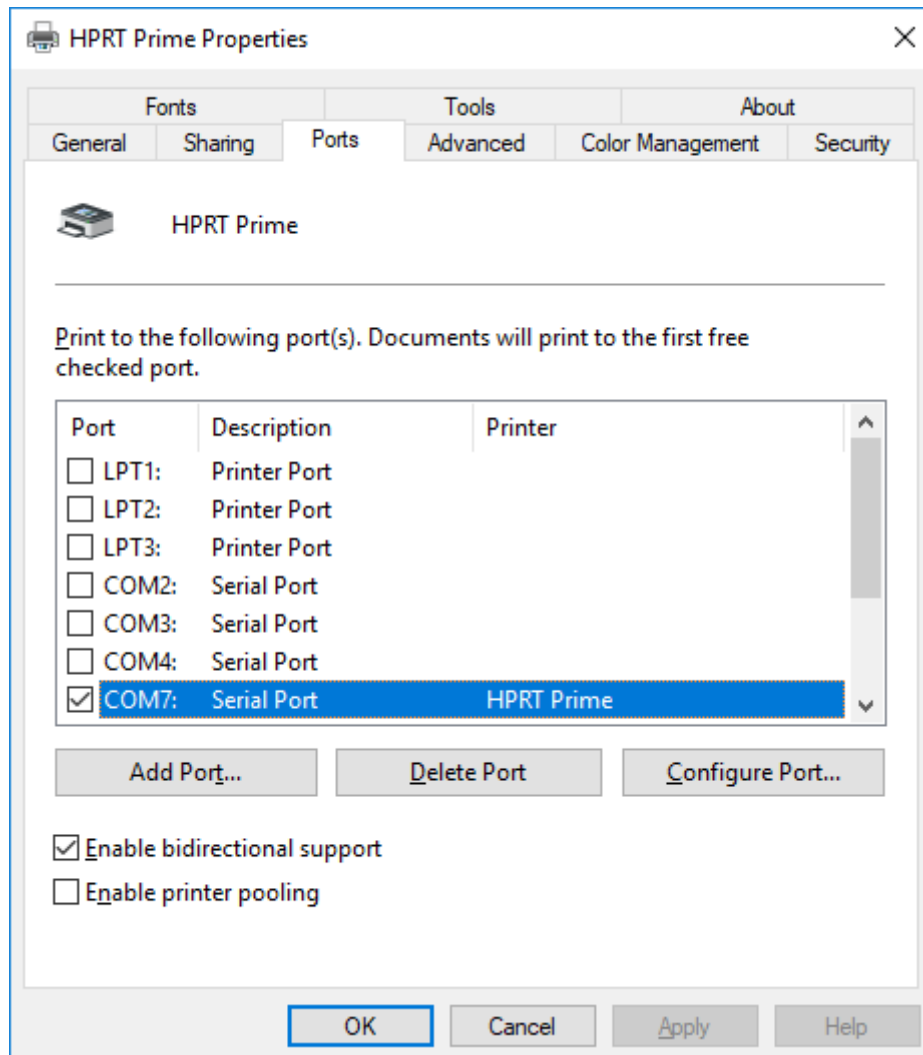
1. Click “Start” → “Devices and Printers”. Right click the icon and choose “Printer properties”.



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



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



Chapter 8 BarTender Ultralite Instructions

8.1 Introduction

This chapter provides instructions on BarTender Ultralite program according to PC operating systems(OS).

The followings are supported.

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

8.2 Installation Preparation


Download BarTender Ultralite application program in CD.

8.3 Installation

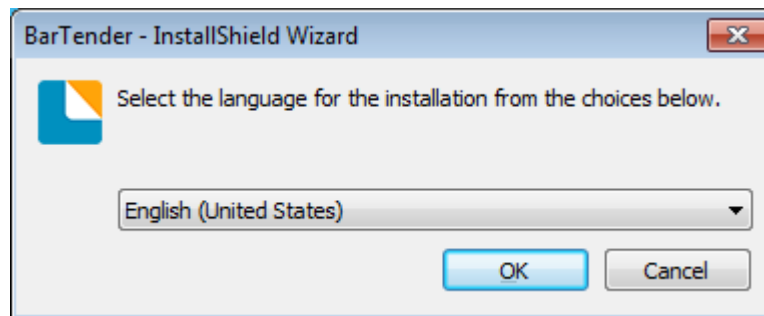


Note:

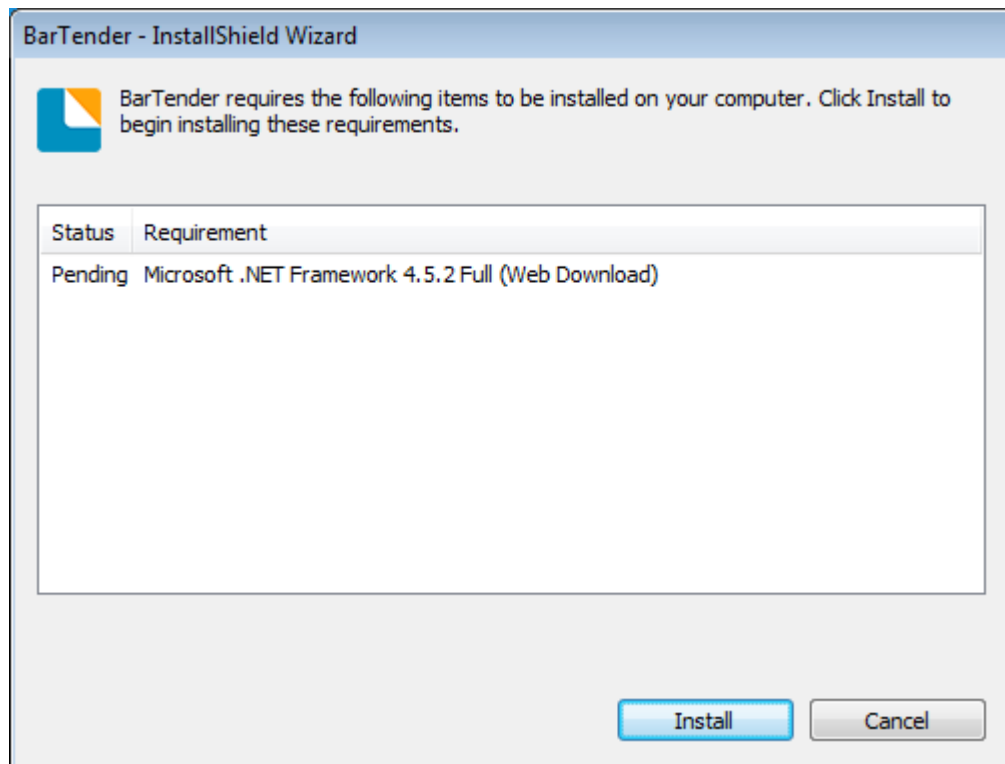
- Under different operating systems, the screen may be slightly different. Take Windows 7 as example.
- Take printer Prime as example.
- To avoid the prevention, recommend to close the security software before installation.

1. Double click the application program .

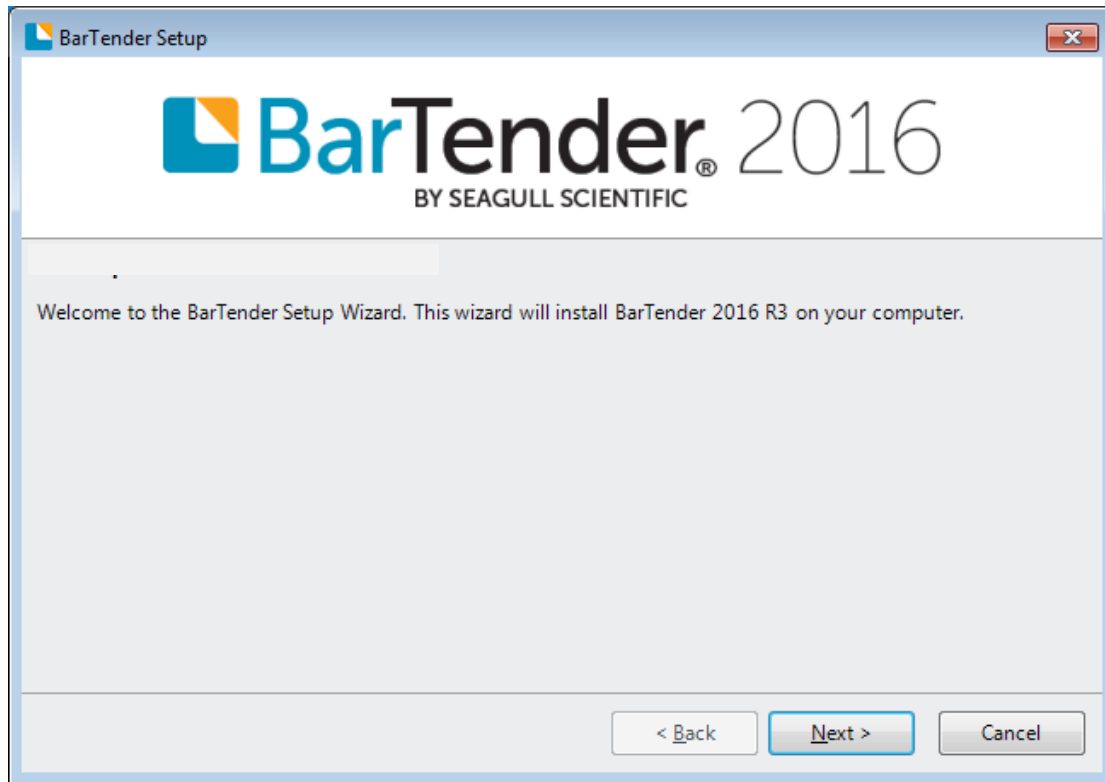
2. Select language, then click "OK".



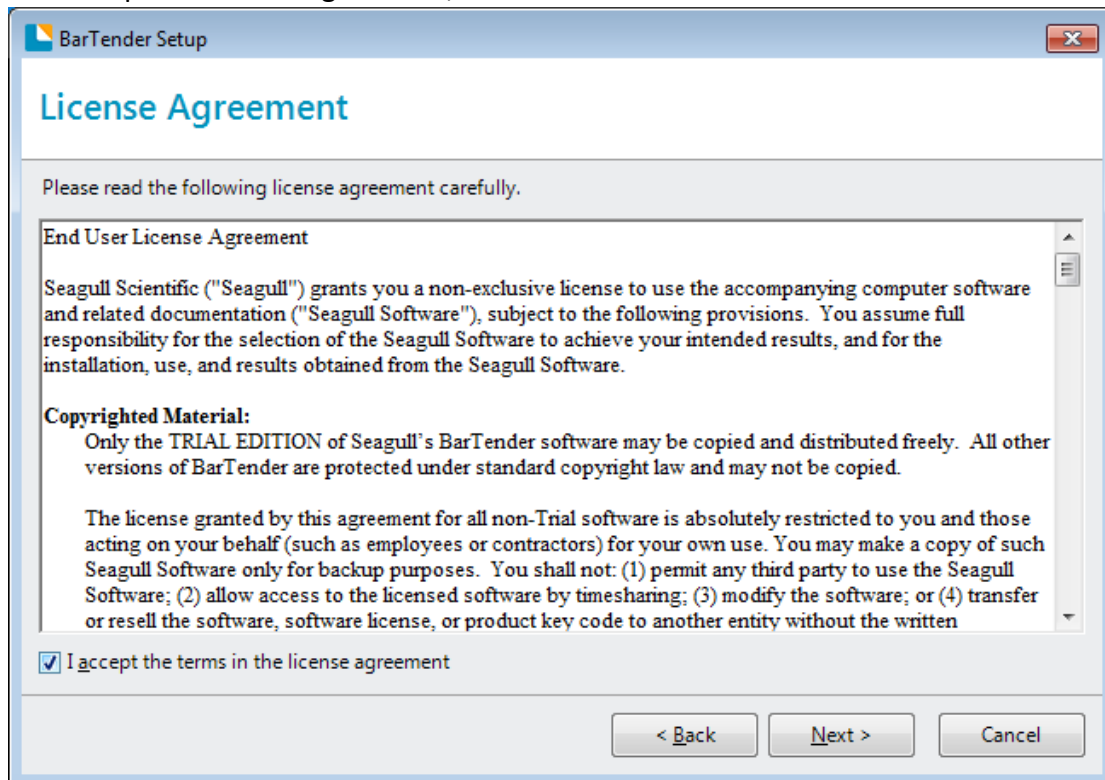
3. Click "Install".



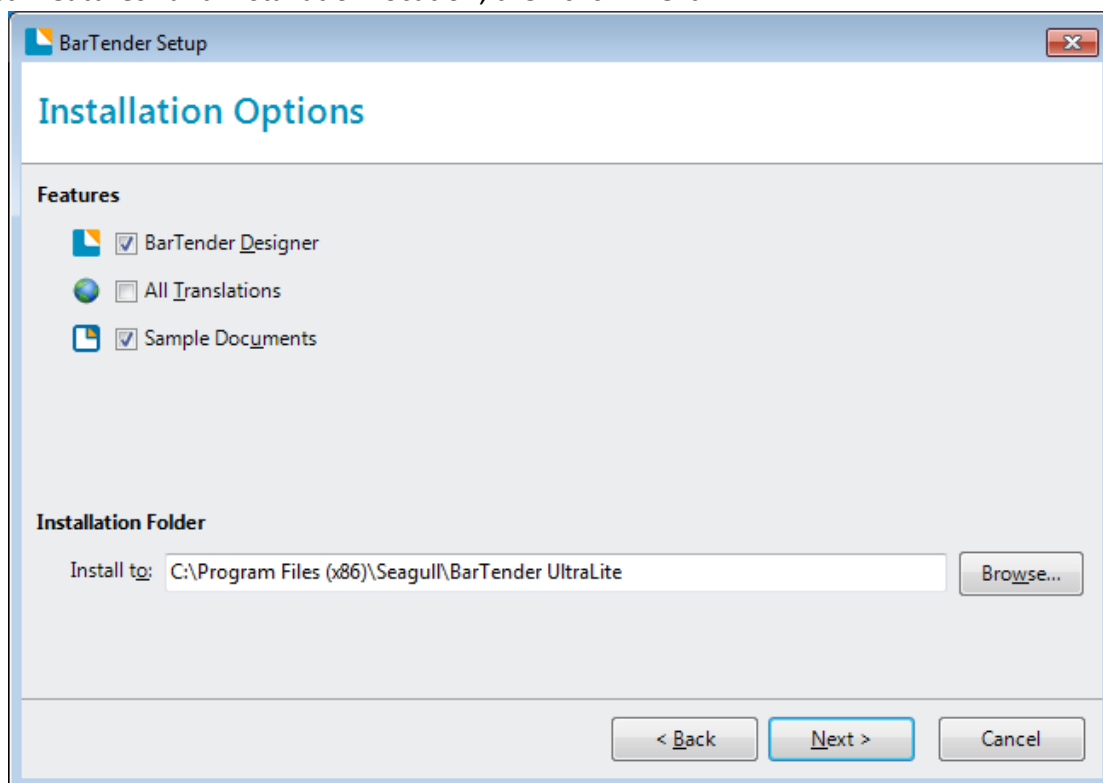
4. Click "Next".



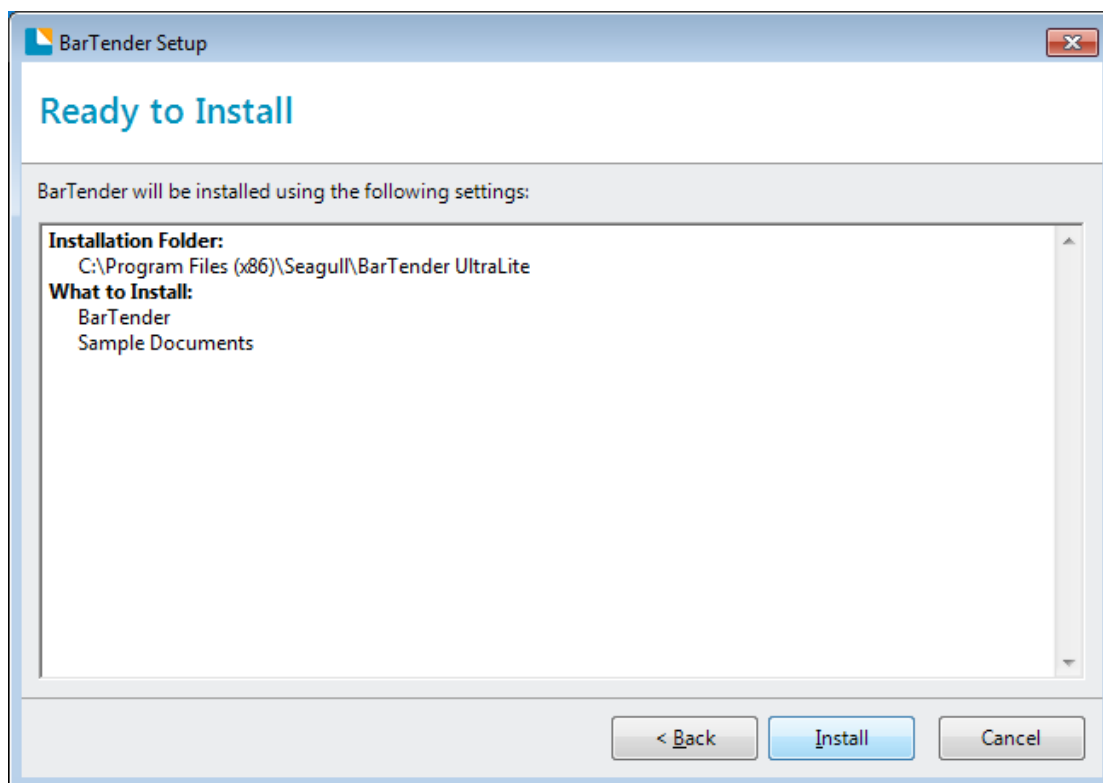
5. Read and accept the license agreement, then click "Next".

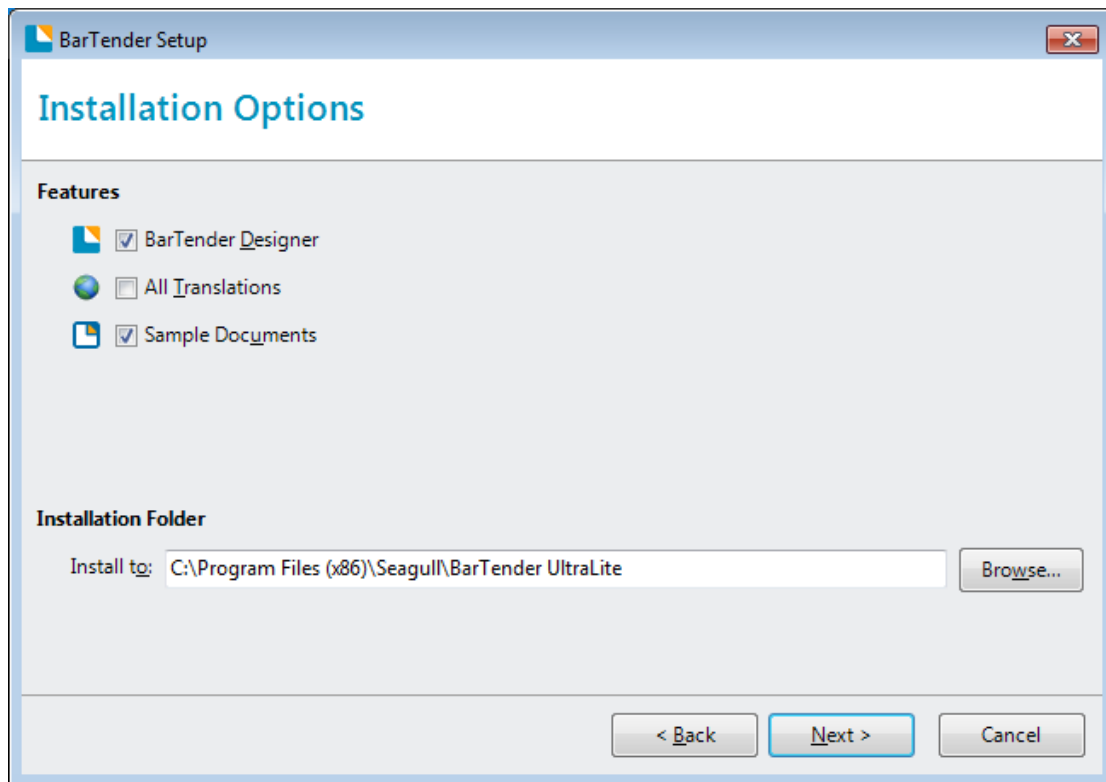


6. Select "Features" and installation location, then click "Next".

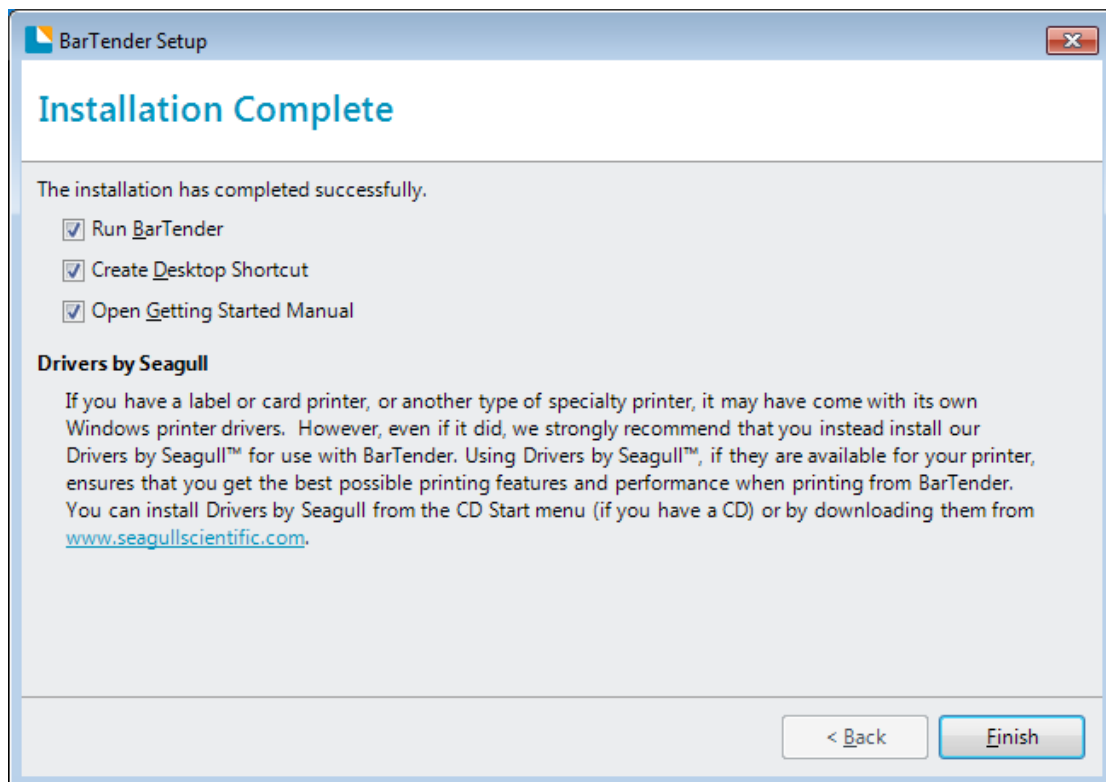


7. Click "Install".

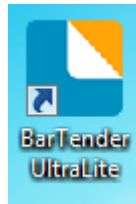




8. Click "Finish".



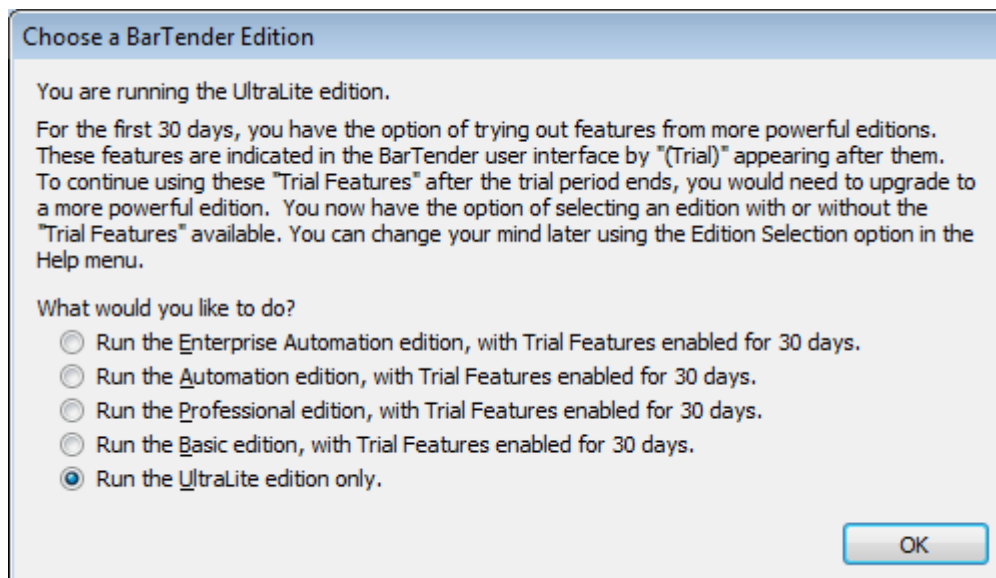
9. Back to desktop, and you will see the icon of BarTender UltraLite. Double click it and get down to use.



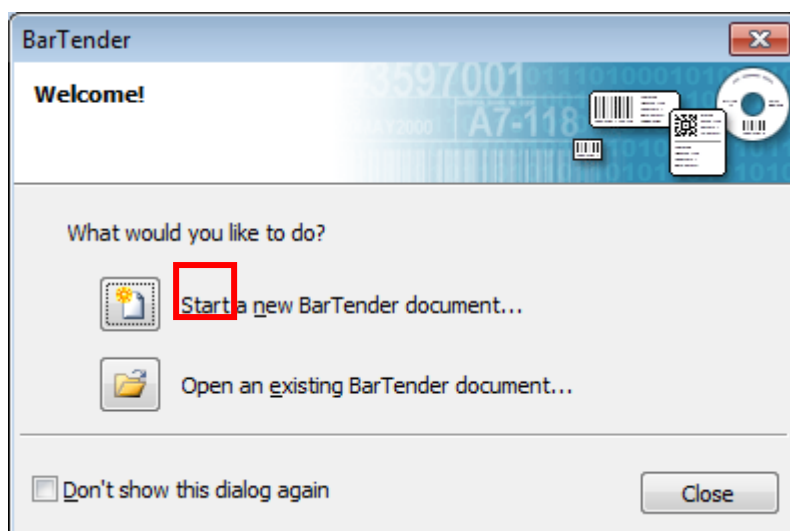
8.4 Usage

8.4.1 Page Settings

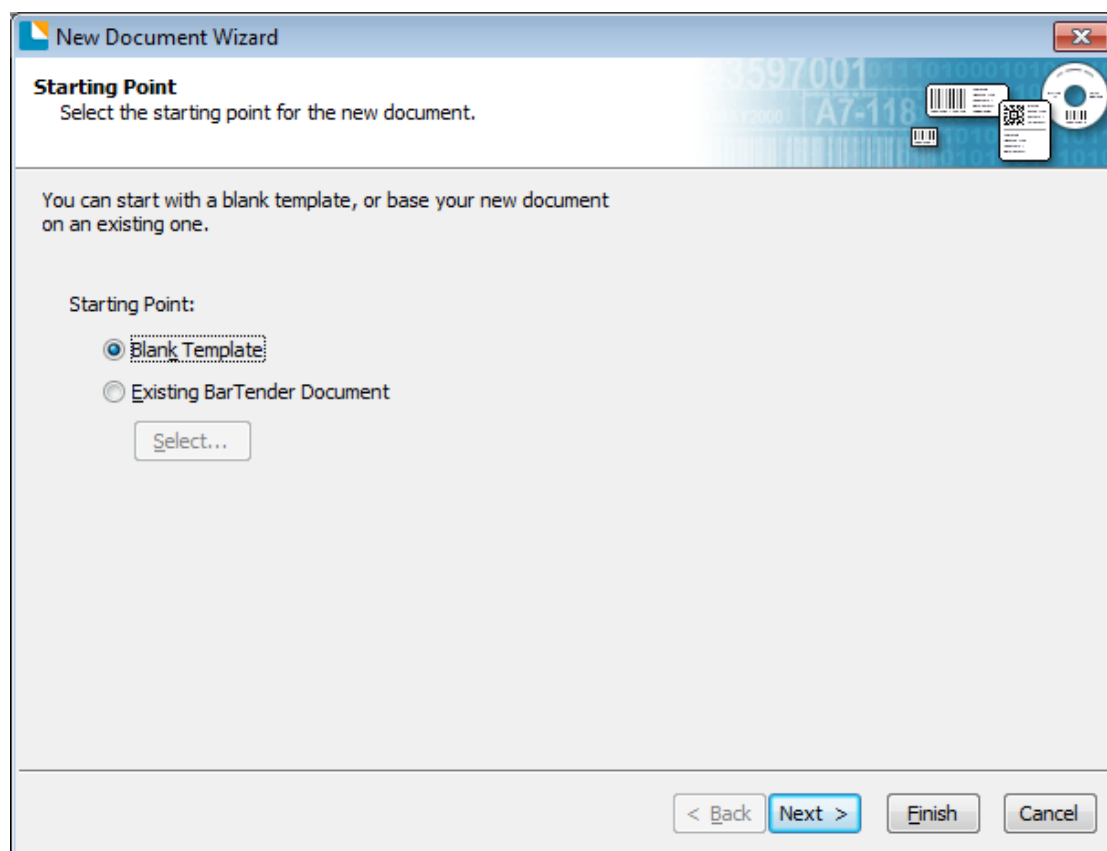
1. Double click the icon, then choose the edition. Click "OK". (The edition may be changed according to different needs.)



2. Click "Start a new BarTender document".



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



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

The screenshot shows the 'New Document Wizard' dialog box, specifically the 'Stock Selection' step. The dialog has a title bar with a close button. Below the title bar, the text 'Stock Selection' is displayed. A decorative header image shows various document elements like a barcode, a QR code, and a CD. The main text area explains that a 'Stock' specifies page size, item size, number, and position, and offers two options: 'Specify Custom Settings' (selected) and 'Use a Predefined Stock'. The 'Specify Custom Settings' option is highlighted with a dashed border. Below it, there is a 'Category:' dropdown menu and a 'Stock Name:' text box. At the bottom right, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.

New Document Wizard

Stock Selection

A Stock specifies the size of the page, and the size, number, and position of the items on the page. You may select a predefined Stock or specify your own custom settings.

☒ **Specify Custom Settings**

☐ Use a Predefined Stock

Category:

Stock Name:

< Back Next > Finish Cancel

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

The screenshot shows a Windows-style dialog box titled "New Document Wizard". The current step is "Items Per Page", with the instruction "Specify the characteristics of your media." The background of the dialog features a collage of various media types including a CD, a barcode, a QR code, and a document page with the text "3597001" and "A7-118".

Below the instruction, there is explanatory text: "Most media has only a single item (label, card, tag, etc.) per page of stock. Some media, however, are more complex and have multiple items on a page." This is followed by two radio button options: "☒ Single item per page" and "☐ Multiple columns and/or rows of items per page".

Under the "Multiple columns and/or rows of items per page" option, there are two spin boxes. The "Rows:" spin box is set to "1" and the "Columns:" spin box is also set to "1".

At the bottom right of the dialog, there are four buttons: "< Back", "Next >", "Finish", and "Cancel". The "Next >" button is highlighted in blue.

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

The screenshot shows the 'New Document Wizard' dialog box, specifically the 'Side Edges' step. The title bar reads 'New Document Wizard'. Below the title bar, the section is titled 'Side Edges' with the instruction 'Specify the characteristics of the sides of your media.' The main area contains a question: 'Does your stock have a small amount of unused material between the edge of the item and the edge of the page?'. There are two radio button options: 'Yes, it does have some unused material on the sides' (which is selected) and 'No, it does not'. Below these options is a section titled 'Width of Unused Area:' with two input fields: 'Left:' and 'Right:', both set to '0.05 in'. To the right of the text input fields is a 'Preview:' window showing a square template with a double-line border. Below the preview, it says 'Template Size: 3.998 x 4 in'. At the bottom of the dialog are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.

New Document Wizard

Side Edges
Specify the characteristics of the sides of your media.

Does your stock have a small amount of unused material between the edge of the item and the edge of the page?

☒ Yes, it does have some unused material on the sides
☐ No, it does not

Width of Unused Area:

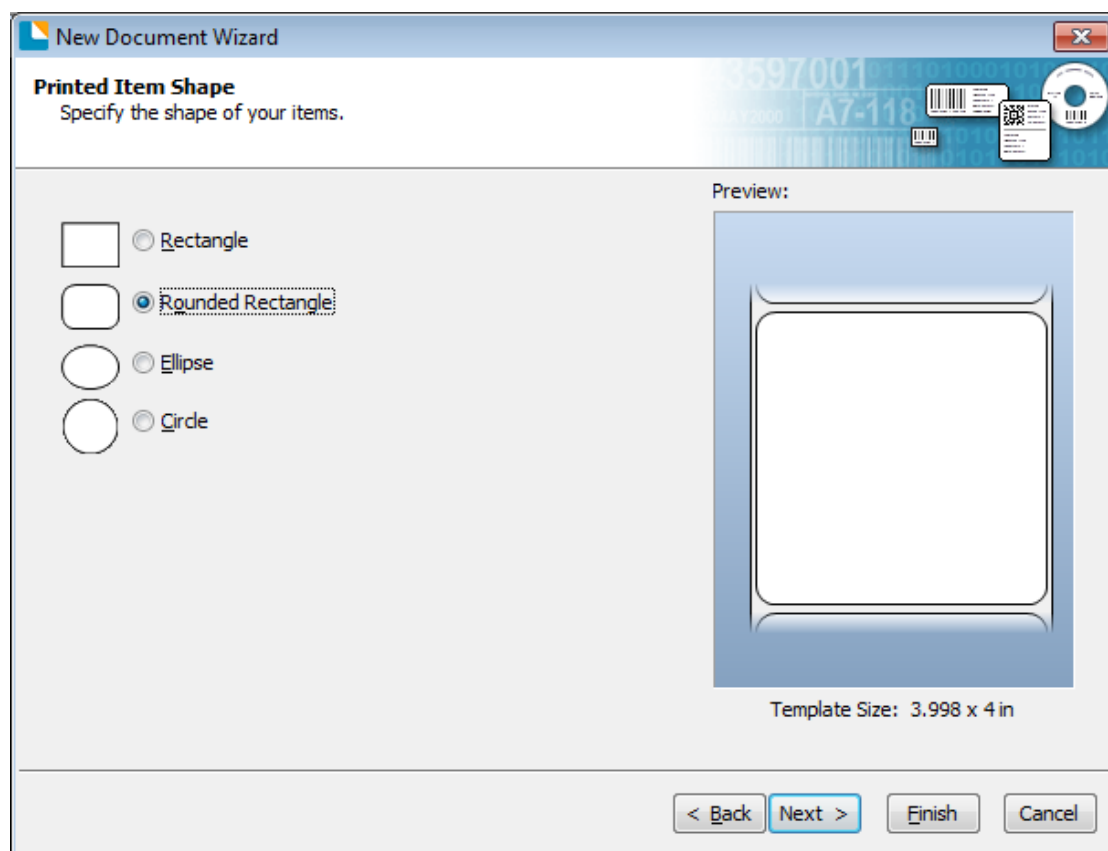
Left: 0.05 in
Right: 0.05 in

Preview:

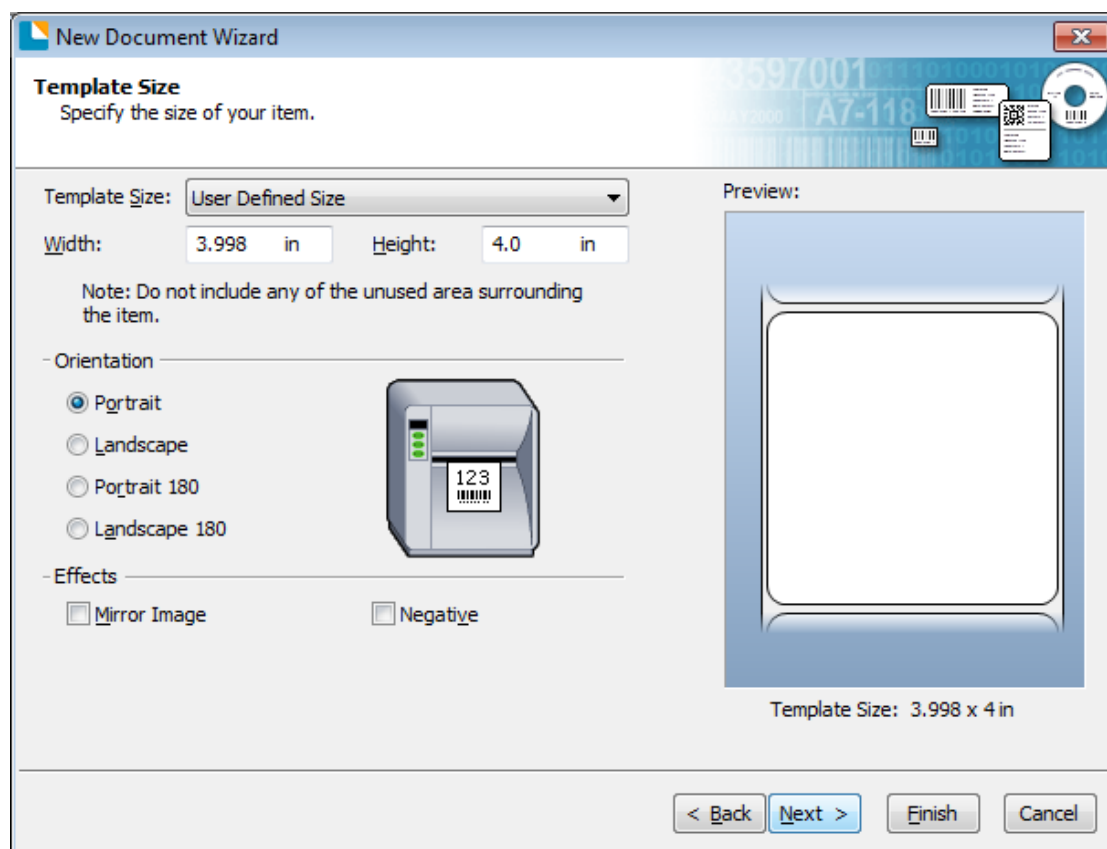
Template Size: 3.998 x 4 in

< Back Next > Finish Cancel

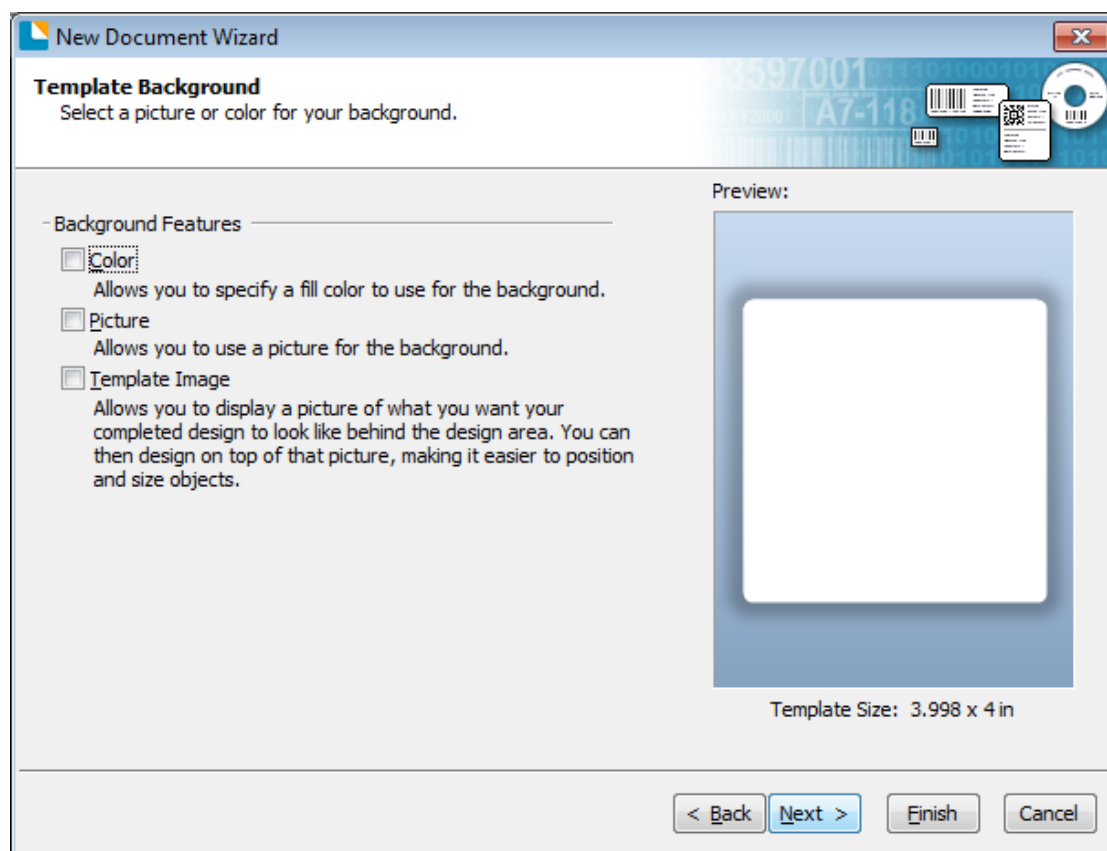
7. Choose the item shape, then click “Next”.



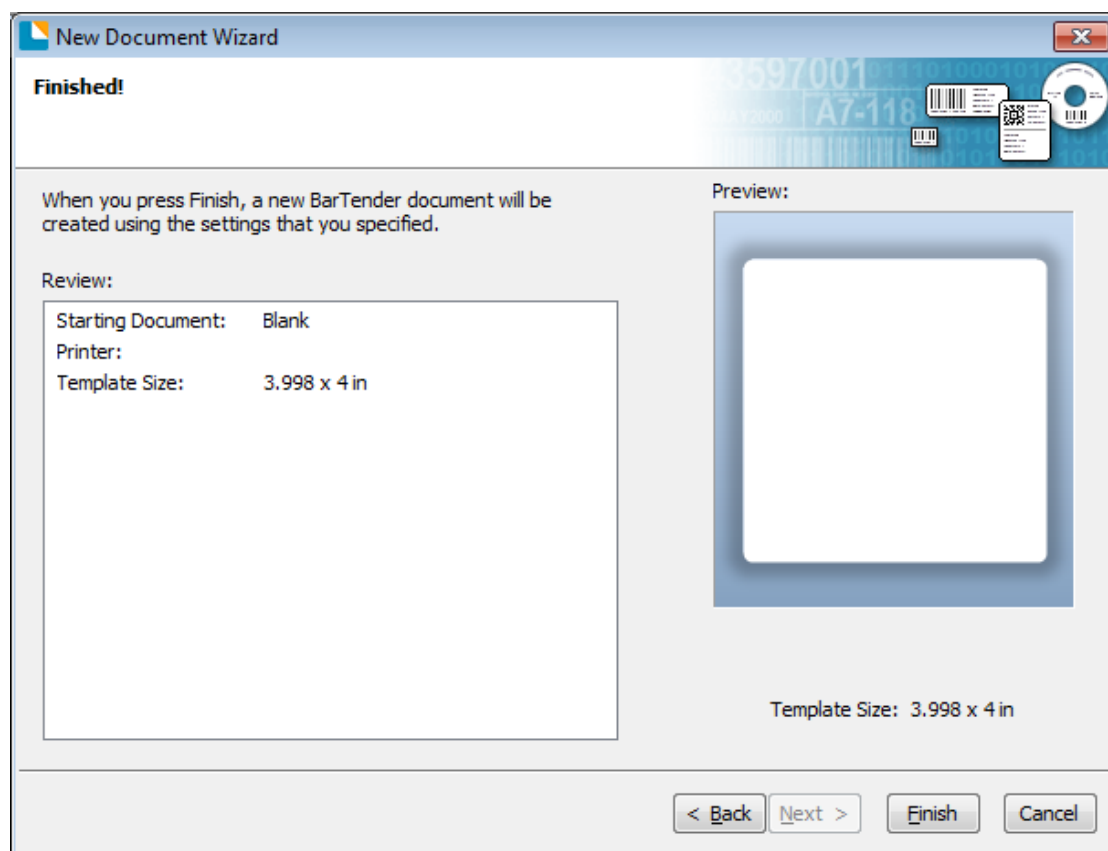
8. Edit the template size, then click “Next”.




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

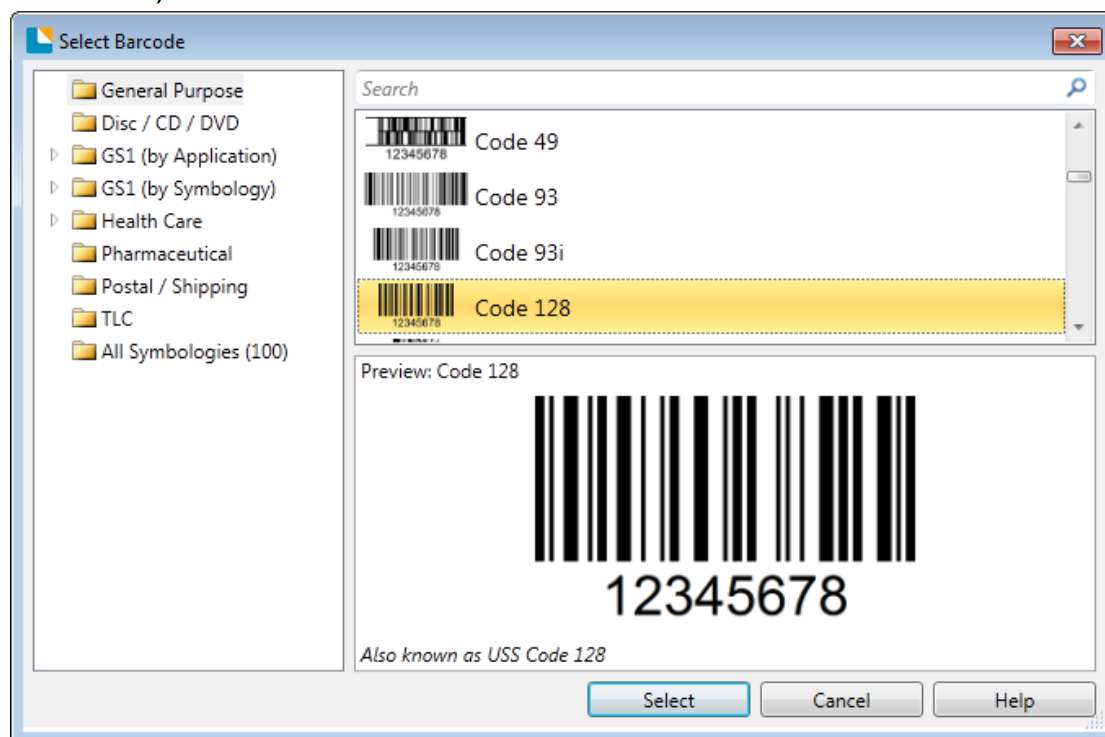


10. Finish the settings, showed in the “Review” and “Preview”. Then click “Finish”.



8.4.2 label Edit

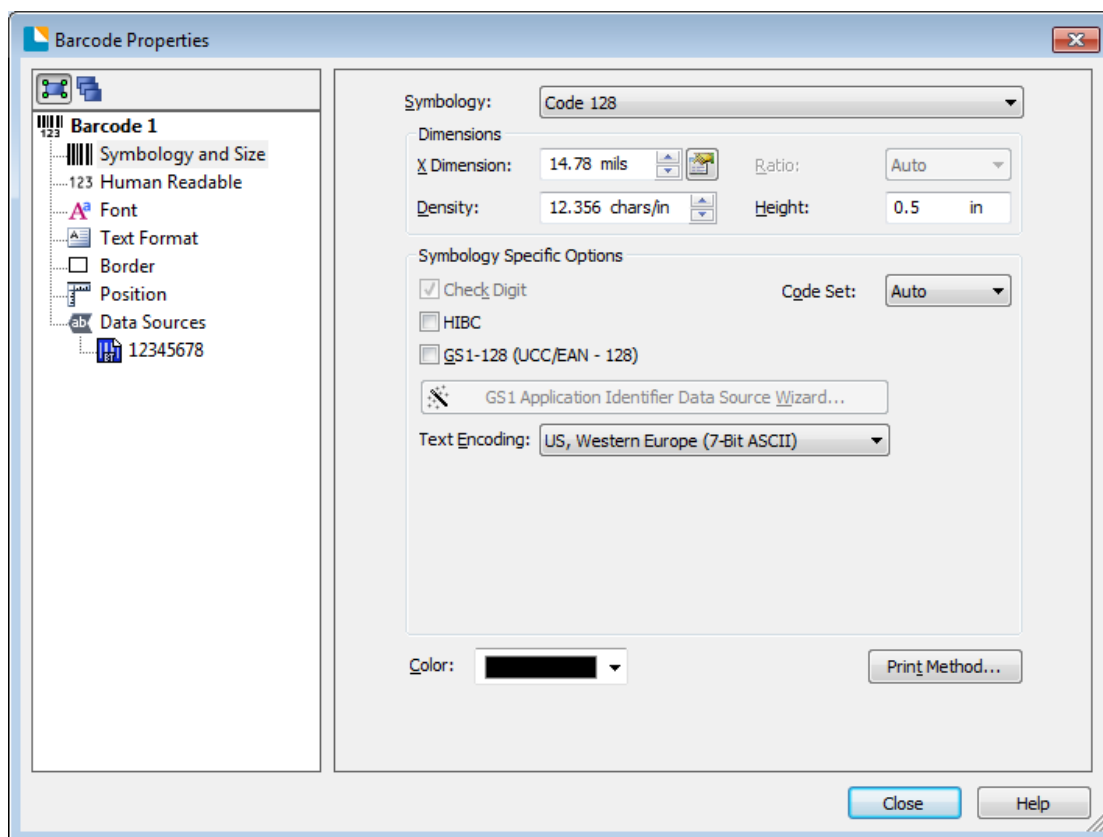
1. Click the icon of code .
2. Choose the code, then click "Select".




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.



Finishing the change, click “Close”.

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



6. Click the icon of picture , then edit the pictures.



7. Compose the text.



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