



SPR-400T

User Manual



Rev.1.0

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Changes Record

■ Statement

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■ Copyright

This manual is printed in 2023.
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.

Manual Information

This user manual contains basic information for product usage as well as for emergency measures that may be required.

The installation and usage of printer driver, utility tool and BarTender Ultralite are also included in the manual.

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.
 - Please 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.

Chapter 1 Introduction

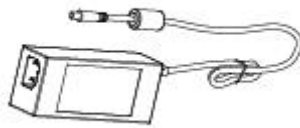
1.1 Packing List

**Note:**

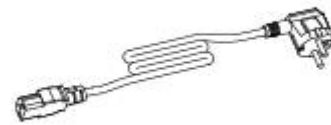
1. Unpack the printer and keep the packing material in case you need to ship the printer in the future.
2. Any damages exist, please contact the local dealer.



Printer



AC Adapter



Power Cord



USB Cable



Label Roll



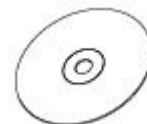
Ribbon Spindles



Ribbon



Empty Ribbon Core



CD

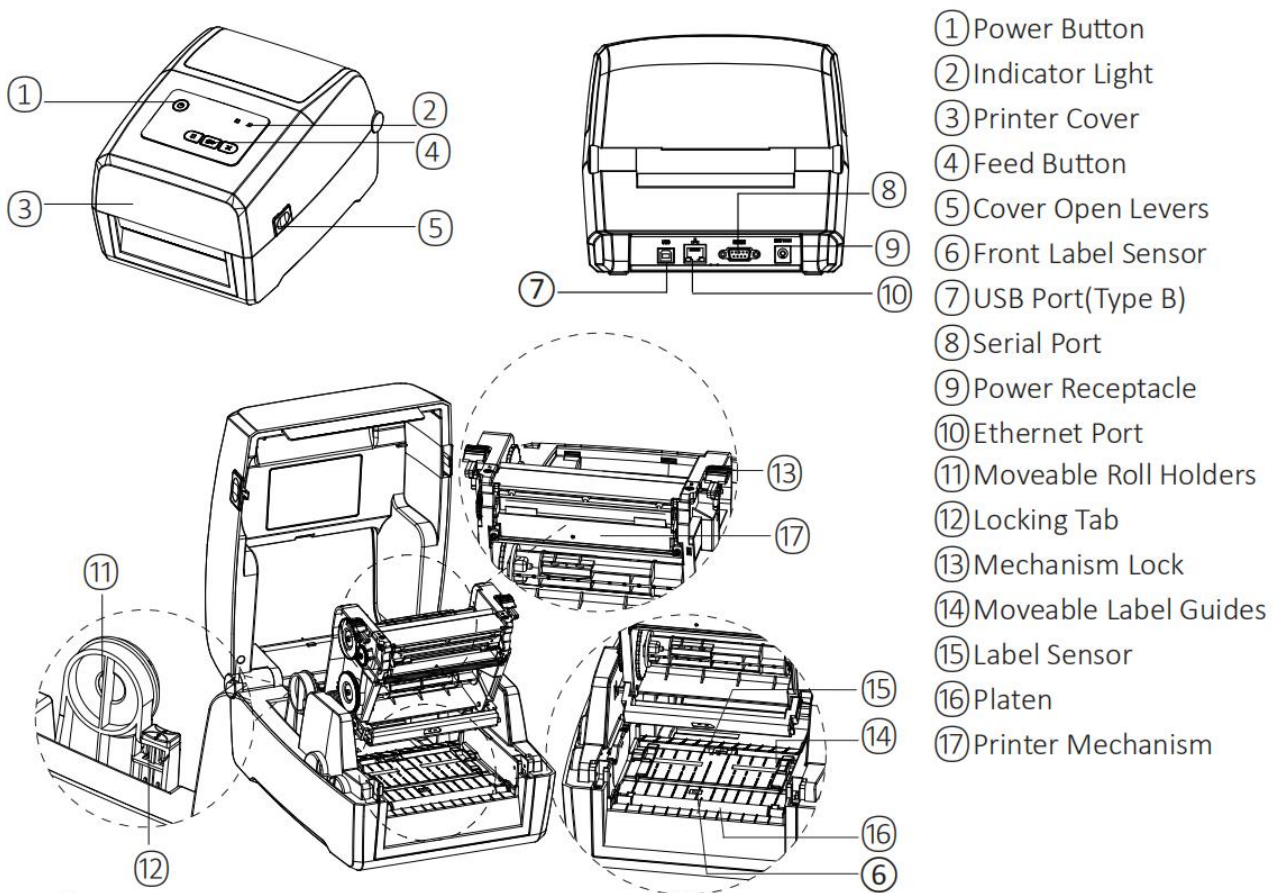


Quick Start Guide



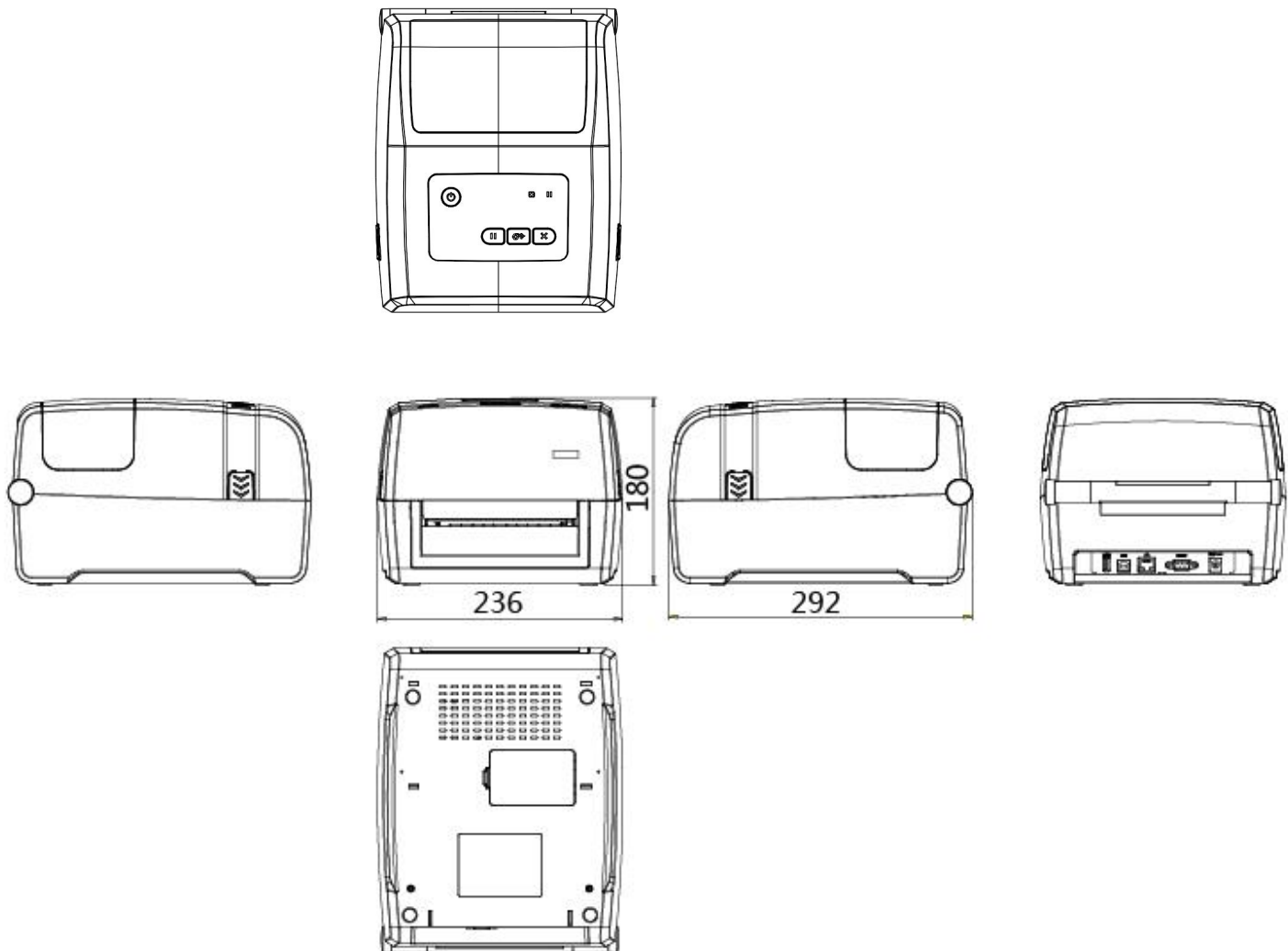
Note: The packing materials are based on the order.

1.2 Appearance and Components



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

1.3 Dimension



Chapter 2 Specifications

Item		Parameter
Type		SPR-400T
Printing	Printing Method	Thermal transfer/Direct thermal
	Resolution	203dpi
	Max.Printing Speed	6 ips (203dpi)
	Max.Printing Width	108 mm(203dpi)
	Max.Pringting Length	1200mm
Memory	RAM	128MB
	Flash	128MB
Programming Language		ZPL,TSPL,DPL,EPL
Detection	Sensor	Out of Paper Sensor,Gap Mark Sensor,Ribbon Sensor, Black Mark Sensor, Cover Opening Sensor
Media	Types	Folding Paper, Reel type, Black Mark, Punched Hole Label
	Width	1 inch(25.4mm) – 4.33 inches(110 mm)
	Thickness	60um-200um
	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	2"(50 mm)-4.38"(118 mm)
	Length	984'(300 m)
	Core Diameter	1"(25.4 mm)
Software	Label Design Software	HPRT BarTender Ultralite
	Driver	Windows XP,7,8,10, Vista,7, 8, 11. 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™, Simplified Chinese

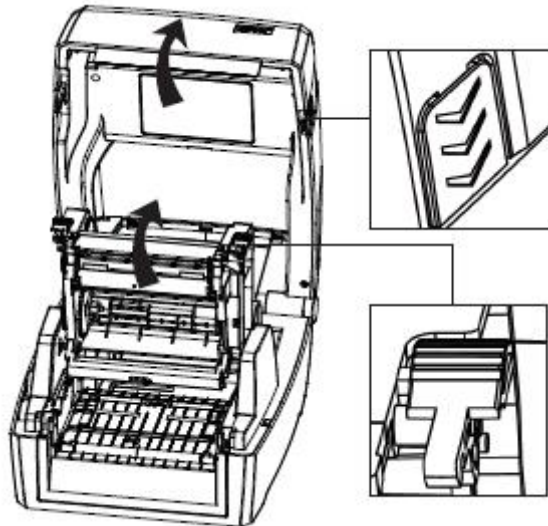
Item		Parameter
Barcodes	1D	Code 39, Code 93, Code 128UCC, Code 128 subset A, B, C, Codabar, Interleave 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN and UPC 2 (5) digits add-on, MSI, PLESSEY, POSTNET, RSS-Stacked, GS1 DataBar, Code 11
	2D	PDF417, Maxicode, DataMatrix, QR Code, Aztec
Code Pages		DOS437,720,737,755,775,850,852,855,856,857,858,860,862,863,864, 865,866, Windows 1250,1251,1252,1253,1254, 1255,1256,1257,1258, ISO8859-1,-2,-3,-4,-5,-6,-8,-9,-15
Interfaces	Standard	USB, Ethernet, Serial Port
	Optional	Wi-Fi, Bluetooth
Control Panel		Power switch button, FEED button, Pause button, Cancel button, 2 indicating LED
Power Supply		Input: AC 100-240V, 50/60HZ Output: DC 24V/2.0A
Environment	Operation	41°F(5°C)-104°F(40°C), 30%-85% non-condensing
	Storage	-4°F(-20°C)-122°F(50°C), 10%-90% non-condensing
Physical Characteristic	Dimension (L*H*W)	308*250*180 mm
	Weight	About 2.9 kg
Options & Accessory		Peeler Module, Cutter Module, Hob Module
Printing RFID label		Support
Agency Approval		CE,FCC,CB

Chapter 3 Installation & Usage

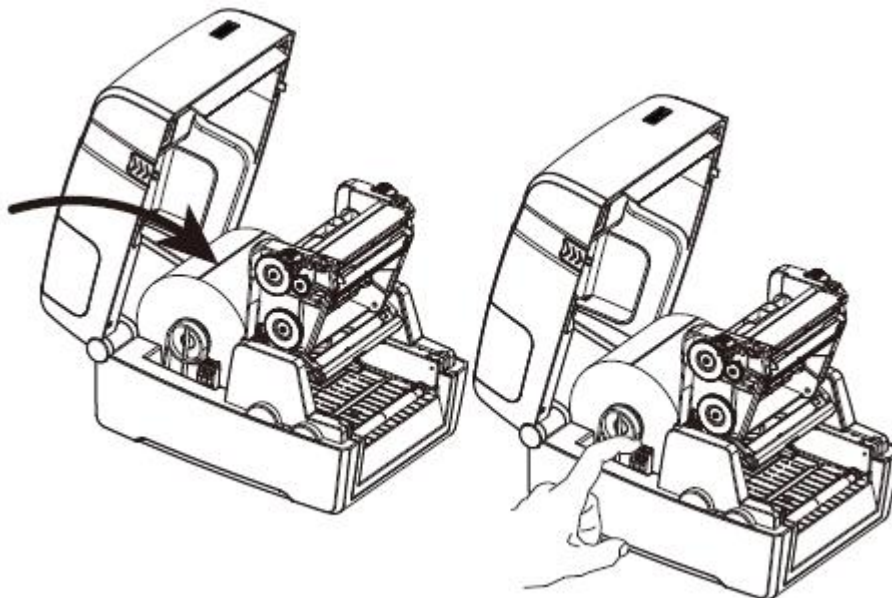
3.1 Media Loading

3.1.1 Loading the Roll

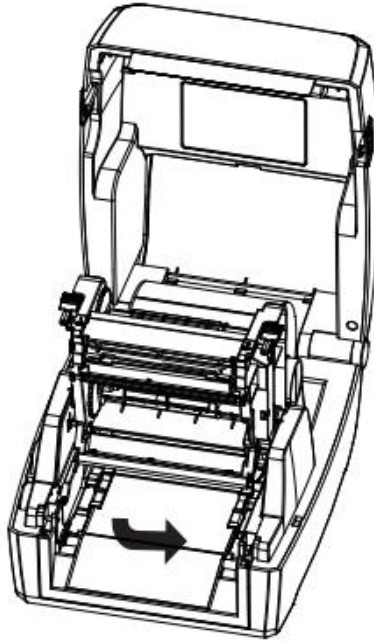
1. Press to open the printer cover and mechanism.



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



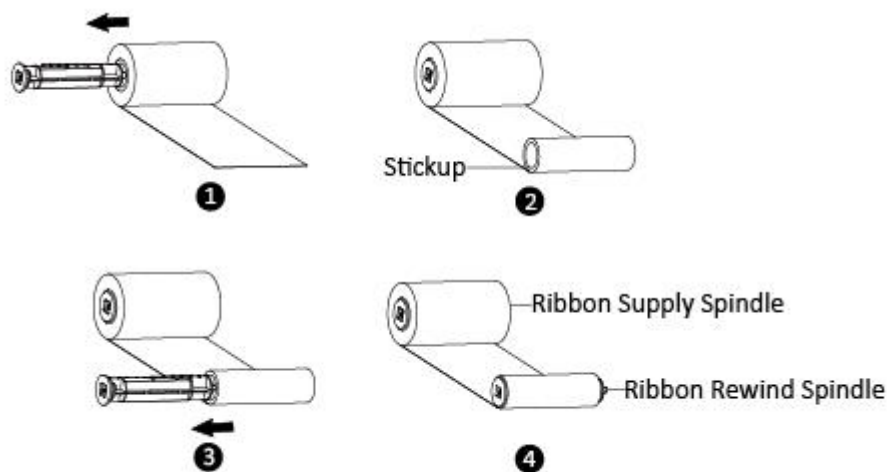
3.Pass the labels through label guides and adjust label guides to adapt to the label width.



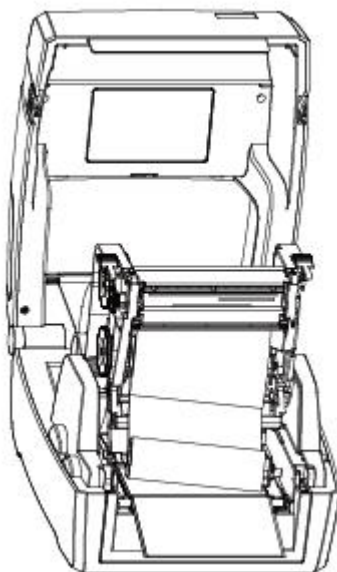
Note: If your printer is under Thermal Line Printing Method, press down the printer cover until it snaps closed. Otherwise, continue the procedure in chapter 3.1.2.

3.1.2 Loading the Ribbon

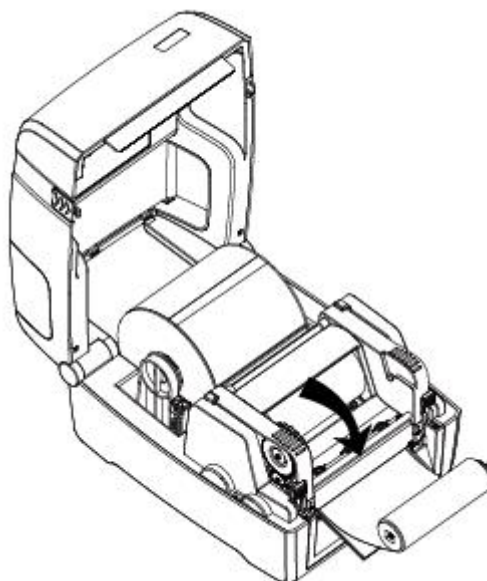
1. Install the ribbon module.



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



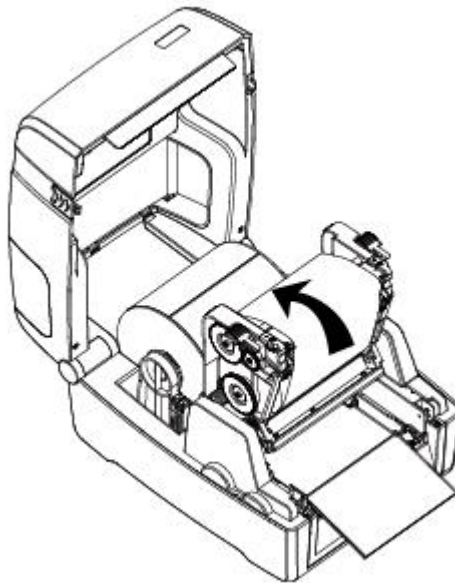
3. Press down the printer mechanism.



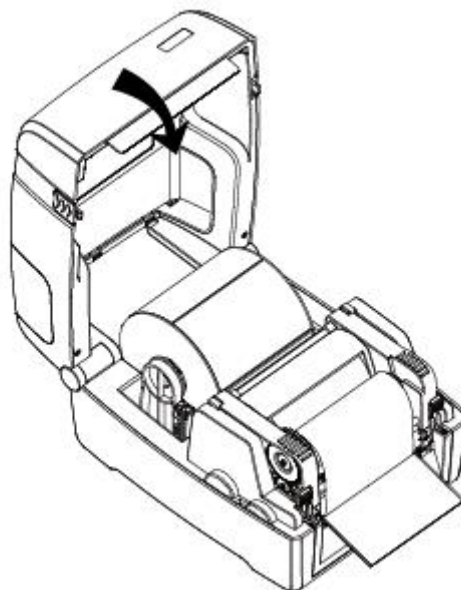
4. Insert the left part of rewind spindle and then the right part.



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

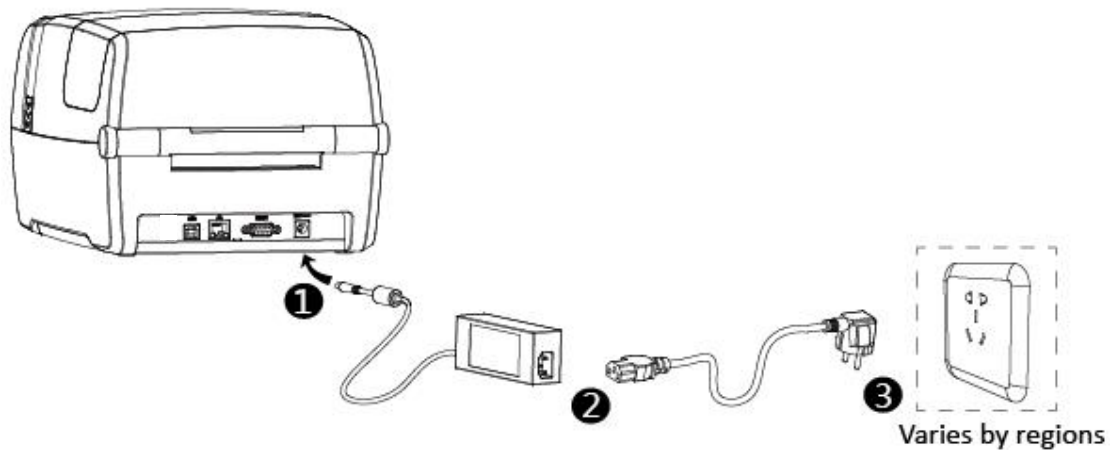


6. Fix the mechanism and close the cover.



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.

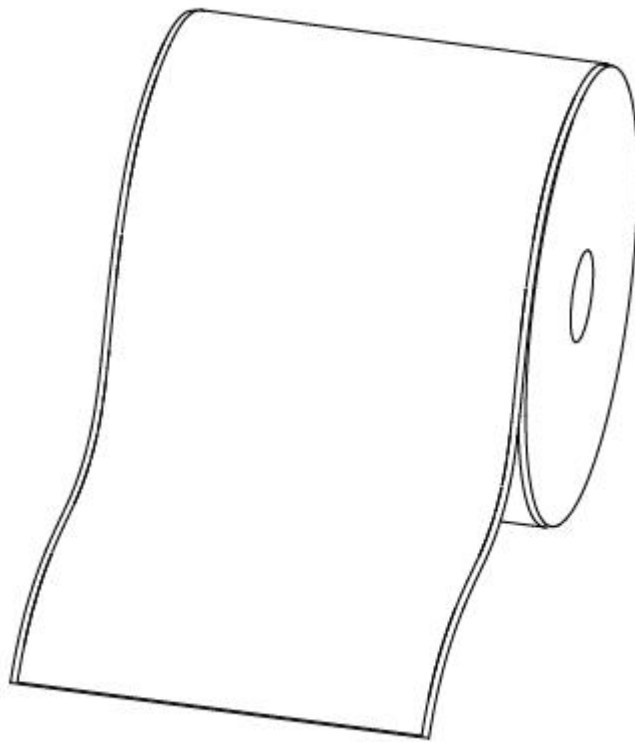


Figure 1 (Continuous Paper)

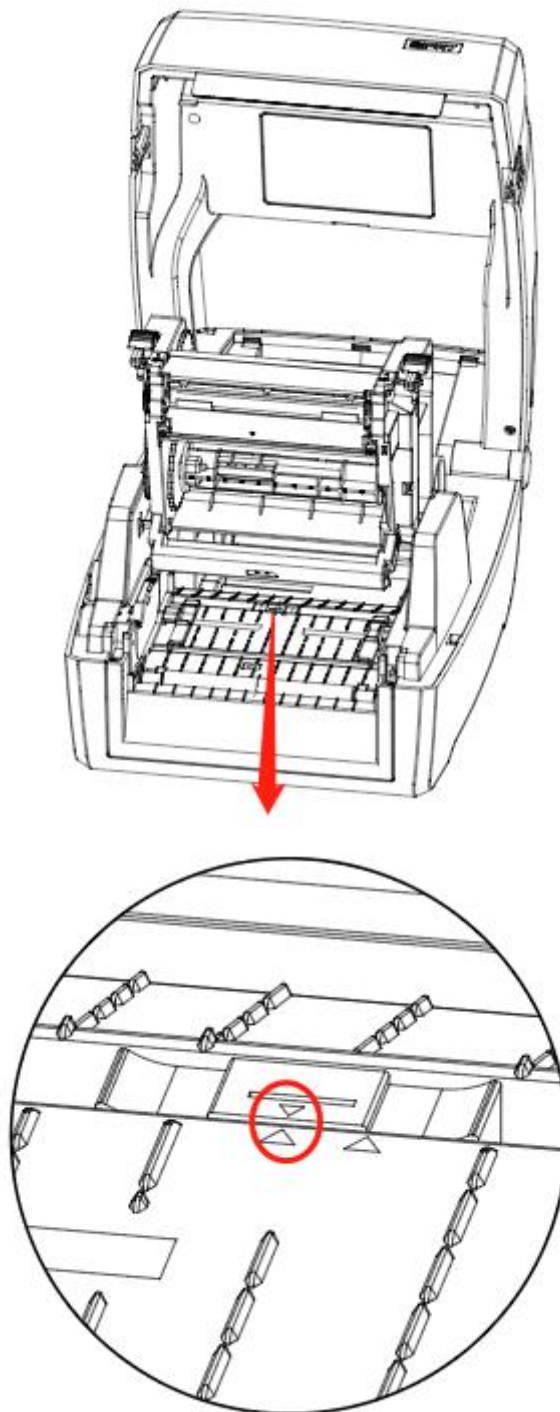


Figure 2 (Left)

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.

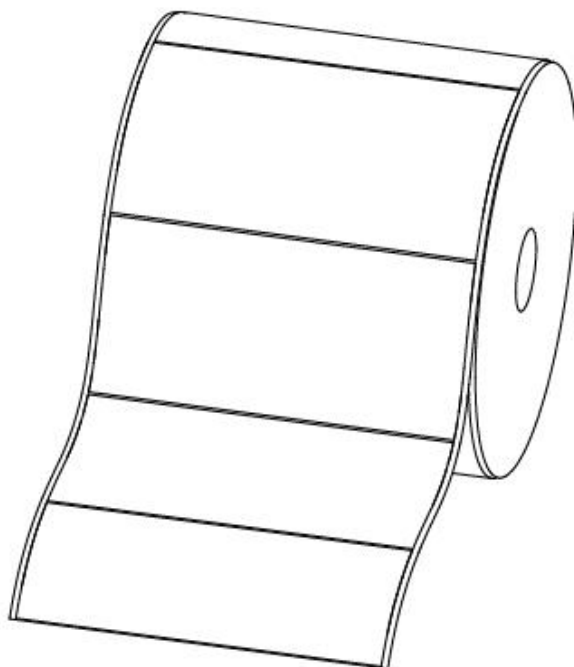


Figure 3 (Labels)

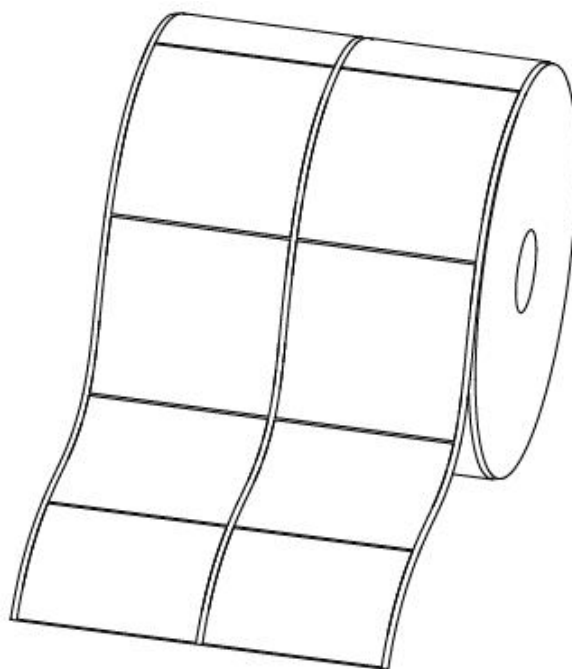


Figure 4 (Double-row Labels)

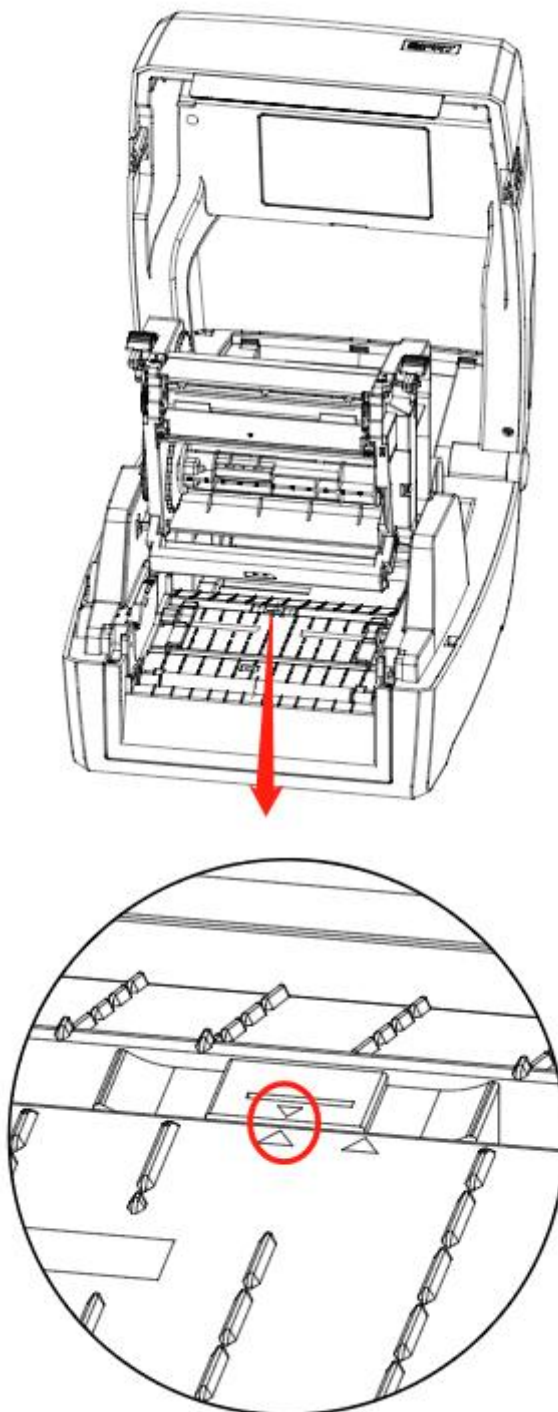


Figure 5 (Left)

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).

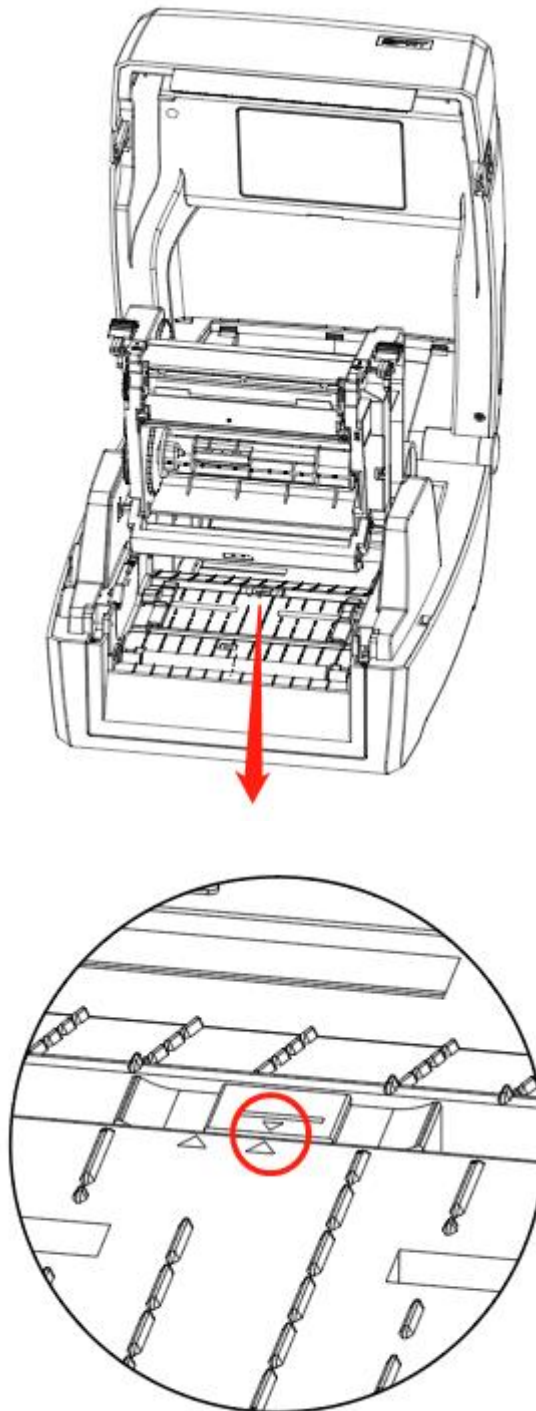


Figure 6 (Right)

3.4.4 Blackmark Paper

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

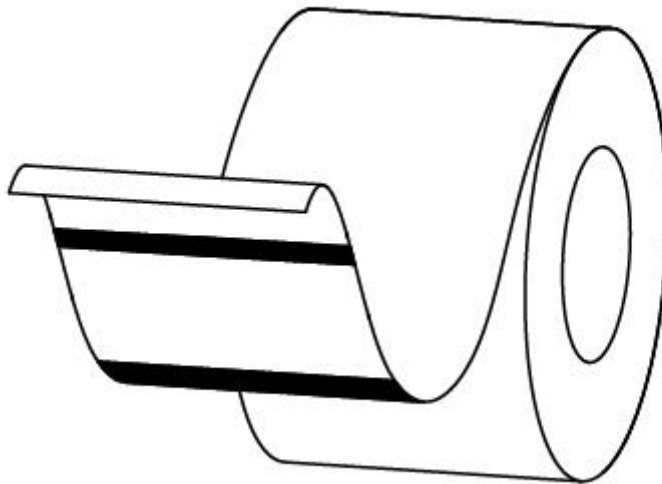


Figure 7 (Blackmark Paper)

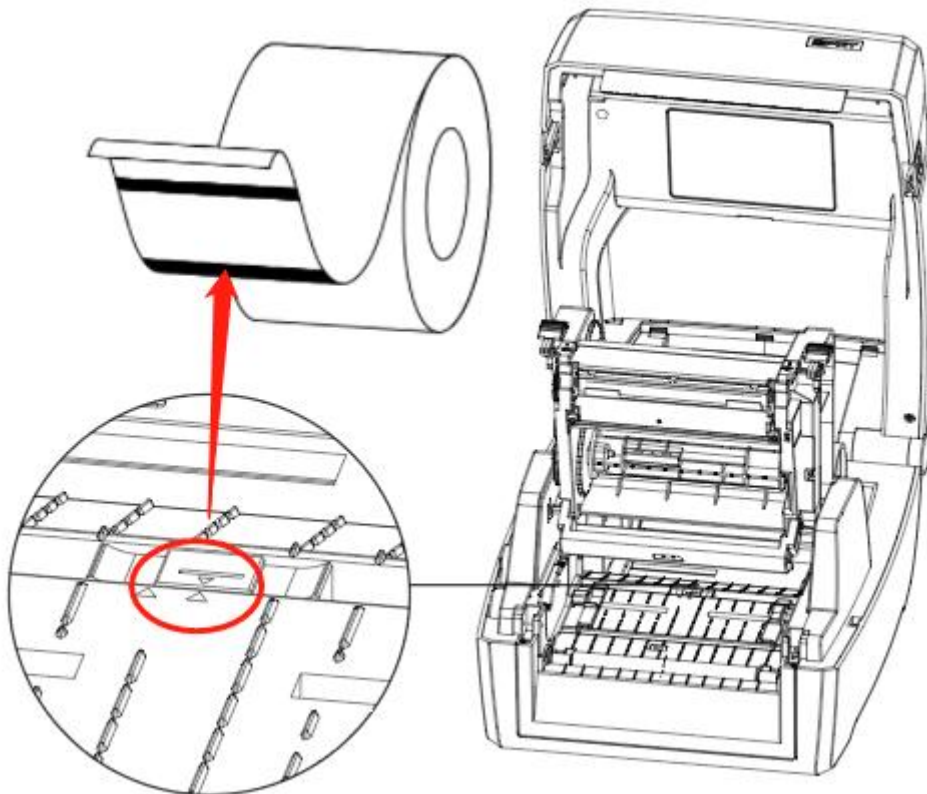


Figure 8 (aimed at blackmark's position)

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

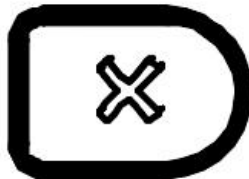


Much more detailed information is provided in "3.6.2 FEED Button".

3.Pause Button



4.Cancel 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.

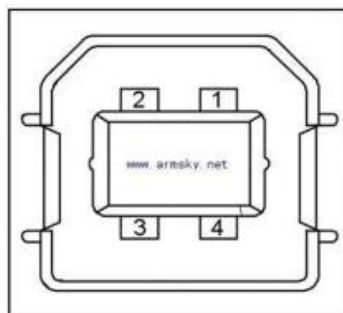
3.Printing by BarTender Ultralite Program

- 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

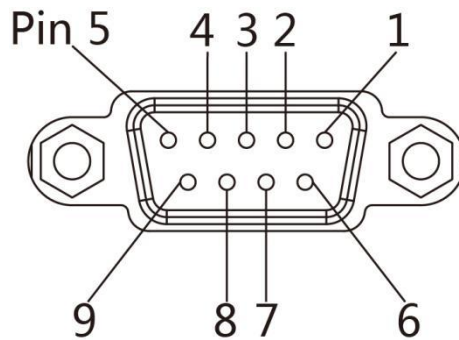
1.USB (Type B)



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

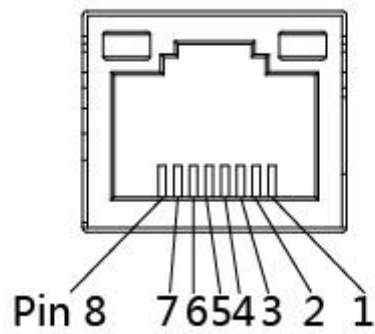
4.2 Other Optional Interfaces

■ 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. eg: SPENTAUtility.exe

6.2 Usage



Note: The screen may vary slightly by different operating systems and models.

1. Install "SPENTAUtility.exe", then open it.

Printer Utility V1.0.0.14

Settings Fonts Storage Function Test Command Test Firmware System

Interface Printer: SPR-400T USB [to Configure USB Port]

Printer Information

Version: V20.00.6

Serial Number: []

Cutting Counter: []

Mileage: [] m

Get Printer Information

Printer Status

Get Status

Common Common ZPL DPL RS-232 Bluetooth Ethernet WIFI Smart print variables Other 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

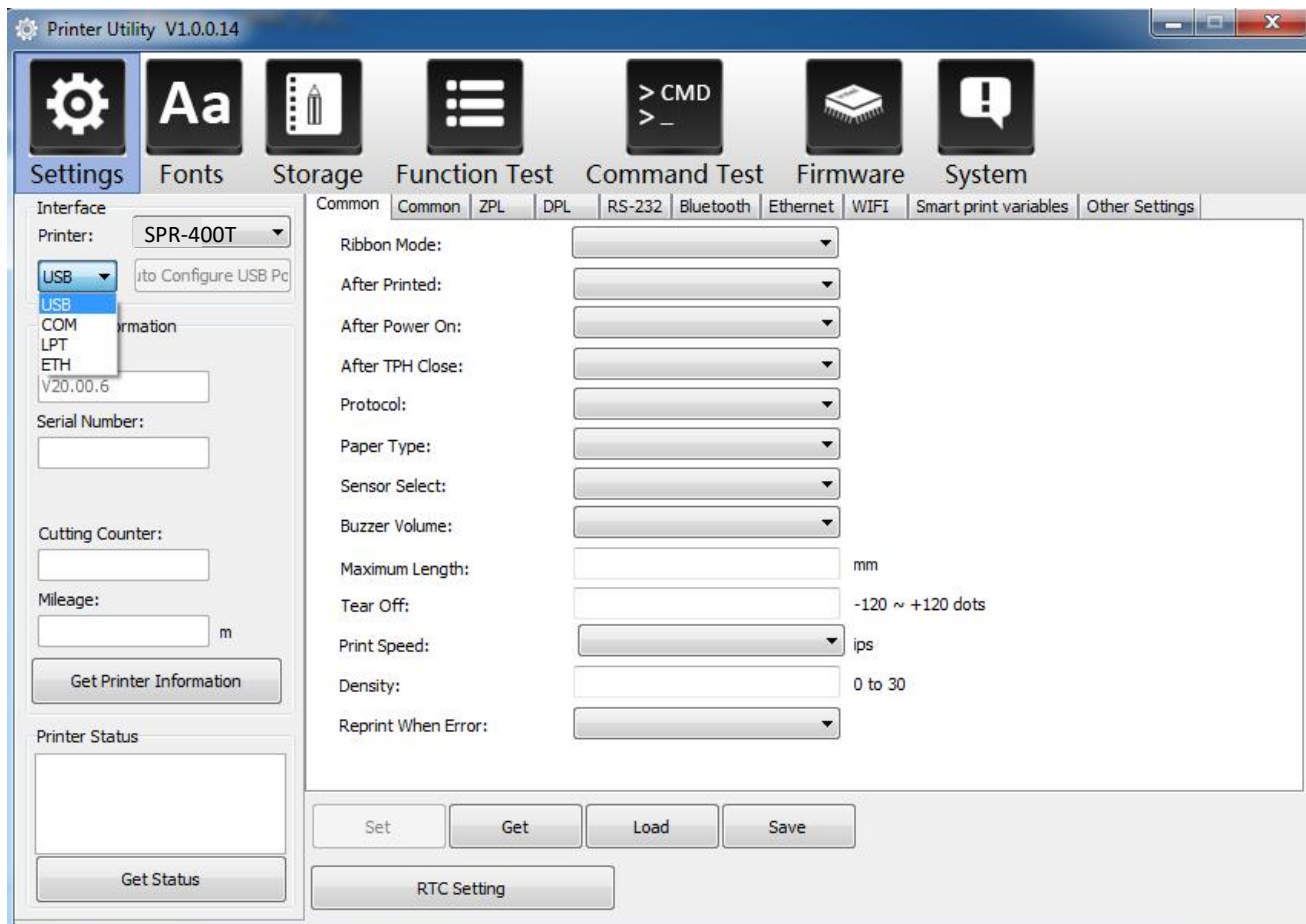
Reprint When Error: []

Set Get Load Save

RTC Setting

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.

Printer Utility V1.0.0.14

Settings Fonts Storage Function Test Command Test Firmware System

Interface
Printer: SPR-400T
USB [Go to Configure USB Pc]

Printer Information

Version: V20.00.6

Serial Number: XXXXX

Cutting Counter: 0

Mileage: 34.33 m

Get Printer Information

Printer Status

Get Status

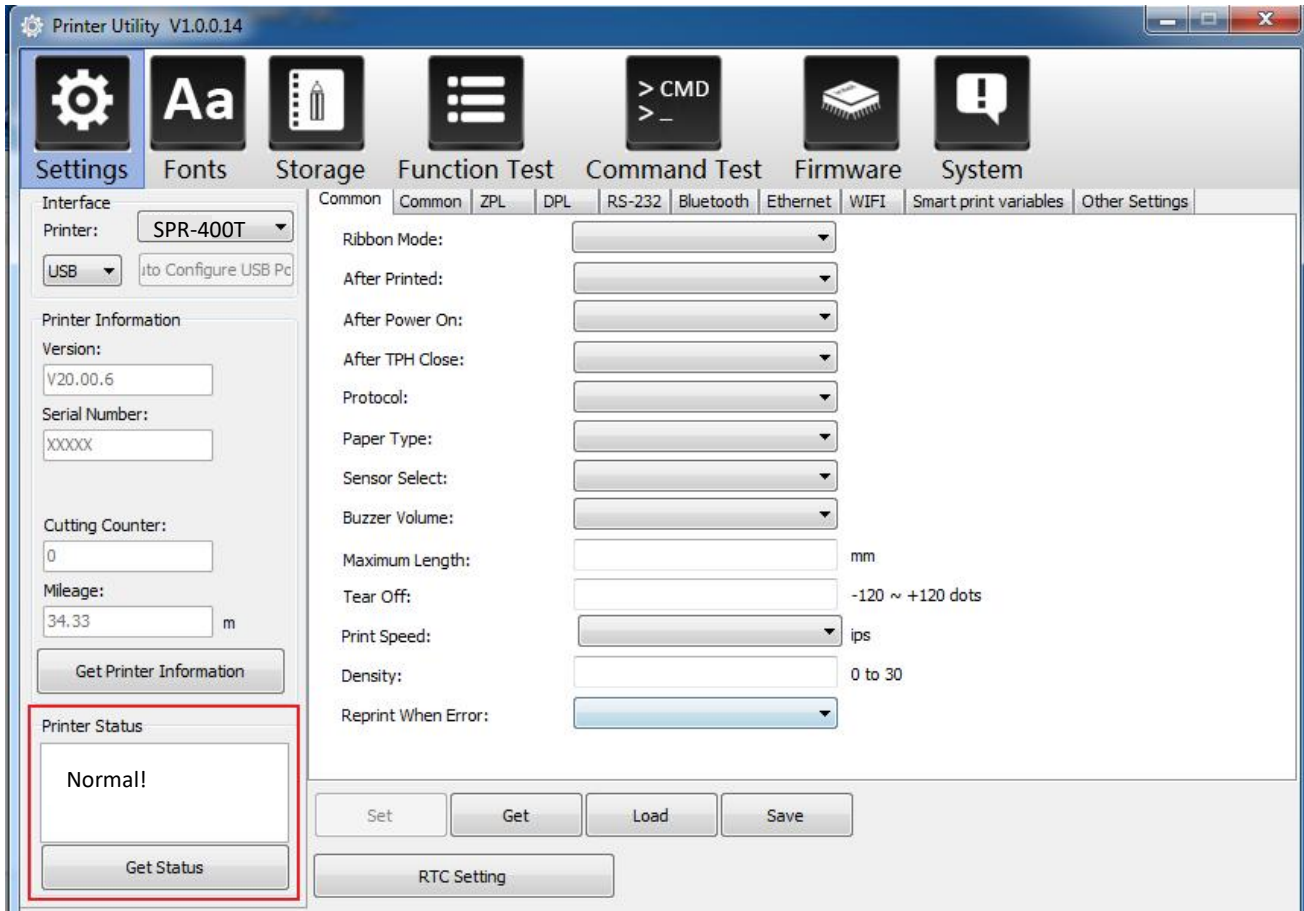
Common Common ZPL DPL RS-232 Bluetooth Ethernet WIFI Smart print variables Other Settings

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: [Text] mm
Tear Off: [Text] -120 ~ +120 dots
Print Speed: [Dropdown] ips
Density: [Text] 0 to 30
Reprint When Error: [Dropdown]

Set Get Load Save

RTC Setting

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

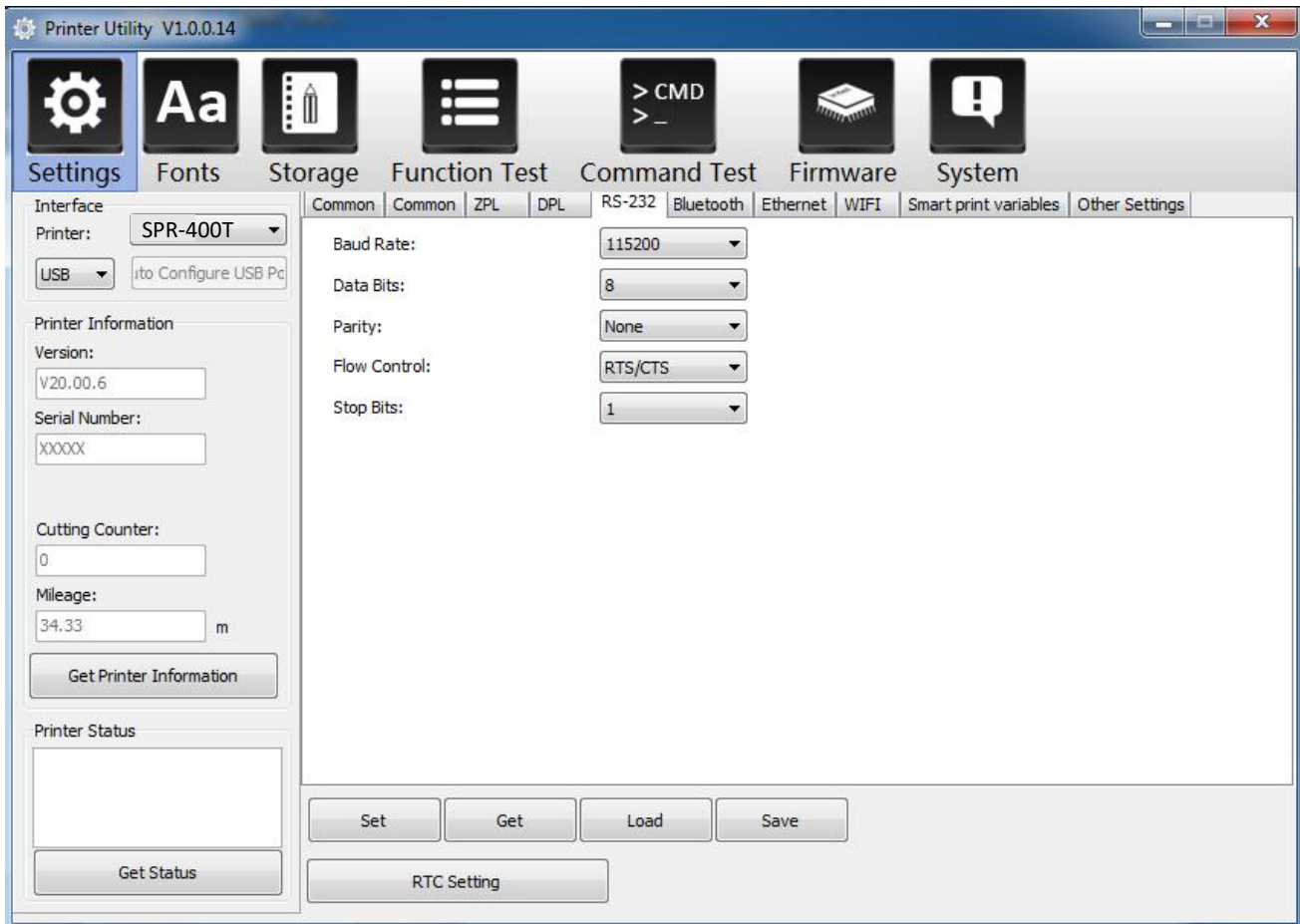


(4) Choose “Common” and click “Get”. In this menu, user can get the information the protocol, media sensor, speed, density and so on.

The screenshot displays the 'Printer Utility V1.0.0.14' window. The interface includes a top navigation bar with icons for Settings, Fonts, Storage, Function Test, Command Test, Firmware, and System. Below this, a sub-menu bar shows 'Common', 'ZPL', 'DPL', 'RS-232', 'Bluetooth', 'Ethernet', 'WIFI', 'Smart print variables', and 'Other Settings'. The 'Common' tab is active, showing various settings for the 'SPR-400T' printer. On the left, there's a sidebar with 'Interface' (Printer: SPR-400T, USB), 'Printer Information' (Version: V20.00.6, Serial Number: XXXXX), 'Cutting Counter' (0), 'Mileage' (34.33 m), and 'Printer Status'. The main area contains settings for Ribbon Mode (OFF), After Printed (Tear off), After Power On (None), After TPH Close (None), Protocol (ZPL), Paper Type (Gap), Sensor Select (Transmissive), Buzzer Volume (Standard), Maximum Length (220 mm), Tear Off (0, -120 ~ +120 dots), Print Speed (5 ips), Density (15, 0 to 30), and Reprint When Error (ON). At the bottom, there are buttons for 'Set', 'Get', 'Load', 'Save', and 'RTC Setting'.

Interface	Printer	Common	Common	ZPL	DPL	RS-232	Bluetooth	Ethernet	WIFI	Smart print variables	Other Settings
Interface	SPR-400T										
Printer Information											
Version:	V20.00.6										
Serial Number:	XXXXX										
Cutting Counter:	0										
Mileage:	34.33 m										
Printer Status											

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



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

The screenshot shows the 'Printer Utility V1.0.0.14' window. The 'Settings' tab is active, and the 'Bluetooth' sub-tab is selected. The interface includes a top menu bar with icons for Settings, Fonts, Storage, Function Test, Command Test, Firmware, and System. Below this is a sub-menu bar with tabs for Common, ZPL, DPL, RS-232, Bluetooth, Ethernet, WIFI, Smart print variables, and Other Settings. The main area contains fields for Bluetooth Name (set to 'SPR-400T'), Password (set to '0000'), and Mac address (displayed as six '00' boxes). On the left, there is a 'Printer Information' section with fields for Version (V20.00.6), Serial Number (XXXXXX), Cutting Counter (0), and Mileage (34.33 m), along with a 'Get Printer Information' button. Below that is a 'Printer Status' section with a 'Get Status' button. At the bottom, there are buttons for 'Set', 'Get', 'Load', 'Save', and 'RTC Setting'.

Printer Utility V1.0.0.14

Settings Fonts Storage Function Test Command Test Firmware System

Interface
Printer: SPR-400T
USB [ito Configure USB Port]

Printer Information
Version: V20.00.6
Serial Number: XXXXXX
Cutting Counter: 0
Mileage: 34.33 m
Get Printer Information

Printer Status
Get Status

Common Common ZPL DPL RS-232 Bluetooth Ethernet WIFI Smart print variables Other Settings

Bluetooth Name: SPR-400T (<=16 characters)
Password: 0000 (4 characters)
Mac address: 00 : 00 : 00 : 00 : 00 : 00

Set Get Load Save
RTC Setting

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

The screenshot displays the 'Printer Utility V1.0.0.14' application window. The interface includes a top navigation bar with icons for Settings, Fonts, Storage, Function Test, Command Test, Firmware, and System. Below this is a sub-menu bar with tabs for Common, Common, ZPL, DPL, RS-232, Bluetooth, Ethernet, WIFI, Smart print variables, and Other Settings. The 'Ethernet' tab is currently selected.

On the left side, there is a sidebar with the following sections:

- Interface:** Printer: SPR-400T, USB (selected), and a button 'Go to Configure USB Pc'.
- Printer Information:** Version: V20.00.6, Serial Number: XXXXX, Cutting Counter: 0, Mileage: 34.33 m, and a 'Get Printer Information' button.
- Printer Status:** A placeholder box and a 'Get Status' button.

The main area of the 'Ethernet' tab contains the following settings:

- DHCP:** A dropdown menu set to 'ON'.
- IP Address:** Four input fields, each containing '0'.
- Subnet Mask:** Four input fields, each containing '0'.
- Default Gateway:** Four input fields, each containing '0'.
- Mac address:** Six input fields containing '12', '23', '45', '78', 'A0', and '15' respectively, separated by colons.

At the bottom of the window, there are four buttons: 'Set', 'Get', 'Load', and 'Save'. Below these is a button labeled 'RTC Setting'.

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

The screenshot displays the 'Printer Utility V1.0.0.14' application window. The 'Settings' tab is active, and the 'WIFI' sub-tab is selected. The interface includes a top menu bar with icons for Settings, Fonts, Storage, Function Test, Command Test, Firmware, and System. On the left, there is a sidebar with 'Interface' (Printer: SPR-400T, USB), 'Printer Information' (Version: V20.00.6, Serial Number: XXXXX, Cutting Counter: 0, Mileage: 34.33 m), and 'Printer Status'. The main area shows the 'WIFI' configuration with fields for SSID (SPR-400T), Password (12345678), Work Mode (AP), DHCP (ON), IP Address (172.168.1.1), Subnet Mask (255.255.255.0), Default Gateway (172.168.1.1), and Mac address (00:00:00:00:00:00). At the bottom, there are buttons for 'Set', 'Get', 'Load', 'Save', and 'RTC Setting'.

Printer Utility V1.0.0.14

Settings Fonts Storage Function Test Command Test Firmware System

Interface
Printer: SPR-400T
USB [Configure USB Port]

Printer Information
Version: V20.00.6
Serial Number: XXXXX
Cutting Counter: 0
Mileage: 34.33 m
Get Printer Information

Printer Status
Get Status

Common Common ZPL DPL RS-232 Bluetooth Ethernet WIFI Smart print variables Other Settings

SSID: SPR-400T
Password: 12345678
Work Mode: AP
DHCP: ON
IP Address: 172 168 1 1
Subnet Mask: 255 255 255 0
Default Gateway: 172 168 1 1
Mac address: 00 : 00 : 00 : 00 : 00 : 00

Set Get Load Save
RTC Setting

(9) Click “RTC Setting”. Click “Get System Date Time” to get the values, and click “Setup” to save them. Then click “Close”, and back to the main menu.

RTC Setup

Year: 2022

Month: 12

Date: 5

Hour: 15

Minute: 11

Second: 26

Get System DateTime

Get

Setup

Close



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.

Printer Utility V1.0.0.14

Settings Fonts Storage Function Test Command Test Firmware System

Interface Printer: SPR-400T

USB [ito Configure USB Pc]

Printer Information

Version: V20.00.6

Serial Number: XXXXX

Cutting Counter: 0

Mileage: 34.33 m

Get Printer Information

Printer Status

Get Status

Common Common ZPL DPL RS-232 Bluetooth Ethernet WIFI Smart print variables Other Settings

SSID: SPR-400T

Password: 12345678

Work Mode: AP

DHCP: ON

IP Address: 172 168 1 1

Subnet Mask: 255 255 255 0

Default Gateway: 172 168 1 1

Mac address: 00 : 00 : 00 : 00 : 00 : 00

① Set ② Get Load Save

RTC Setting

3. Click "Storage" to print image.

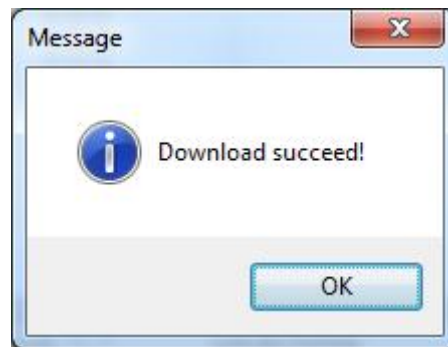
The screenshot shows the 'Download File' section at the top with a 'File Type' dropdown set to 'Graphics' and a 'Magnification' dropdown set to '1.0'. Below these is a 'File Name' input field followed by a button with three dots and a 'Download' button. A status bar indicates 'Free space: 119,401,472B; Uses space 286,790,656B.' Below this are three panels: 'Graphics', 'Label Form', and 'Auto Label Form'. Each panel contains a large empty box and a set of buttons: 'List All Graphics', 'Print Selected Graphic', 'Delete Selected Graphic', and 'Delete All Graphics' for the Graphics panel; 'List All Forms', 'Print Selected Form', 'Delete Selected Form', and 'Delete All Forms' for the Label Form panel; and 'List Auto Form', 'Print Auto Form', 'Delete Auto Form', and 'Enable Auto Form' for the Auto Label Form panel.

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

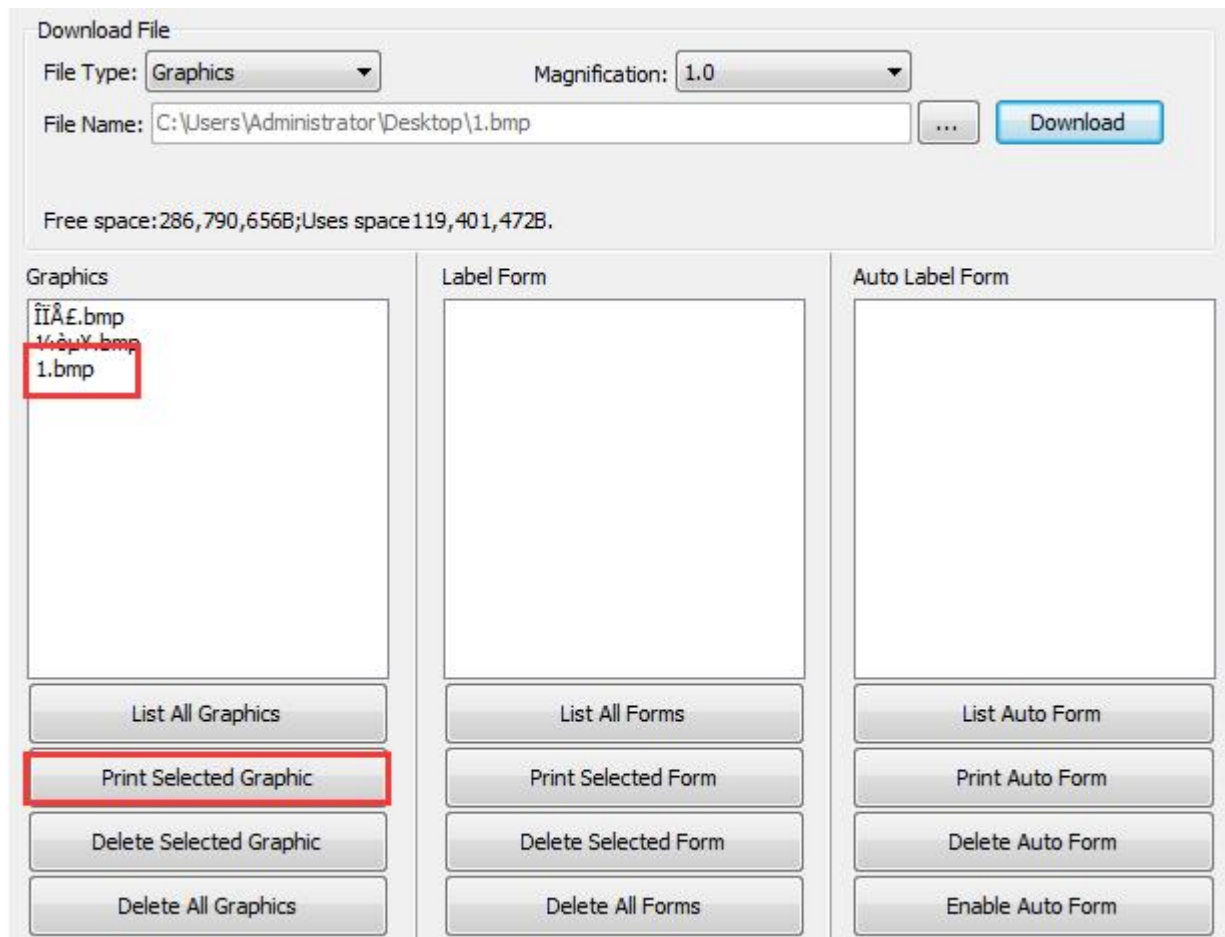
This is a close-up of the 'Download File' section. It shows the 'File Type' dropdown set to 'Graphics' and the 'Magnification' dropdown set to '1.0'. The 'File Name' input field is empty. To the right of the input field is a button with three dots, which is highlighted with a red box, and a 'Download' button to its right. The status bar at the bottom shows '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.

Download File

File Type: Graphics Magnification: 1.0

File Name: C:\Users\Administrator\Desktop\1.bmp

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

1.0
1.5
2.0
2.5
3.0

Download

Graphics

11Å£.bmp
¼øµ¥.bmp
1.bmp

List All Graphics

Print Selected Graphic

Delete Selected Graphic

Delete All Graphics

Label Form

List All Forms

Print Selected Form

Delete Selected Form

Delete All Forms

Auto Label Form

List Auto Form

Print Auto Form

Delete Auto Form

Enable Auto Form

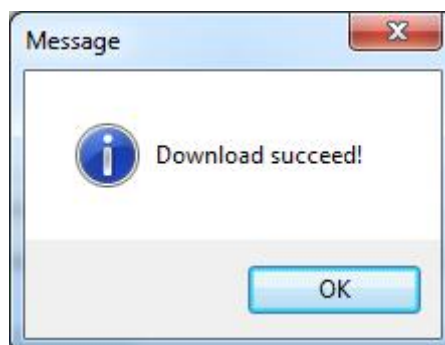
4. Click "Download Vector fonts".

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

The screenshot shows a web interface for font management. At the top, there is a 'Storage:' dropdown menu set to 'FLASH' and a 'Select Font:' text input field. To the right of the input field is a button with three dots, which is highlighted with a red box. Next to it is a 'Download' button. Below this, a status bar indicates 'Free space: 119,401,472B; Uses spaceB.'. The main area is divided into two sections. The left section contains a table with two columns: 'Storage' and 'Fonts File Name'. The table is currently empty. Below the table are two buttons: 'Delete' and 'Delete All Fonts'. The right section has a text input area labeled 'Input test text: (Length < 256)' and a 'Print Text' button.

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

This screenshot shows the same interface as the previous one, but with the 'Select Font' field now containing the path 'C:\Users\Administrator\Desktop\Fonts\Fonts\CYR.ttf'. The 'Download' button is highlighted with a red box. Below the input field, a progress bar is shown with the text 'Downloading: 167 KB/733KB.' and a green bar indicating the progress. The status bar at the bottom shows 'Free space: 2,048,000B; Uses space 24,576B.'



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

Storage: FLASH Select Font: C:\Users\Administrator\Desktop\Fonts\Fonts\cour.ttf ... Download

Downloading: 788 KB/788KB.

Free space:1,069,056B;Uses space1,003,520B.

Storage	Fonts File Name
FLASH	COUR.TTF
FLASH	CYR.TTF

Input test text:(Length<256)

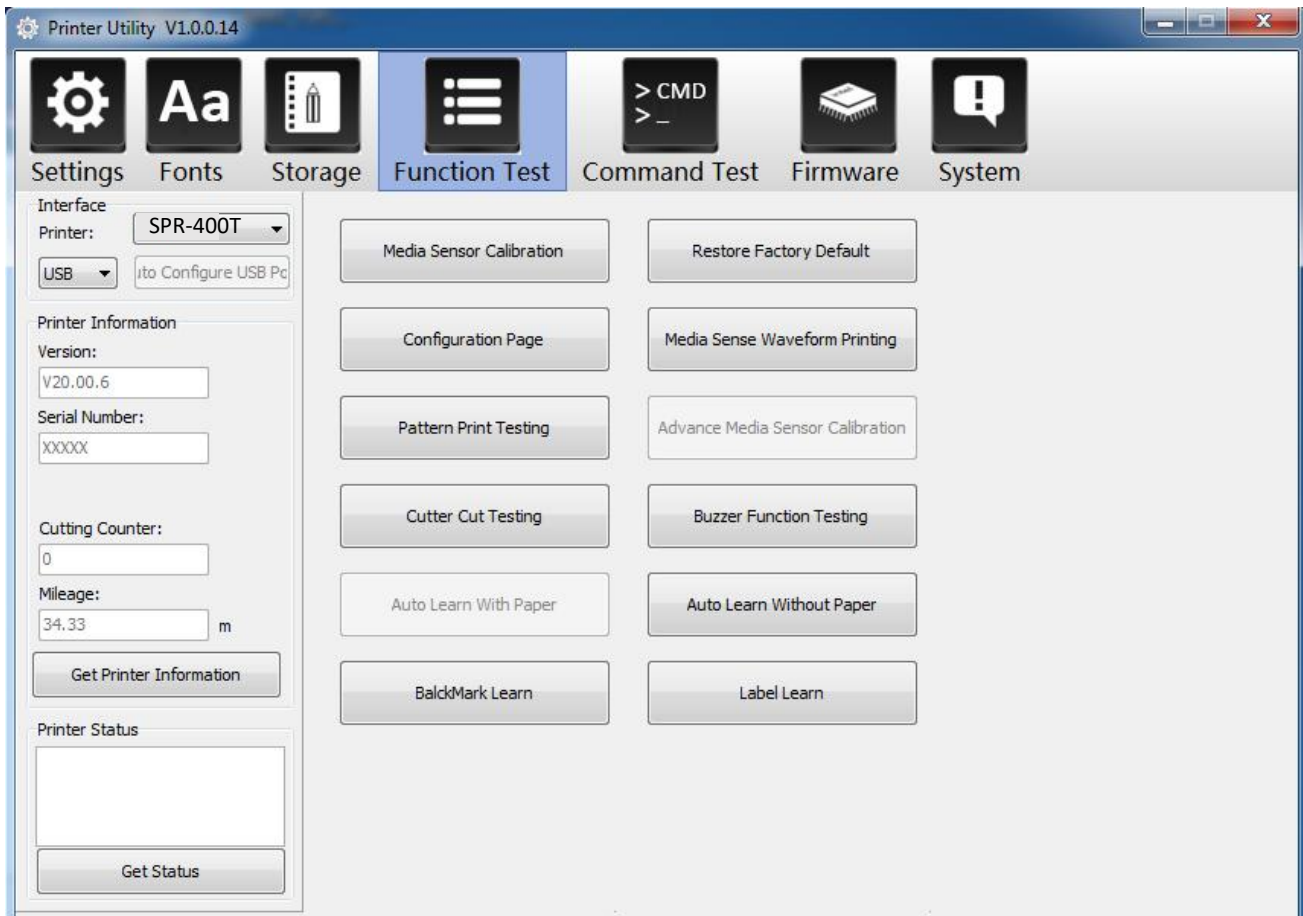
abc123

Printable Width: 30 (10-108)mm

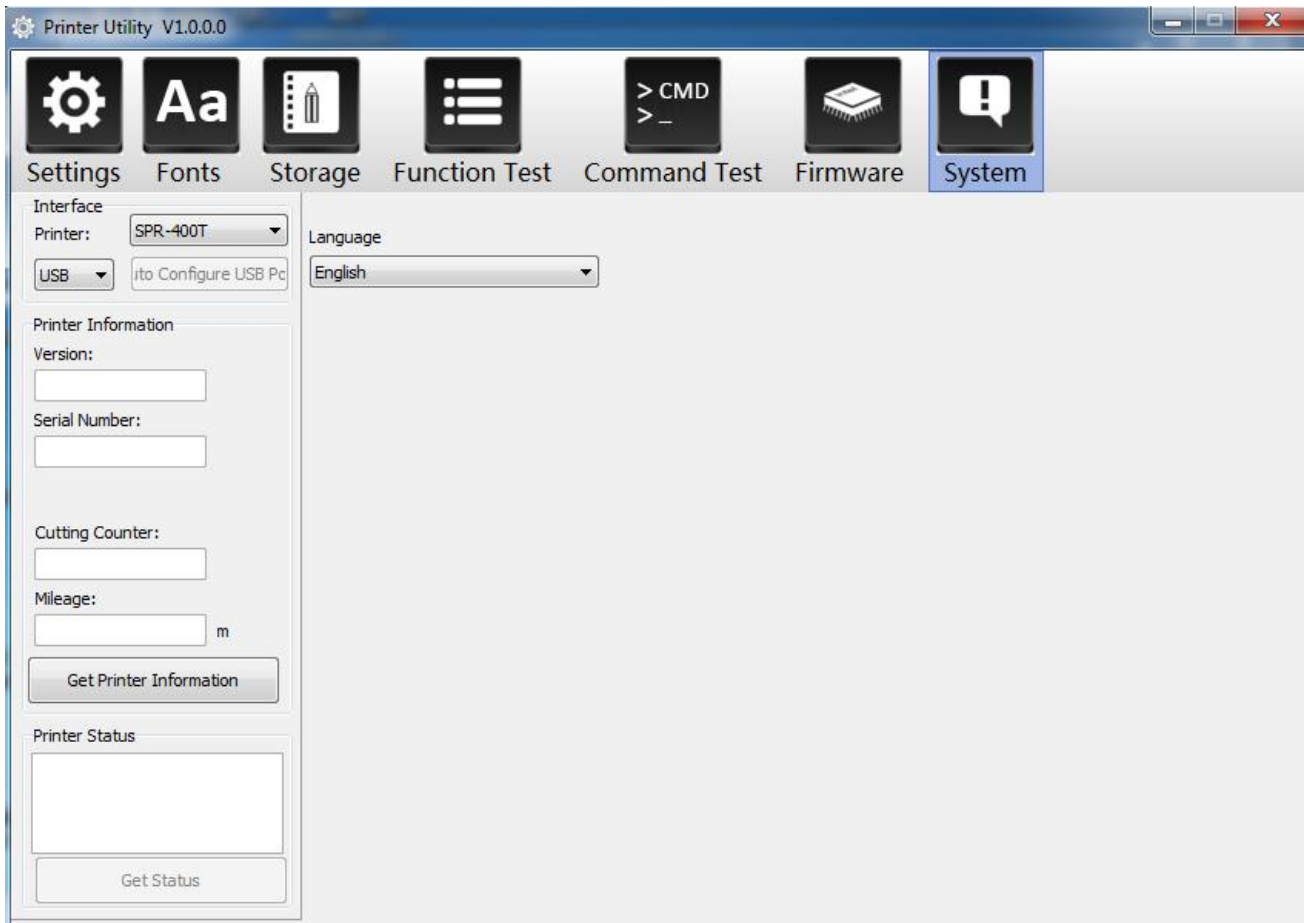
Printable Height: 30 (10-210)mm

Print Text

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 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 Windows Driver application program in CD.

7.3 Installation



Note:

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

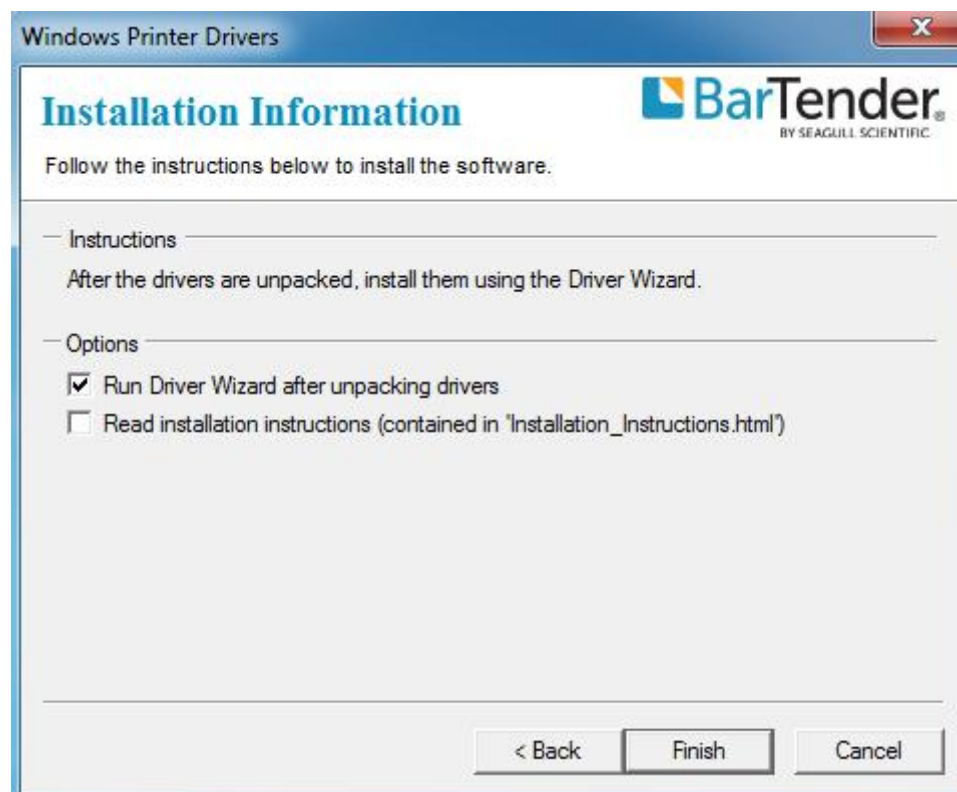
1. Select one interface to connect your printer to computer.
2. Turn on the printer and check if it is connected to computer successfully.
3. Double click Windows Driver.
4. Read and agree the license agreement. Then click "Next".



5. Choose Installation Directory, then click “Next”.



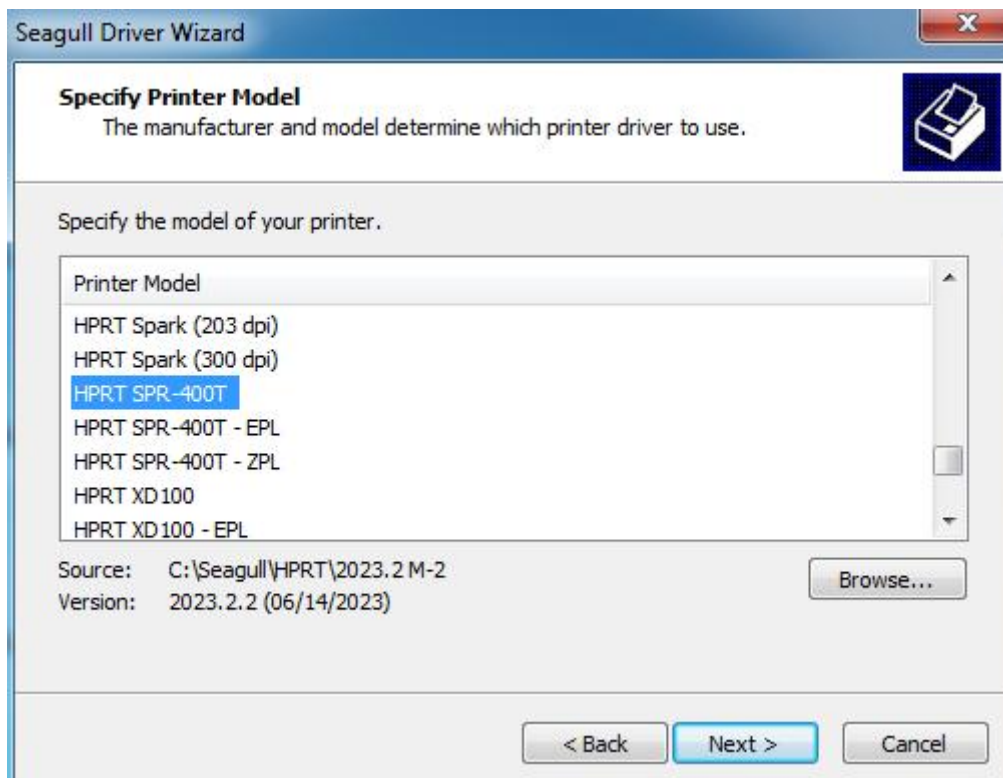
6. Click “Finish”.



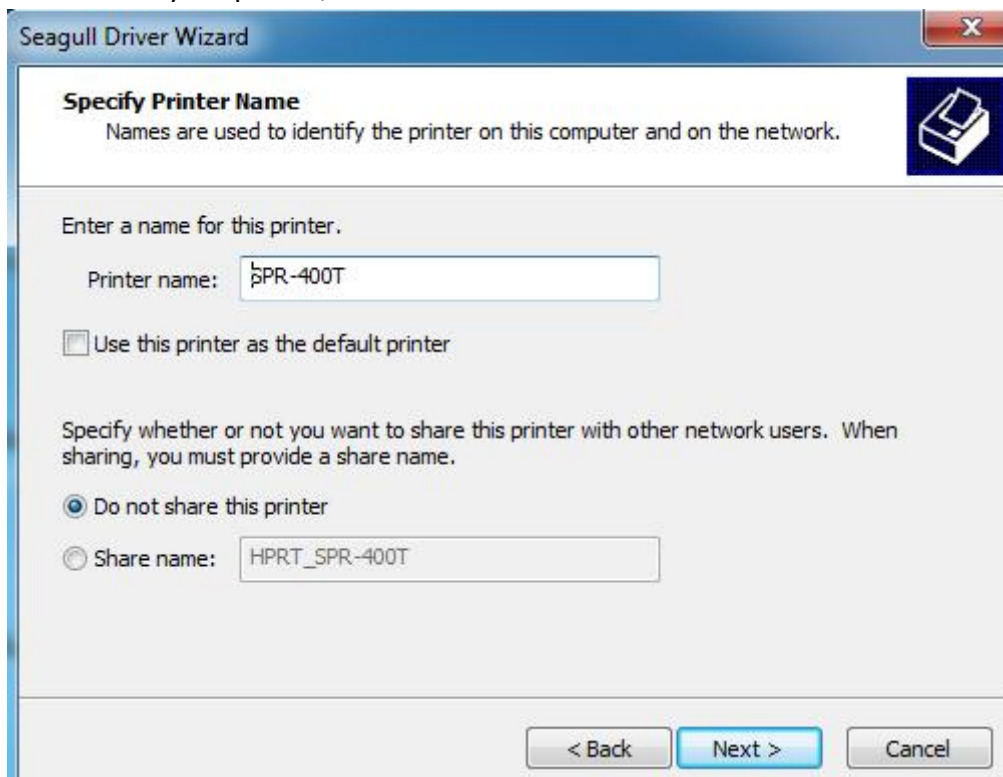
7. Choose "Install printer driver", then click "Next".



8. Specify the model of your printer, then click “Next”.



9. Specify the name of your printer, then click “Next”.



10. Click "Finish".



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

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



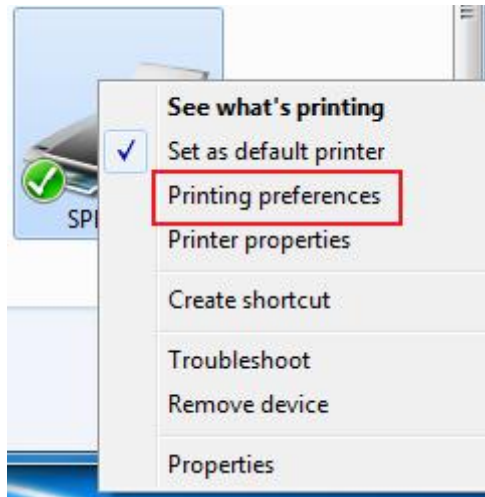
Note:

- 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.

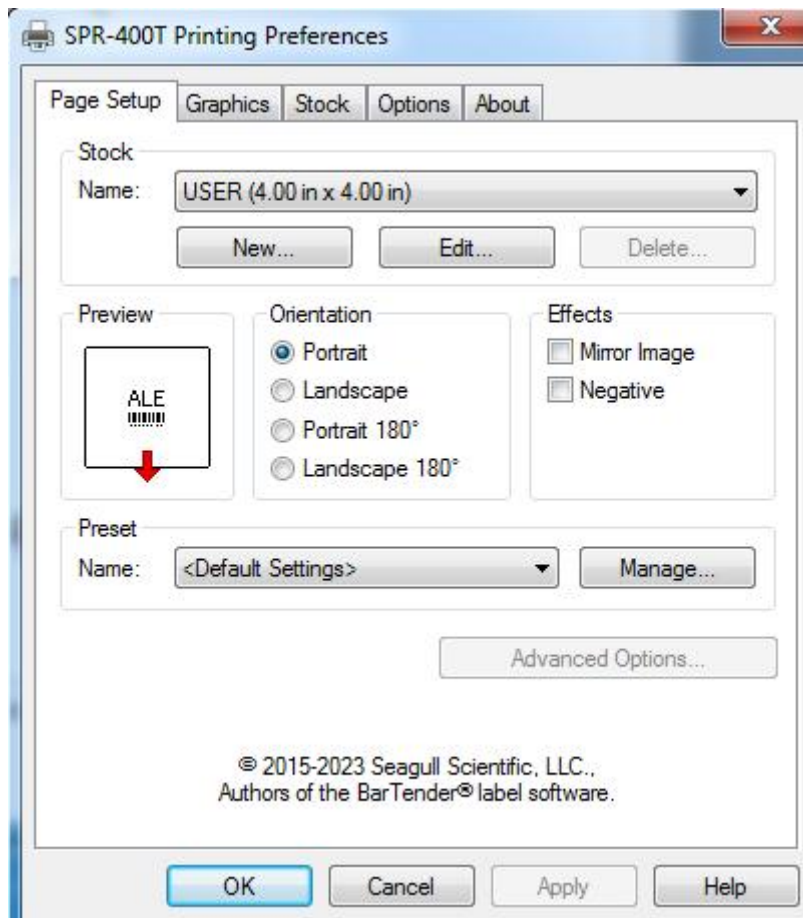
7.4 Usage

7.4.1 Printing Preferences

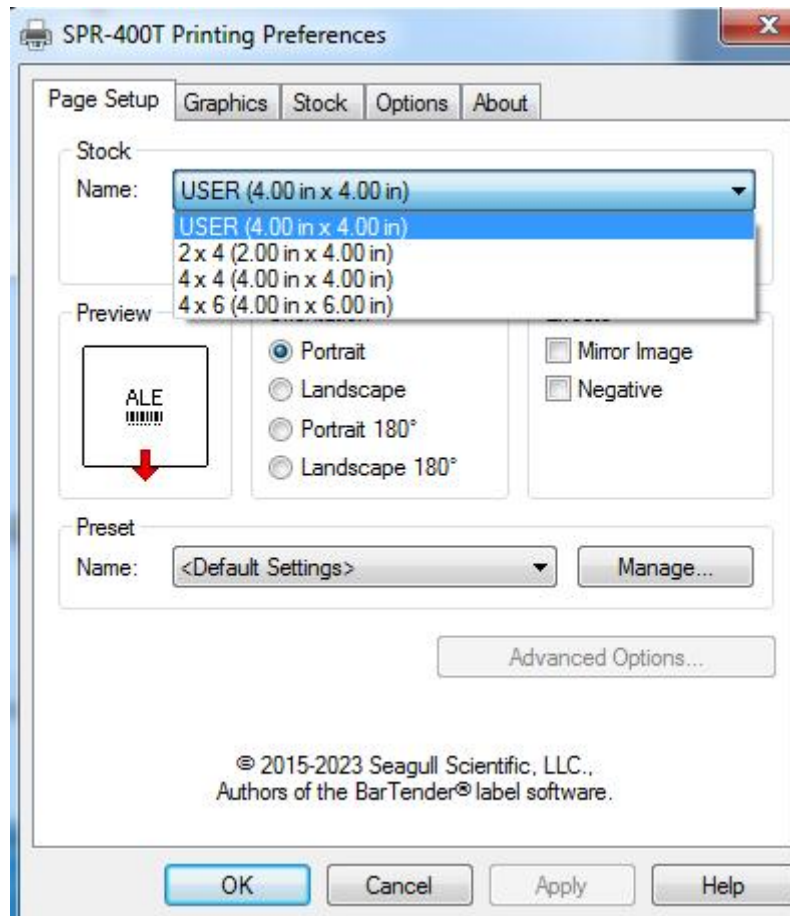
1. Click “Start” → “Devices and Printers”. Right click the icon and choose “Printing preferences”.



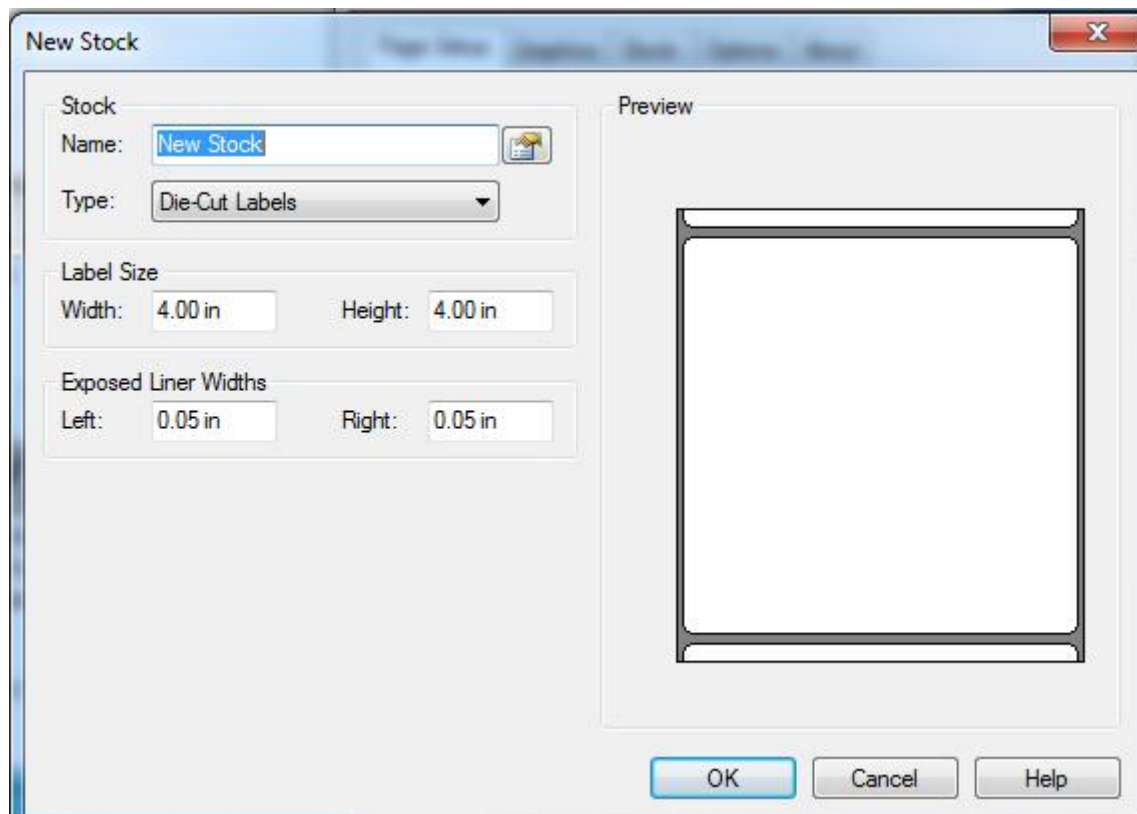
2. According to different needs, set up the page.



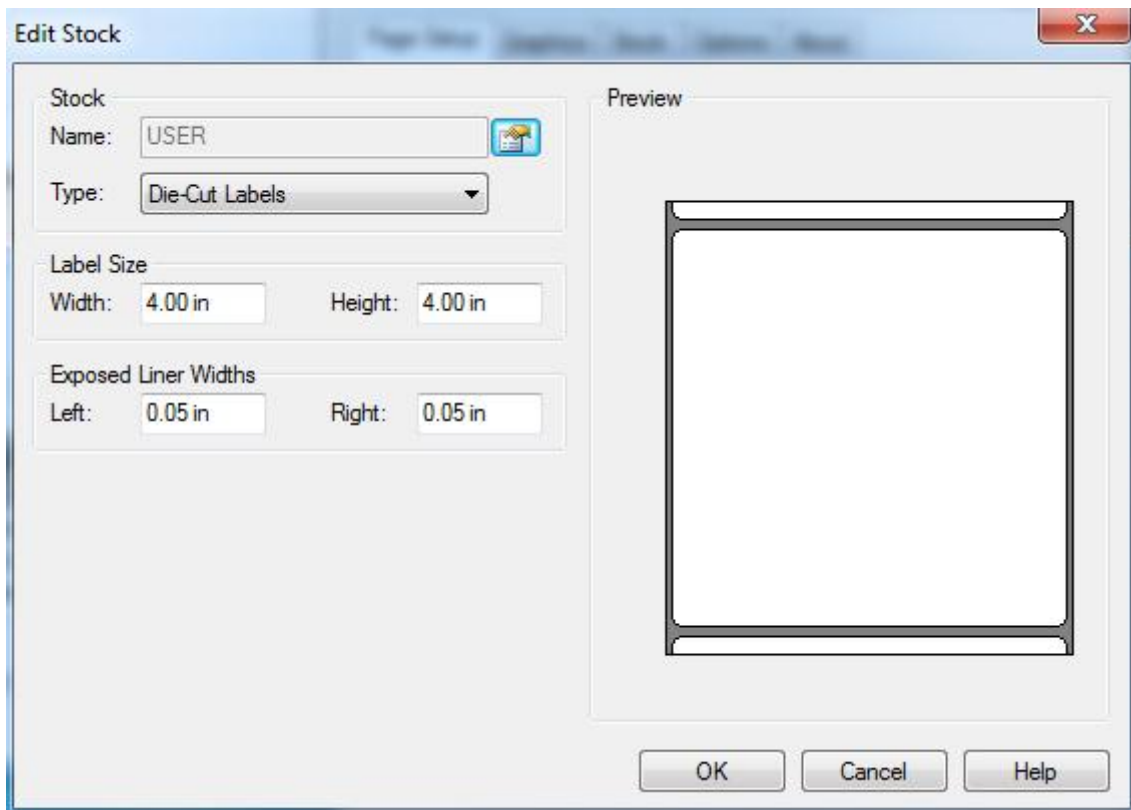
- Click “stock” → “Name”, and choose the paper type.



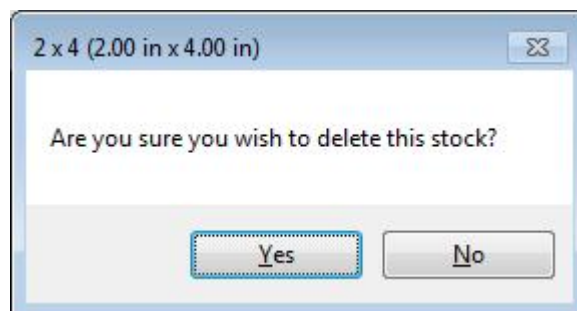
- Click “Custom” --> “New”, and set up a new stock.



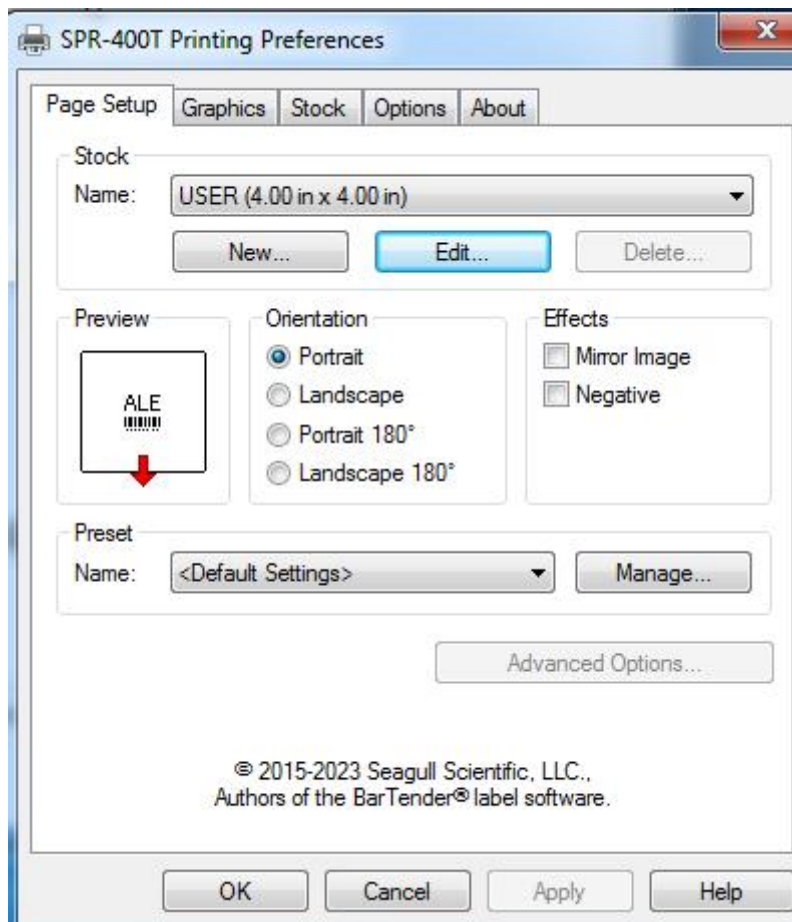
- Click “Edit”, and edit the stock.



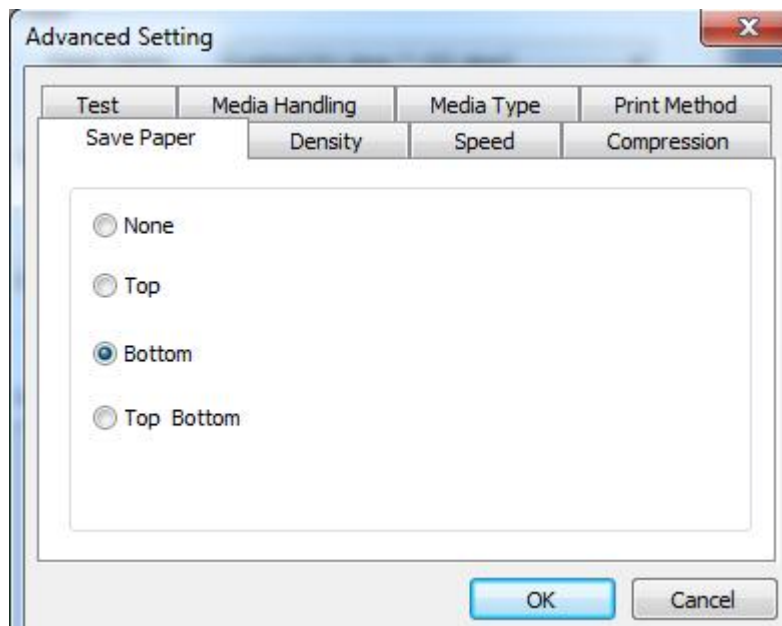
- Click “Delete”, and delete the stock.



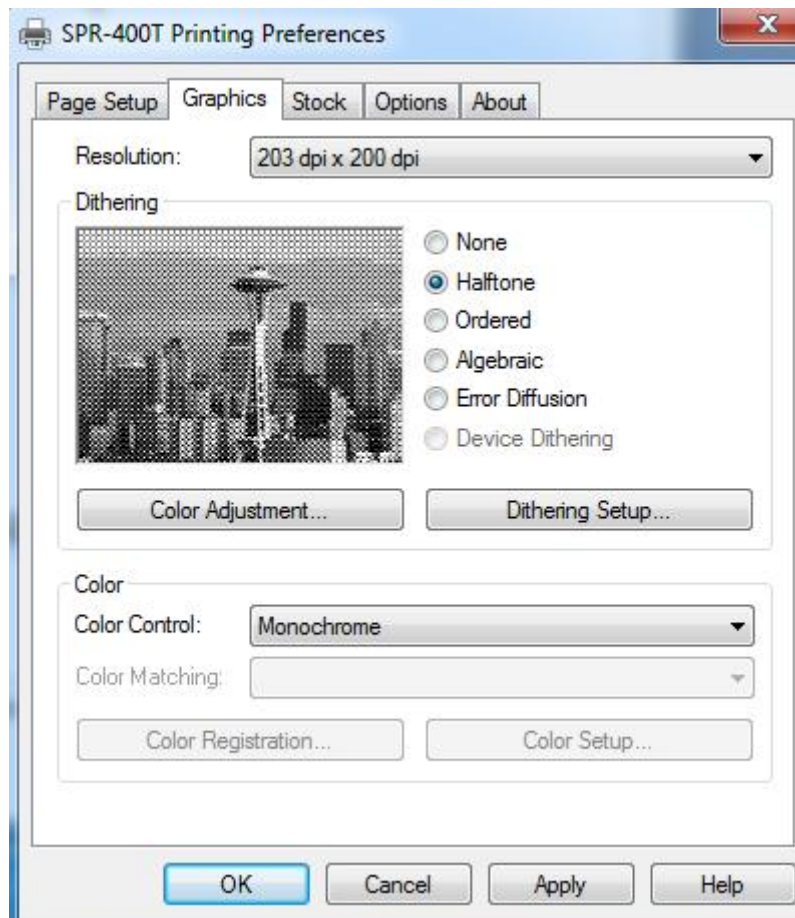
- Choose “Orientation” or “Effects”, showed in the “Preview”.



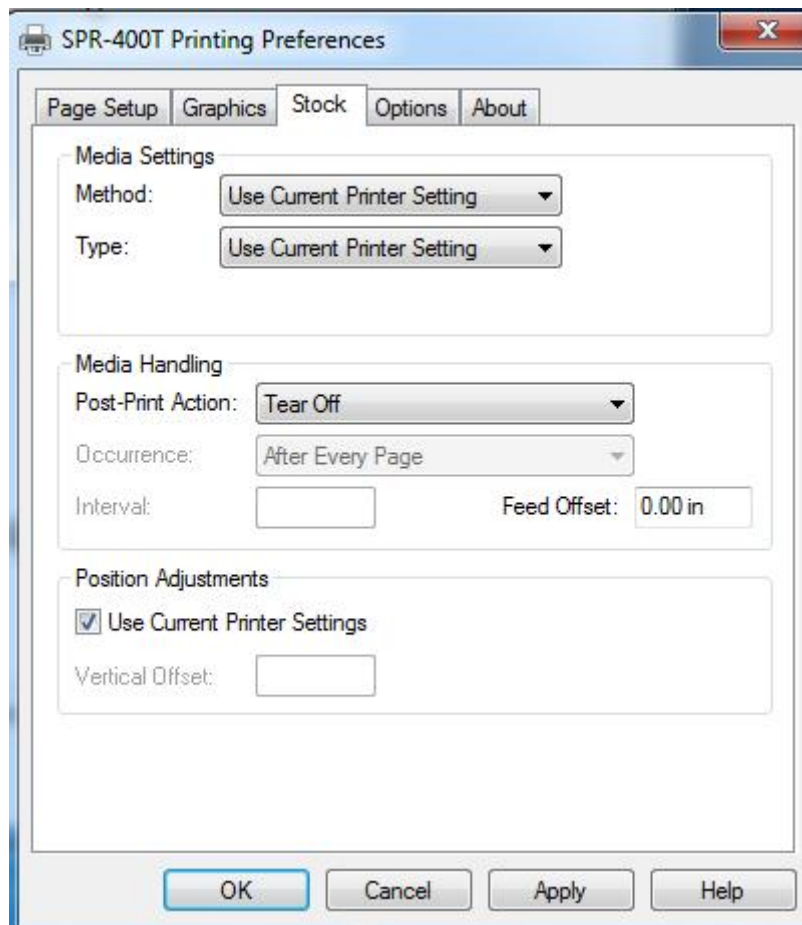
- Click “Advanced”, and change the settings.



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

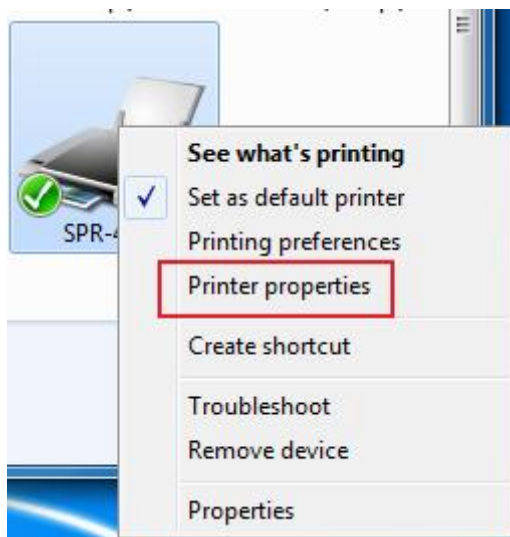


4. Click "Stock".

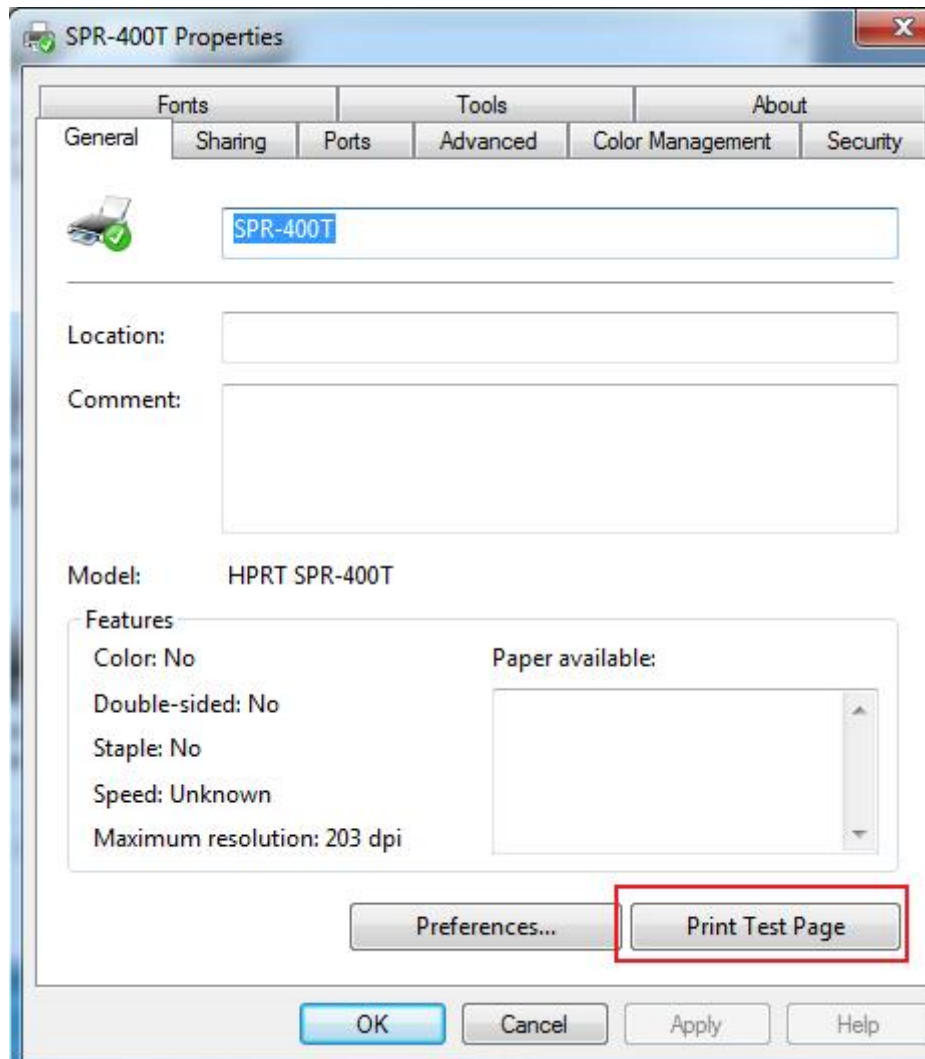


7.4.2 Printer Properties

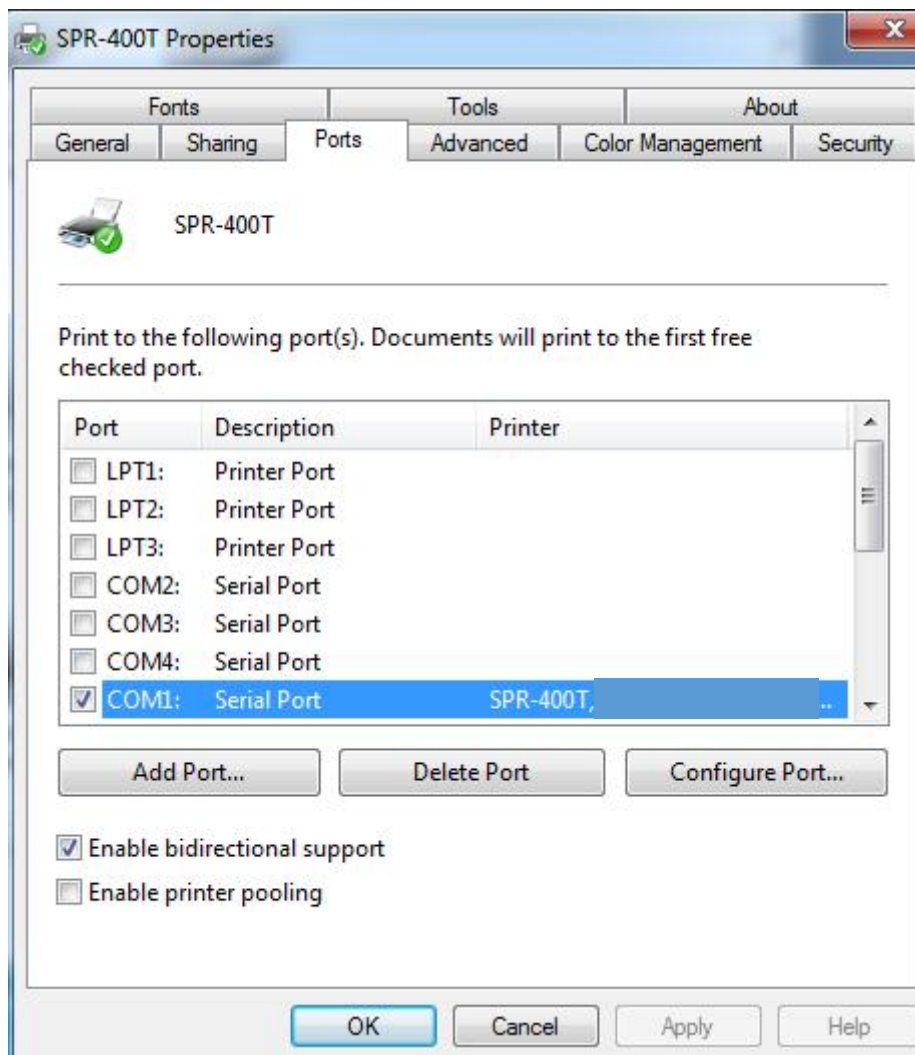
1. Click “Start” → “Devices and Printers”. Right click the icon and choose “Printer properties”.



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



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



7.5 Label's Width

USER(4.00 in x 4.00 in)

2x4(2.00 in x 4.00 in)

4x4(4.00 in x 4.00 in)

4x6(4.00 in x 6.00 in)

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:

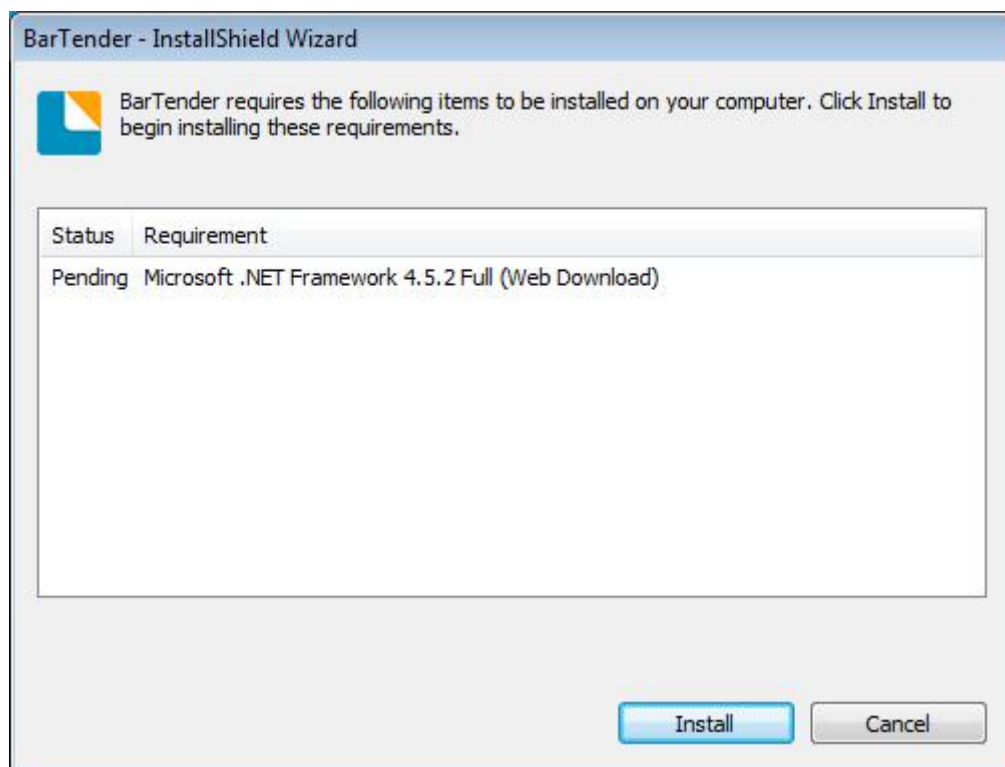
- Under different operating systems, the screen may be slightly different. Take Windows 7 as example.
- Take printer iT4E as example.
- To avoid the prevention, recommend to close the security software before installation.

1. Double click the application program .

2. Select language, then click "OK".



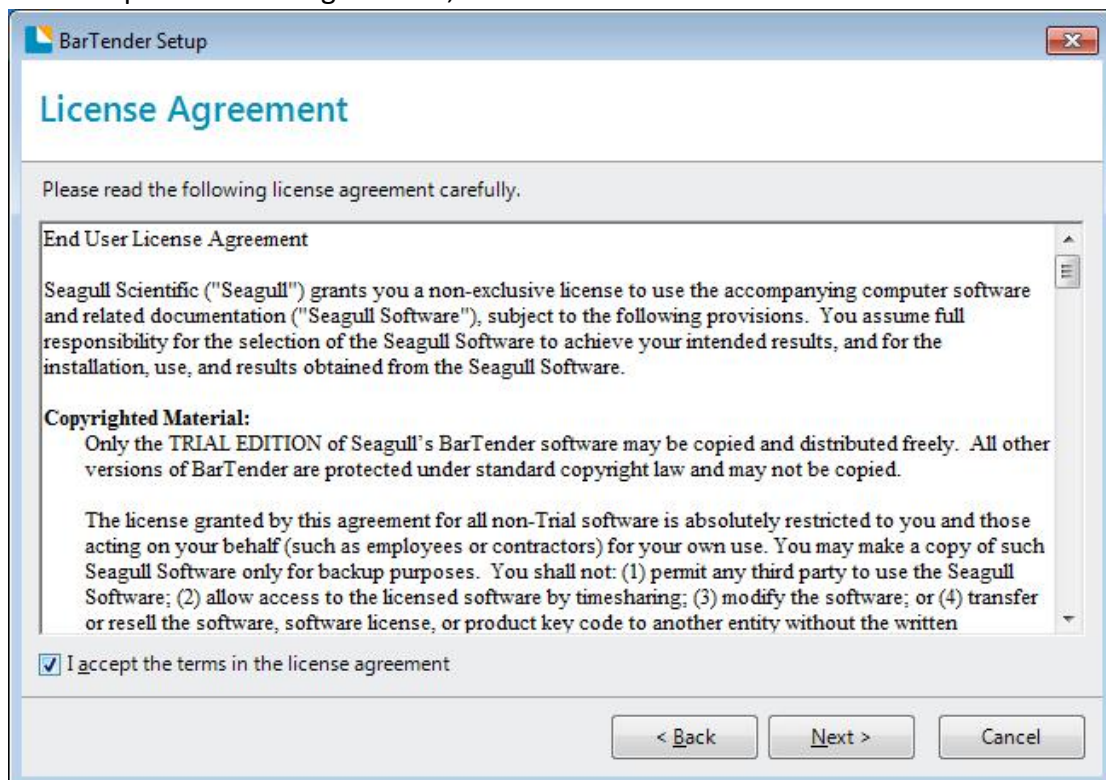
3. Click "Install".



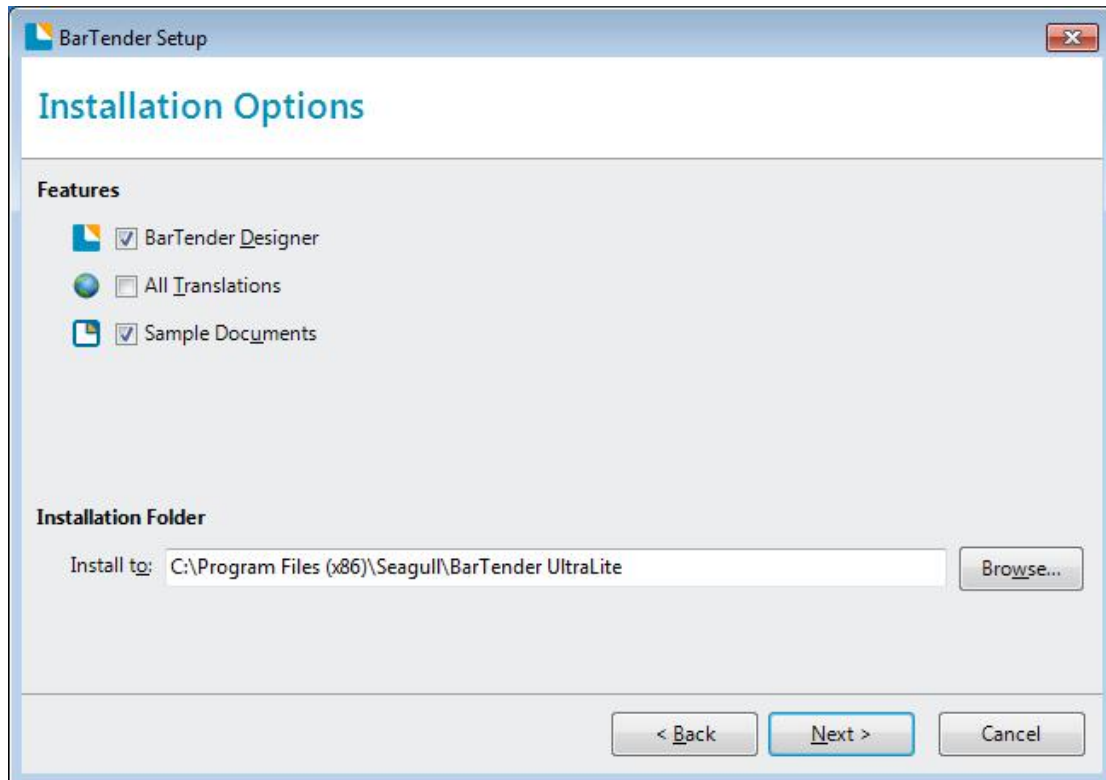
4. Click "Next".



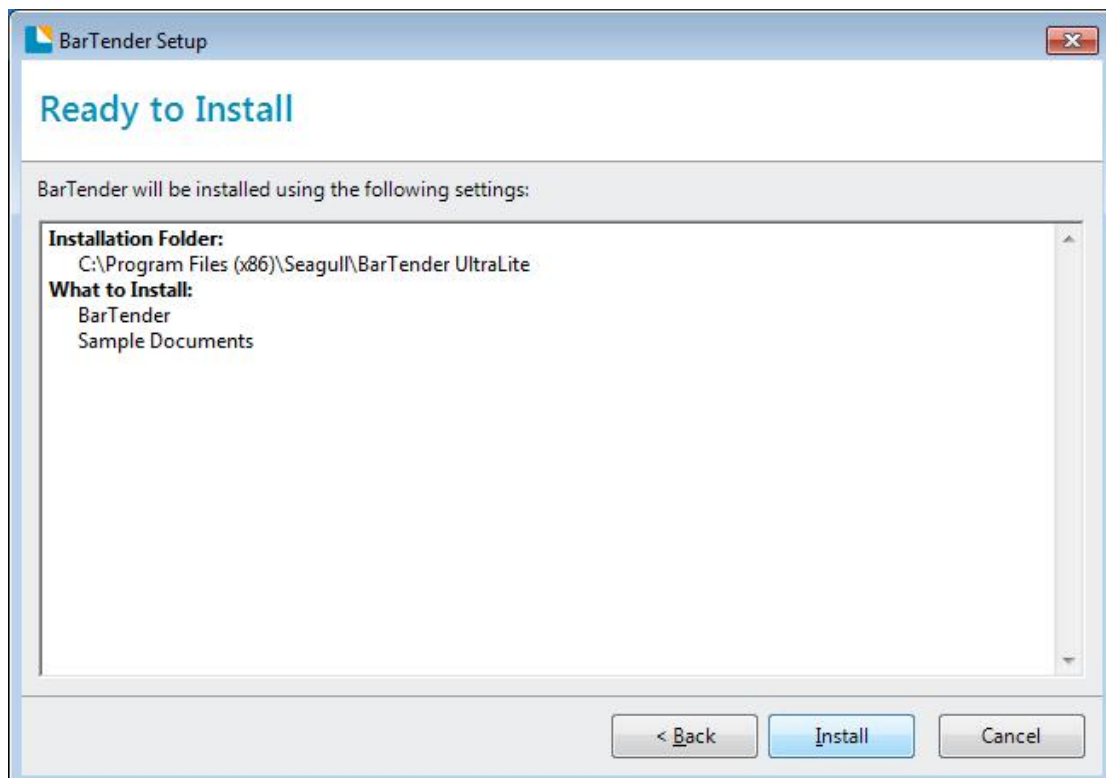
5. Read and accept the license agreement, then click "Next".

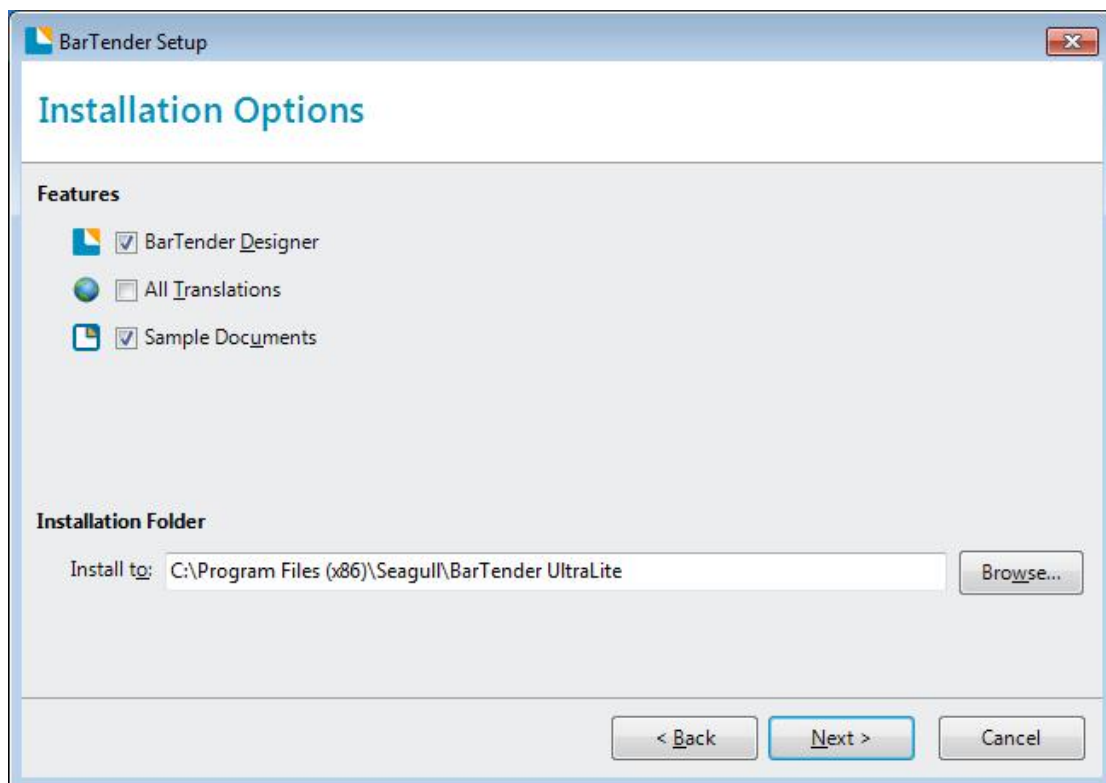


6. Select "Features" and installation location, then click "Next".

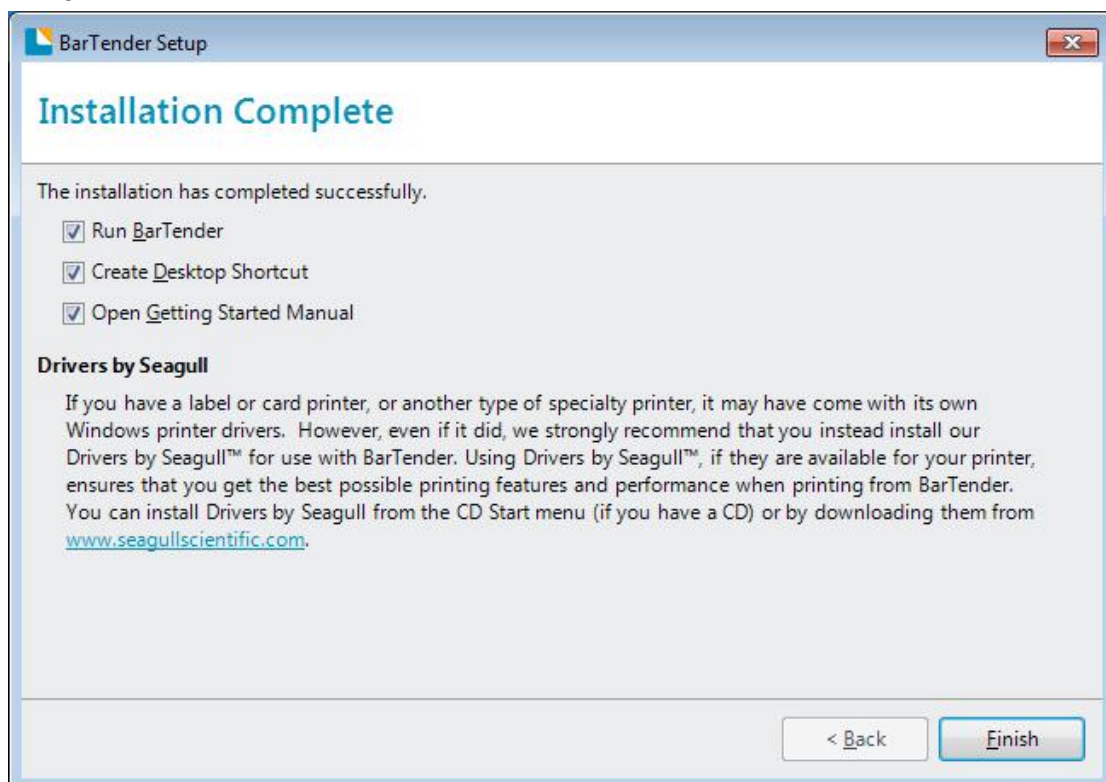


7. Click "Install".





8. Click "Finish".



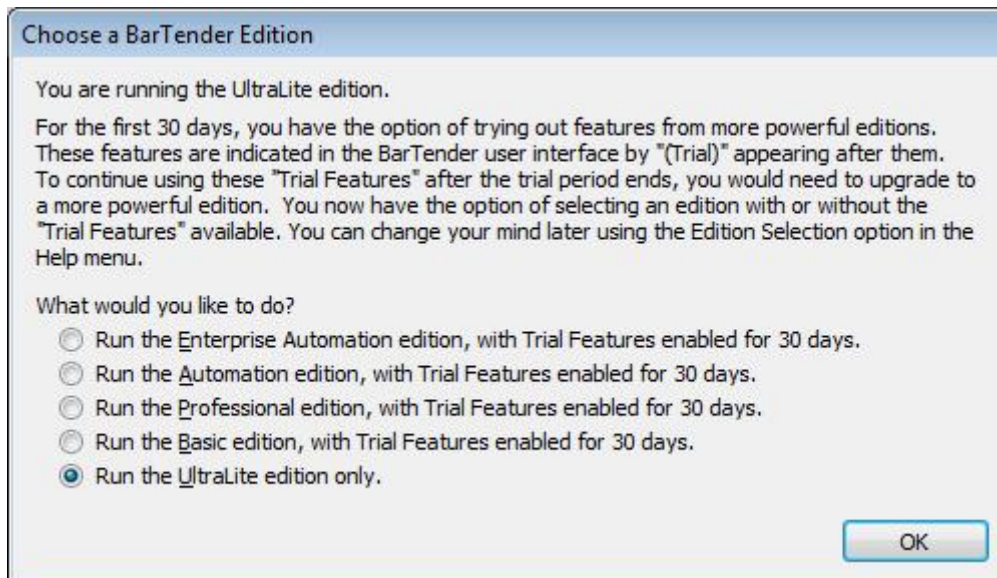
9. Back to desktop, and you will see the icon of BarTender UltraLite. Double click it and get down to use.



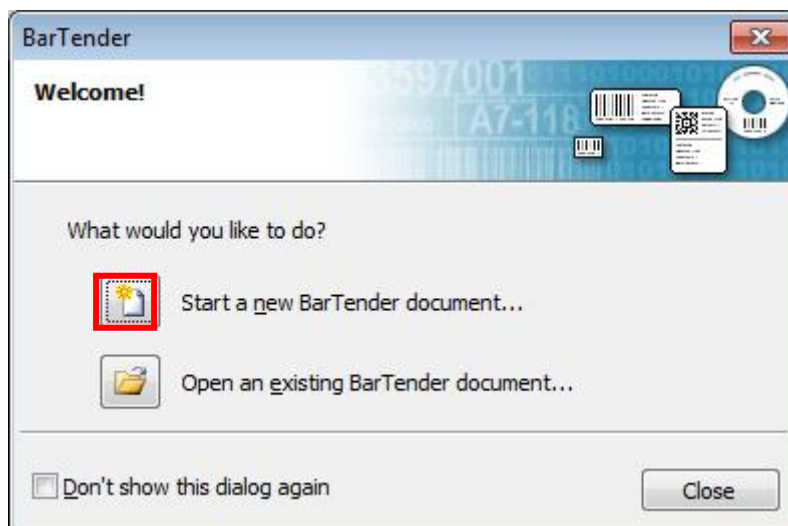
8.4 Usage

8.4.1 Page Settings

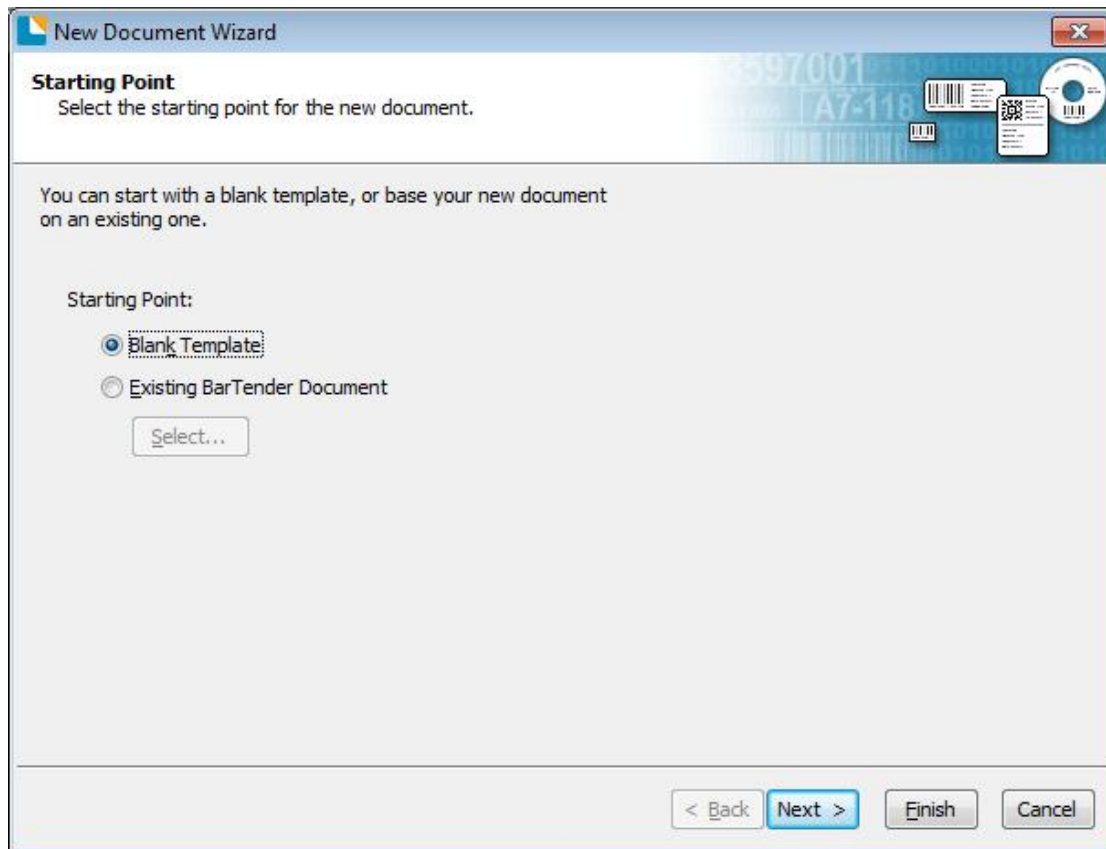
1. Double click the icon, then choose the edition. Click "OK". (The edition may be changed according to different needs.)



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 a 'New Document Wizard' dialog box with the 'Stock Selection' step. The dialog has a title bar with a close button. Below the title bar, there's a header area with a blue background showing a sample document with a barcode and the text '3597001' and 'A7-118'. The main area contains the following text: '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.' Below this text are two radio buttons: 'Specify Custom Settings' (which is selected) and 'Use a Predefined Stock'. Under 'Use a Predefined Stock', there are two fields: 'Category:' with a dropdown arrow and 'Stock Name:' with a large empty text box. At the bottom right of the dialog 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 main heading is "Items Per Page" with the instruction "Specify the characteristics of your media." Below this, a text block states: "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." There are two radio button options: "Single item per page" (which is selected) and "Multiple columns and/or rows of items per page". Under the second option, there are two spin boxes: "Rows:" set to 1 and "Columns:" set to 1. At the bottom right, there are four buttons: "< Back", "Next >", "Finish", and "Cancel". The "Next >" button is highlighted with a blue border. The background of the dialog features a faint image of a document with a barcode and the text "A7-118".

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'. The main heading is 'Side Edges' with the instruction 'Specify the characteristics of the sides of your media.' Below this, a question asks: '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 the radio buttons, there are two input fields for 'Width of Unused Area': 'Left: 0.05 in' and 'Right: 0.05 in'. To the right of these fields is a 'Preview:' window showing a square template with a blue 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:

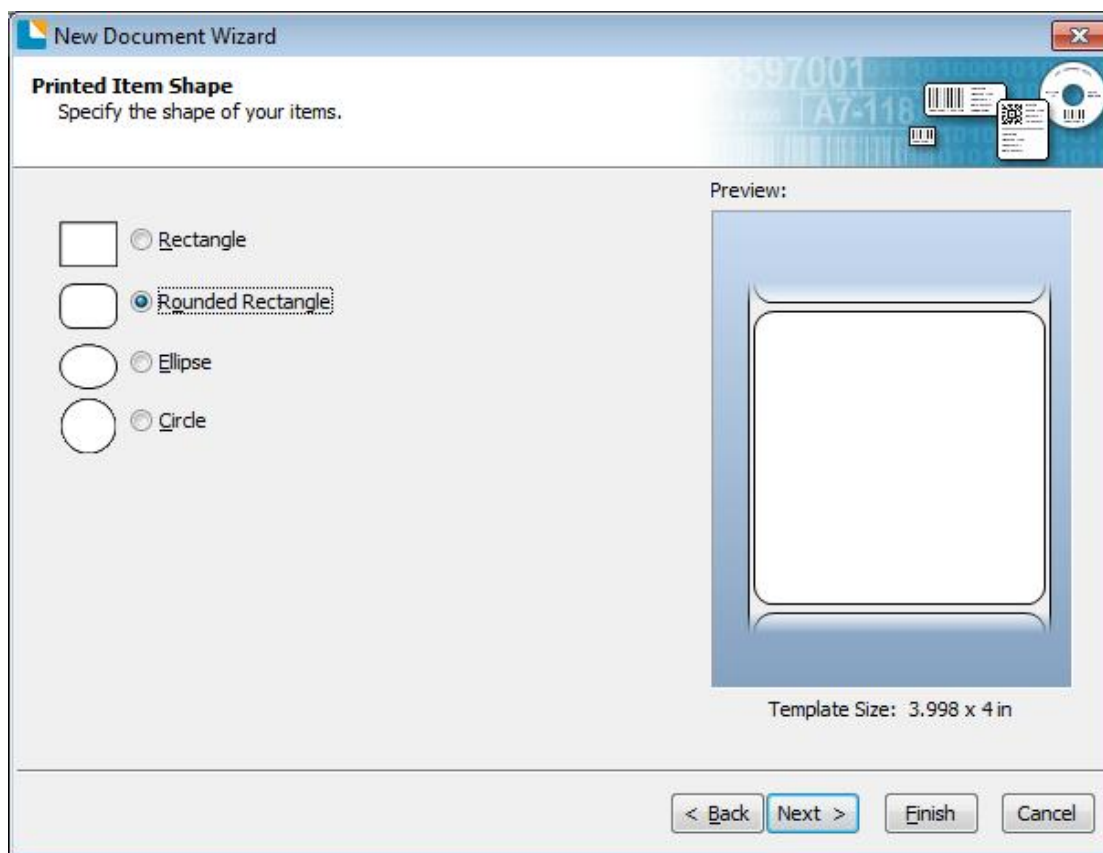
Left: 0.05 in
Right: 0.05 in

Preview:

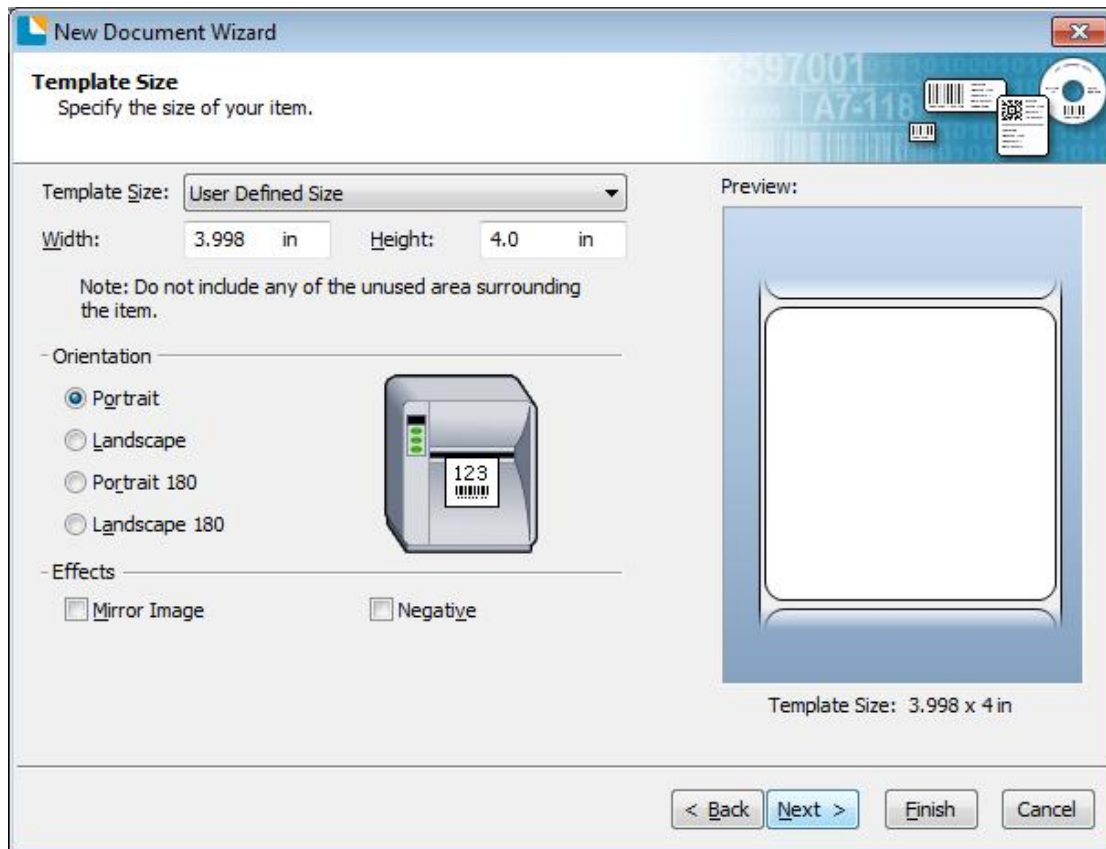
Template Size: 3.998 x 4 in

< Back Next > Finish Cancel

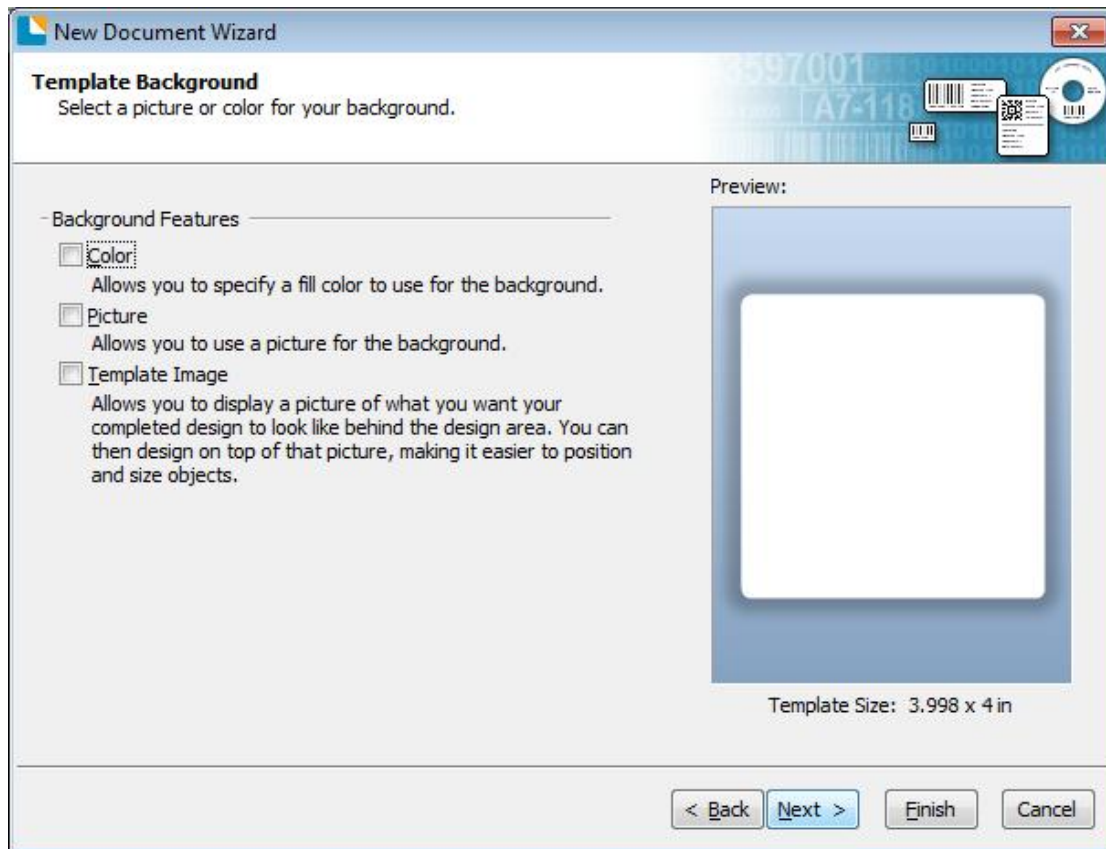
7. Choose the item shape, then click “Next”.



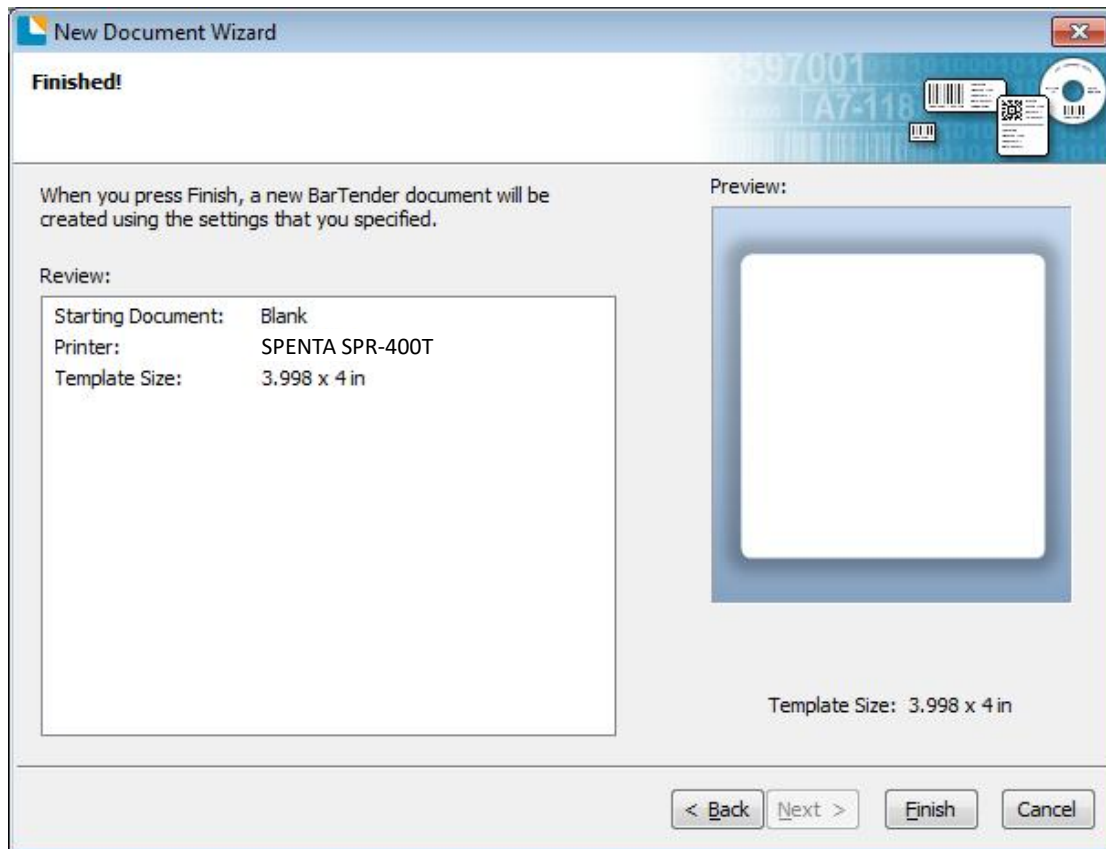
8. Edit the template size, then click “Next”.



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

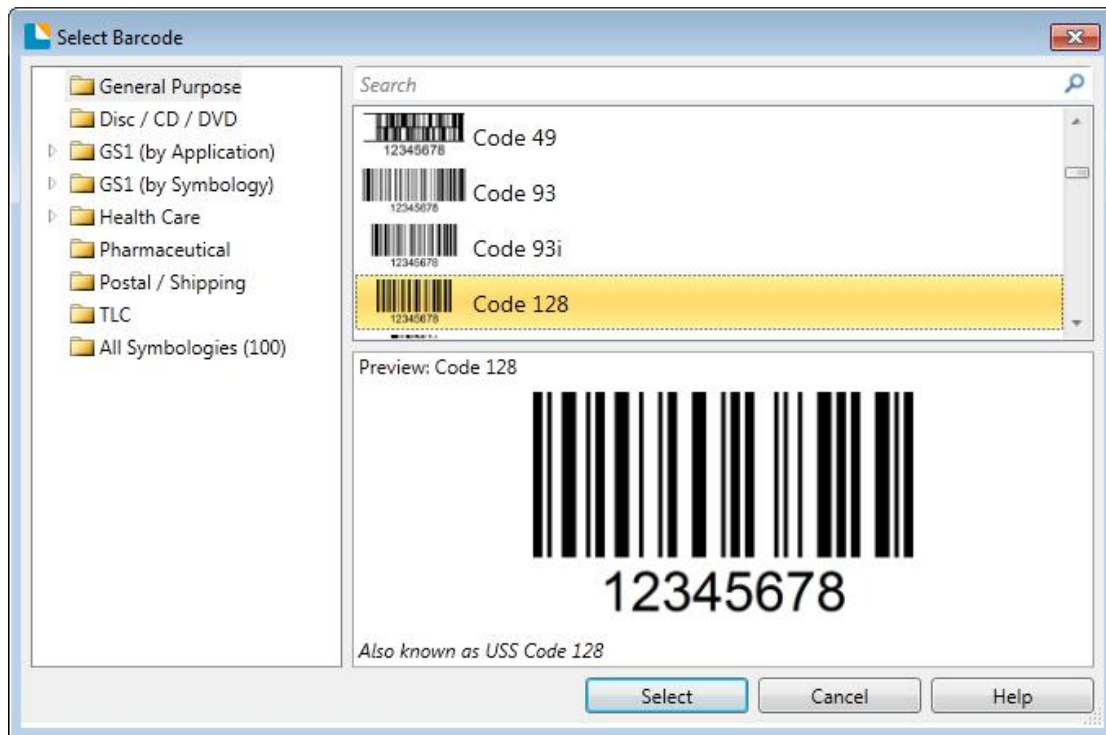


10. Finish the settings, showed in the “Review” and “Preview”. Then click “Finish”.



8.4.2 label Edit

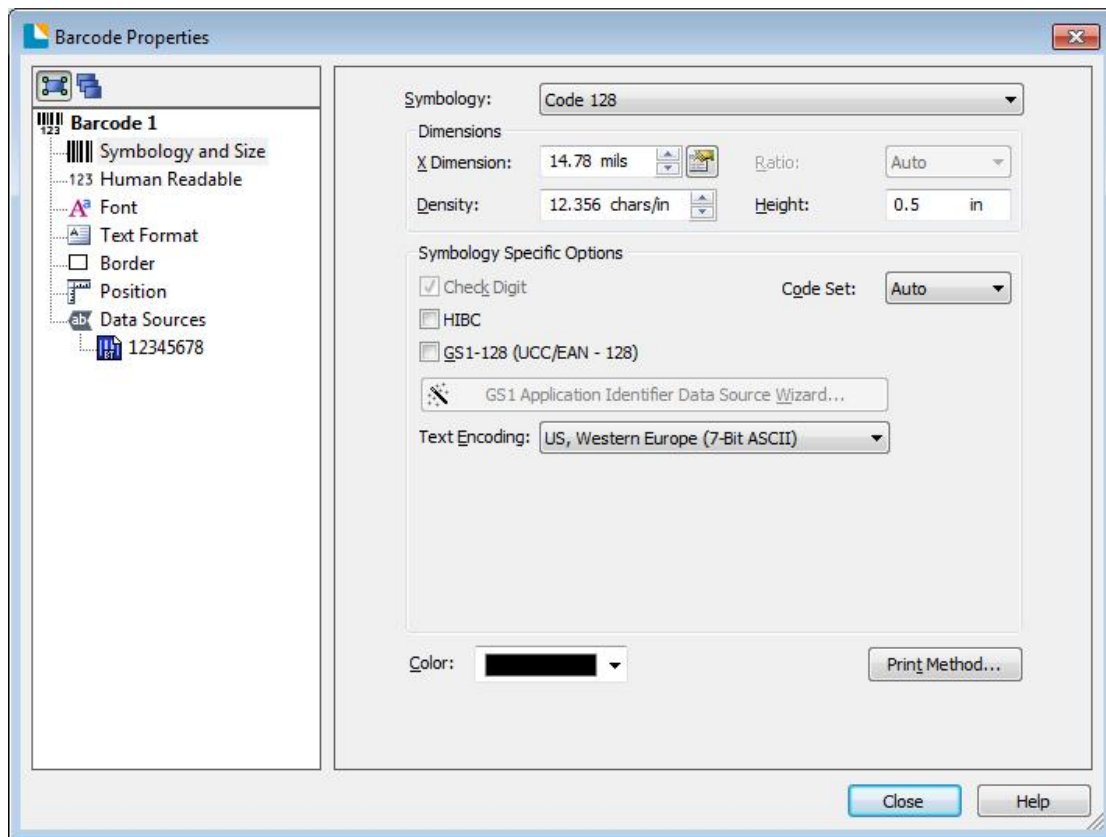
1. Click the icon of code .
2. Choose the code, then click "Select".



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.

Appendix 1 Display Operation

Home Menu	Sub-menu	Sub-menu	Value
Setting 	Printer Setup 	Print Method	DT TT
		Print Speed	2-N ips (varies with different printers)
		Print Darkness	0-N (ZPL/DPL: N=30 EPL: N=20)
		Rotation	0 (Default) 90 180 270
		After Printed	None Tear Off (Default) Peeling Cutting
		Stop Position	Default Manually (0-30mm)
	Label Setup 	Label Type	Gap Label (Default) Black Mark Continuous
		Media Sensor	Auto Sensor (Default) Transmissive Reflective
		PL Simulation	Automatic (Default) ZPL EPL DPL
		Codepage	CP850 (Default) CP852 CP437 CP860 CP863 CP865 CP857 CP861 CP862 CP855 CP866

			CP737 CP851 CP869 Win 1252 Win 1250 Win 1251 Win 1253 Win 1254 Win 1255 Win 1257 UTF-8 UTF-16BE UTF-16LE
		Print Y Offset	+/-120
		Print X Offset	+/-120
	LCD Setup 	LCD Timeout	0-9
		LCD Brightness	0-9
		LCD Language	English (Default) Spanish Portuguese France German Ukrainian 日本語 中文简体 中文繁体
		Security Password	0000 (Default)
		Standby Display	Ready Date/Time
	Int.Device 	Buzzer Volume	0-3 Default: 2
		Date	YYYY/MM/DD
		Time	hh:mm:ss
	RS232 Setup 	Baudrate	9600 (Default) 14400 19200 38400 57600 115200

		Data Bits	7-bit 8-bit (Default)
		Parity	None (Default) Odd Even
		Flow Ctrl	None XON/XOFF Hardware (Default) SW+HW
	Ethernet Setup 	Switch	OFF ON
		Address Mode	DHCP Static (Default)
		Port Number	Default: 9100
		IP Address	Default:10.0.3.22
		Default Gateway	Default:10.0.3.1
		Subnet Mask	Default:255.255.255.0
	Wireless Setup 	Bluetooth Switch	OFF (Default) ON
		SPP Pairing Code	Default:0000
		WiFi SSID	
		WiFi Switch	OFF (Default) ON
		Networking Mode	AP Mode (Default) Station Mode
	Ext.Device 	Keyboard	None (Default) USB Host RS232
		Keyboard Language	English (Default) Spanish Portuguese France German Ukrainian
		Barcode Scanner	None (Default) USB Host RS232
Testing	TPH Printed Mileage		Show the mileages printer has printed
	TPH Bad Not Printing Test		Print the testing page

	Label Calibration		Calibrate the label
	Media Sensor Printing		
	Dump Mode		Receive the data
	Cutting Test		Test the cutter
	Restore Factory Default		Enter Cancel (Default)
	Firmware Update		
	Touch Screen Calibration		
	Printer Configuration		Print the information of printer's current settings
	Internal Font List		Print all the internal fonts template
	Barcode Lists		Print all the barcodes template
	Internal Flash File List		Print the internal flash file list
	External Memory File List		Print the external flash file list
	LCD Configuration		
	File Management	Internal Flash(A:)	Label Formats Graphic Bitmap Font True Type Database Firmware
		External USB Storage(B:)	Label Formats Graphic Bitmap Font True Type Database Firmware
	Auto Form	Auto Label Form Switch	OFF (Default) ON
		Delete Auto Label Form	NO (Default) YES