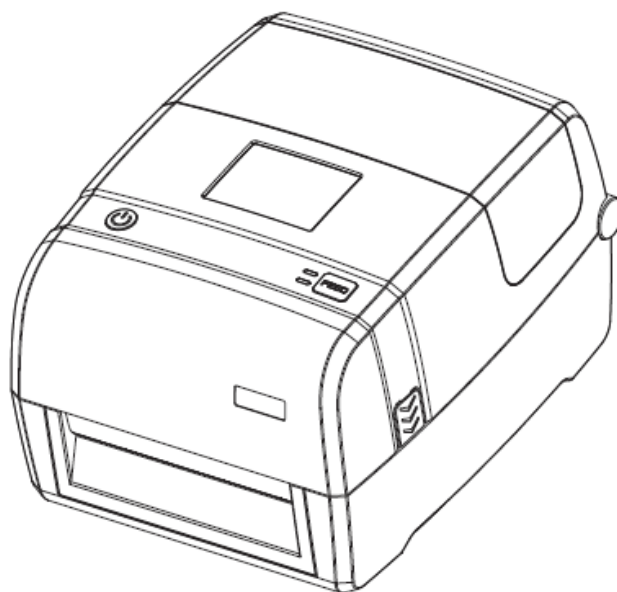




iT4R



User Manual

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Change Record

[illegible]

■ Statement

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Printed in China

1.1 Version

■ Warnings



Warning: The print head is a heating part. Do not touch the print head and surrounding parts during and just after printing.



Warning: Do not touch the print head and connection plug-in to avoid damage to the print head due to static electricity.

■ Special 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



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



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

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 will 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.

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:

- Leave enough space around printer for operation and maintenance.
- The printer should be kept away from water and avoid direct sunlight, strong light and heat source.
- Do not use and store the printer in places with high temperature, high humidity and serious pollution.
- Avoid placing the printer in a place with vibration and impact.
- Connect the printer's power adapter to a suitable grounding socket to avoid using the same socket with large motors or equipment that can cause power voltage fluctuations.
- If you do not use the printer for a long time, disconnect the power from the printer power adapter.
- In order to ensure the printing quality and product life, it is recommended to use paper

of recommended or equivalent quality.

- When plugging in or disconnecting each interface, the power must be turned off, otherwise the control circuit of the printer may be damaged.
- Keep this manual properly for reference.

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.



Warning: Operation of this equipment in a residential environment could cause radio interference.

Chapter 1 Introduction

1.1 Packing List

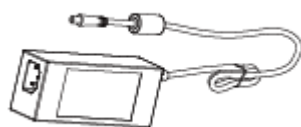


Note:

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



Ribbon Sample



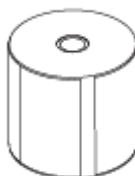
Empty Ribbon Core



Ribbon Spindles



USB Cable



Label Roll



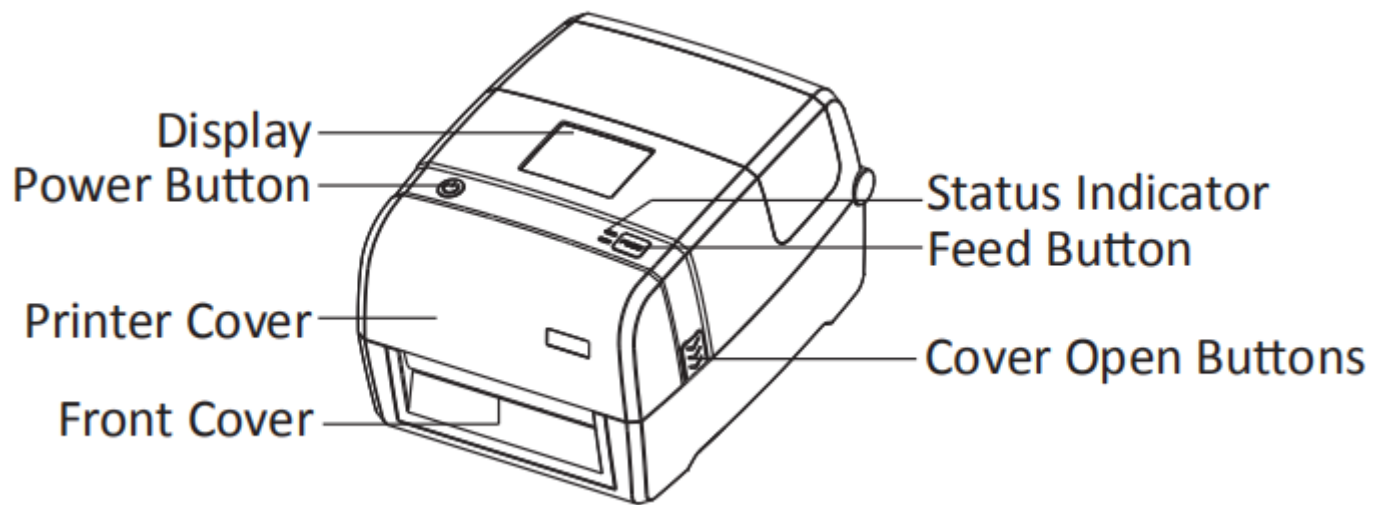
Quick Start Guide



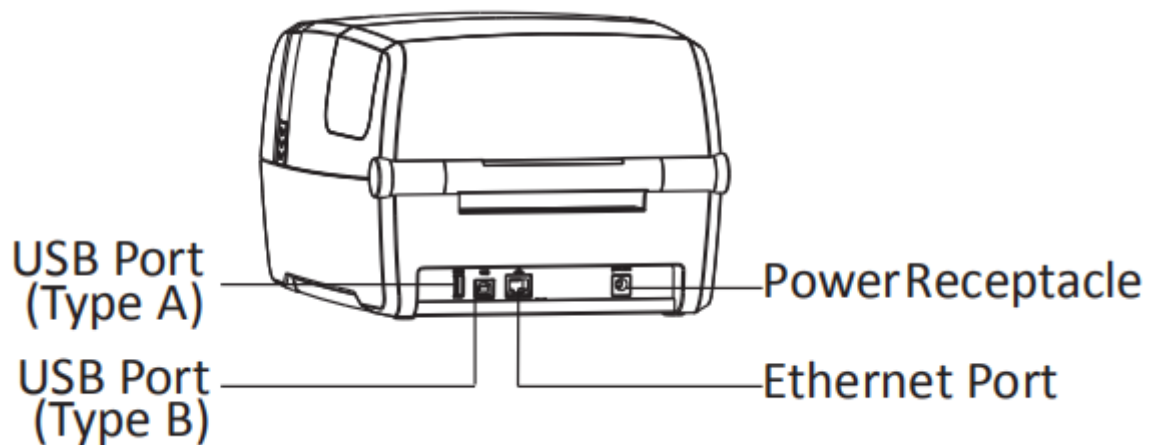
Note: The packing items are based on the order.

1.2 Appearance and Components

■ Front View

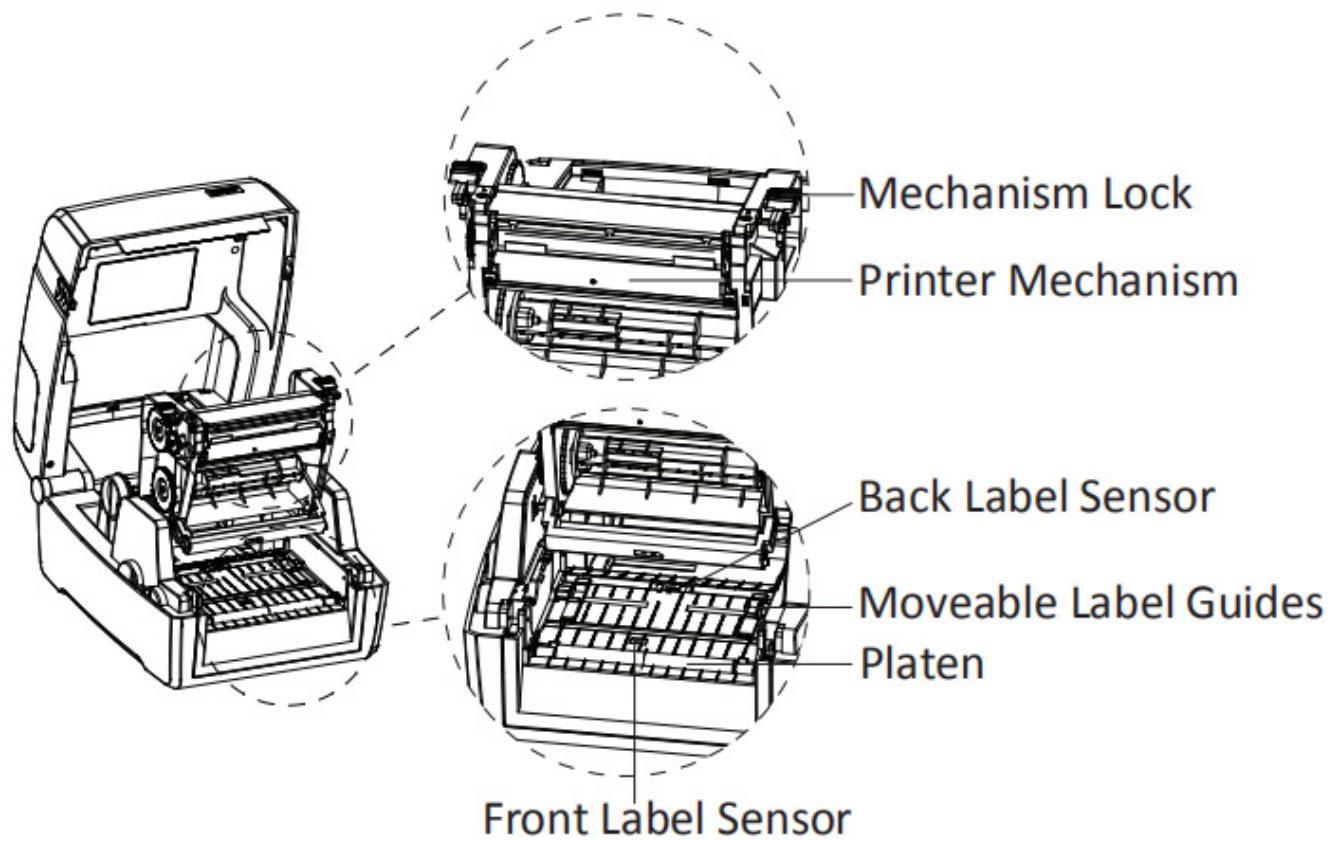


■ Rear View

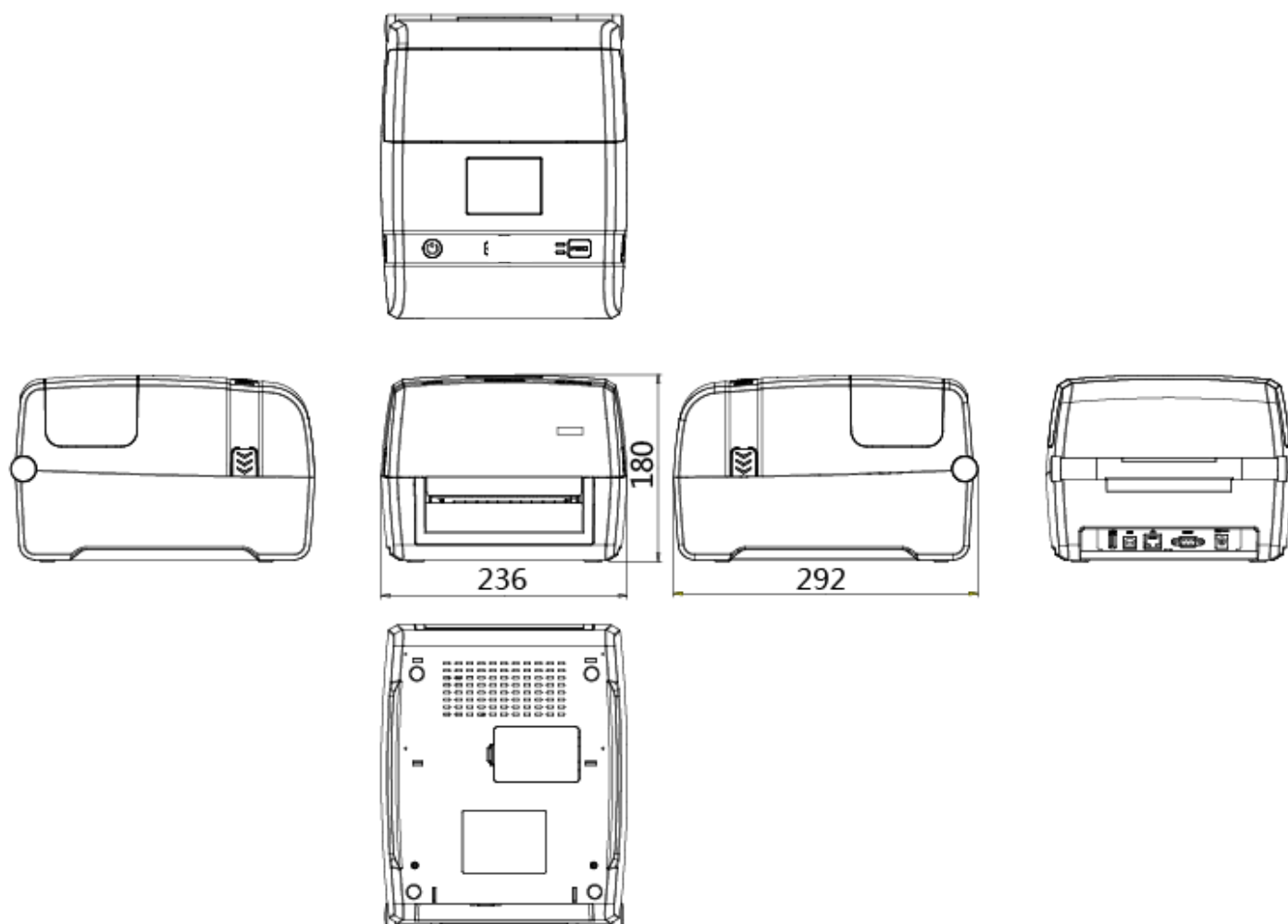


Note: The views above are for your reference. Ports vary by your choice.

■ Inside View



1.3 Dimension



Unit:mm

Chapter 2 Specifications

(2/1)

Item		Parameter
Printing	Printing Method	Thermal transfer
	Resolution	203dpi(8dot/mm),300dpi (12dot/mm)
	Max Printing Speed	200mm/s (203dpi) ,150mm/s (300dpi) , non electronic label read/write area only
	Max Printing Width	108mm(203dpi),106mm(300dpi)
	Max Printing Length	2,286mm(203dpi),1,524mm(300dpi)
Memory	RAM	128 MB
	Flash	256 MB
Programming Language		ZPL-II, EPL-II, DPL
Detection	Sensor	RF LabelSensor,Paper-out-of Sensor,Gap Label Sensor,Black Mark Label Sensor
Media	Electronic label	(UHF RFID), working frequency: 860-928MHz Support EPC C1G2(ISO18000-6C) standard protocol
	Types	Folding or cutting or punched hole or black mark electronic label paper
	Width	1 inch(25.4mm) – 4.72inches(120mm)
	Height	0.0787 inch(20mm)– 9.84 inches(250mm)
	Thickness	60μm – 250μm
	Label Roll Diameter	Max 5 inches(127mm)
	Core Diameter	0.5 inch (12.7mm) , 1 inch (25.4mm) , 1.5 inches(38mm)
Ribbon	Type	Wax,Wax/Resin,Resin
	Width	1.18 inches(30mm) – 4.33 inches(110mm)
	Length	Max 984 feet(300m)
	Core Diameter	1 foot(25.4mm)
Software	Label Design Software	Seagull BarTender Ultralite
	Driver	Windows Vista7,8,10, Server 2012/2016/2018
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	CG Triumvirate™ Vector font, Simplified Chinese

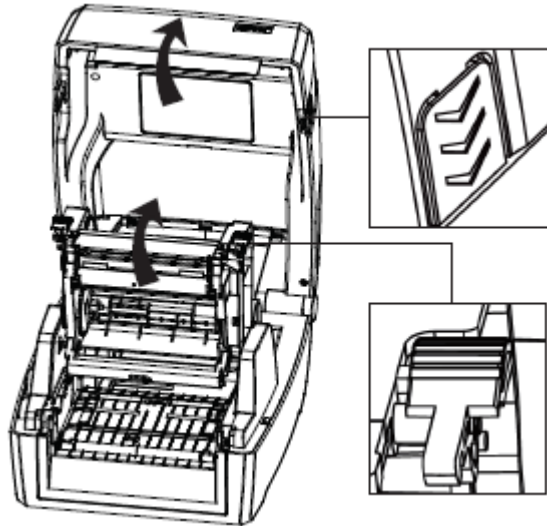
项目		参数
Download Fonts	Bitmap fonts	90°, 180°, 270° rotatable and 10 times expandable in horizontal and vertical directions
	Asian fonts	16x16, 24x24. Traditional Chinese, Simplified Chinese, Japanese, Korean, 90°, 180°, 270°, rotatable and 10 times expandable in horizontal and vertical directions
	TTF fonts	90°, 180°, 270° rotatable
Barcode	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, USB HOST, Ethernet
	Optional	Bluetooth 4.0/BLE, Wi-Fi
Control Panel		2 indicating LED:standby,abnormal prompt Control keys:feed button
LCD Display		3.5 inches Touch Panel LCD
Clock		Standard
Power Supply		Switching power Input: AC 100-240V, 50/60HZ Output: DC 24V/2.5A, Peak 9A
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	Dimension	308*250*180 mm
Characteristic	Weight	About 2.85 kg
Options & Accessory		Peeler Module, Cutter Module, External Label Roll Holder
Agency Approval		CCC、CE、FCC、CB、WEEE、RoHS

Chapter 3 Installation & Usage

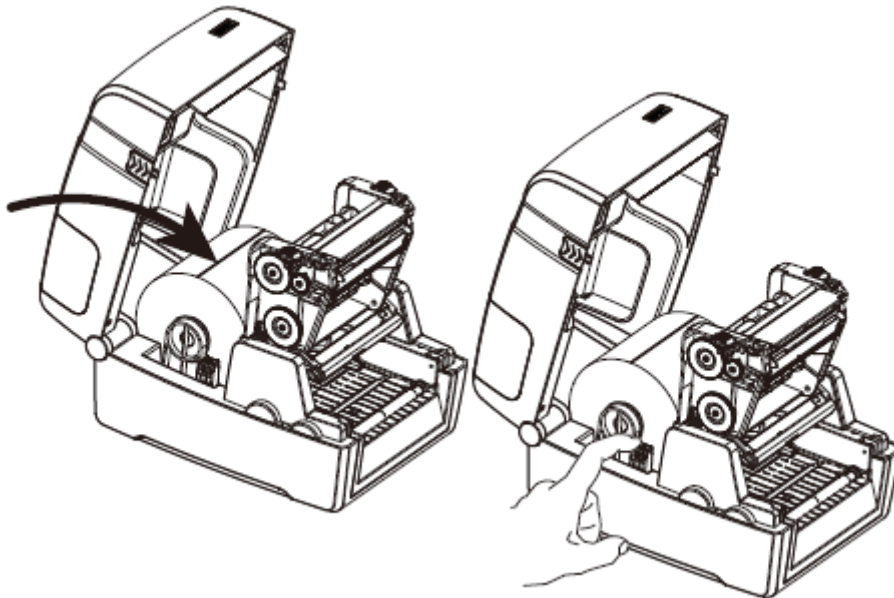
3.1 Media Loading

3.1.1 Loading the Roll

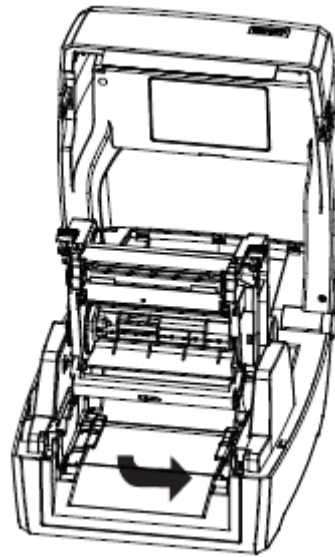
1. Press to open the printer cover and mechanism.



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



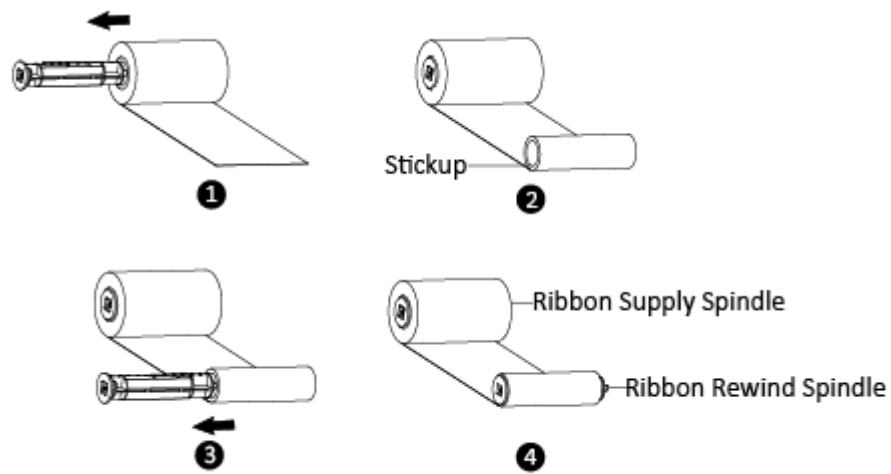
3.Pass the labels through label guides and adjust label guides to label's width.



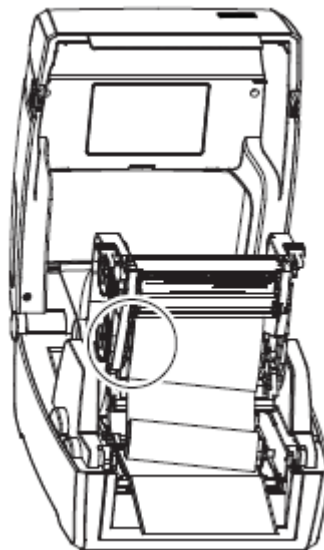
Note: Close the paper guide clip to secure the label paper. Please ensure that the label paper is fixed, otherwise the handwriting will be offset during printing.

3.1.2 Loading the Ribbon

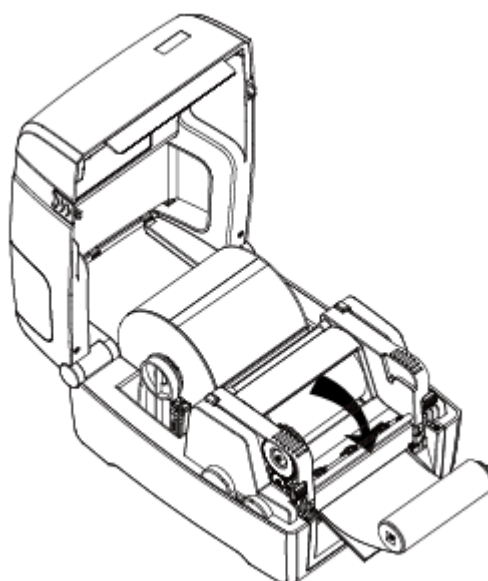
1. Install the ribbon module.



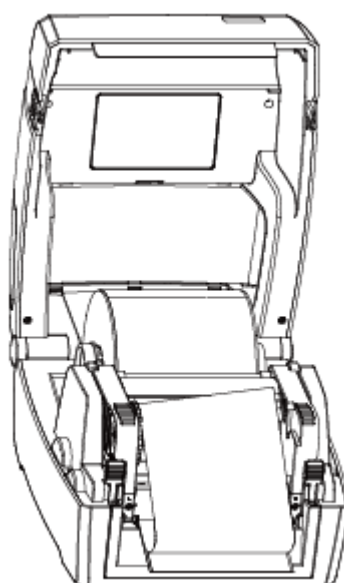
2. Insert the left part of supply spindle and then the right part.



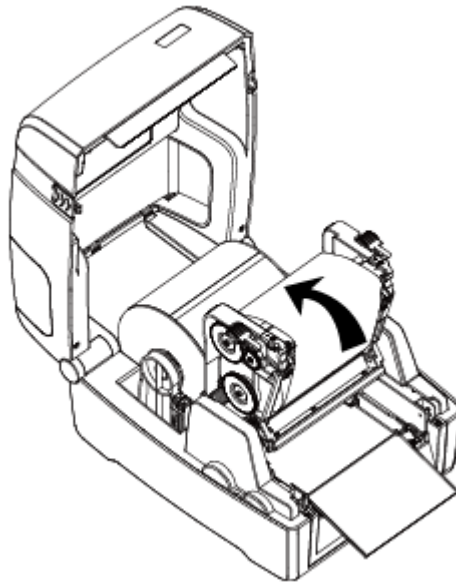
3. Press down the printer mechanism.



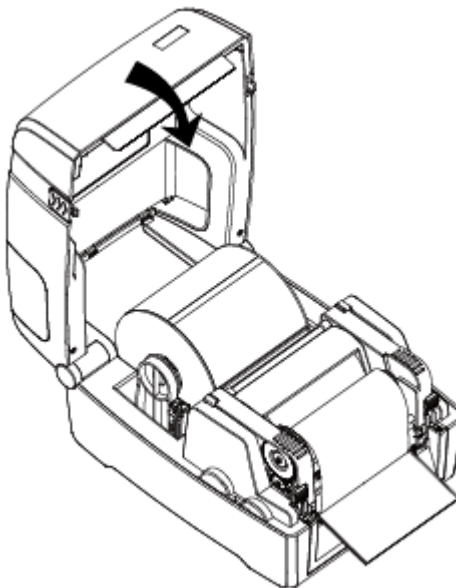
4. Insert the left part of rewind spindle and then the right part.



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

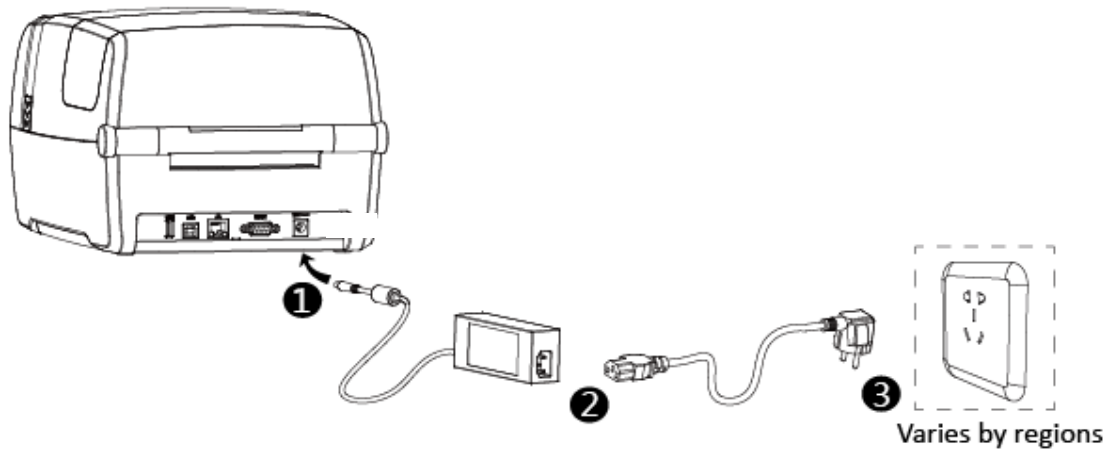


6. Fix the mechanism and close the cover.



3.2 Power Connection

Connect the printer power as shown in the following figure :



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 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 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.

1.Instructions:

- 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 and finish pairing.
- 4)If you need more detailed information of pairing methods, please refer to the instructions of Bluetooth device.

2.Note:

When pairing, the printer must be turned on.The printer is paired with the upper computer one-to-one.

Bluetooth initial password: 0000。

3.Print using Bluetooth interface:

For the host machine (such as smart phone,tablet, POCKET PC, PALM, laptop and so on)with virtual Bluetooth interface, after the pairing is successful, it can send print data to the printer through the virtual Bluetooth serial port for printing.

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.

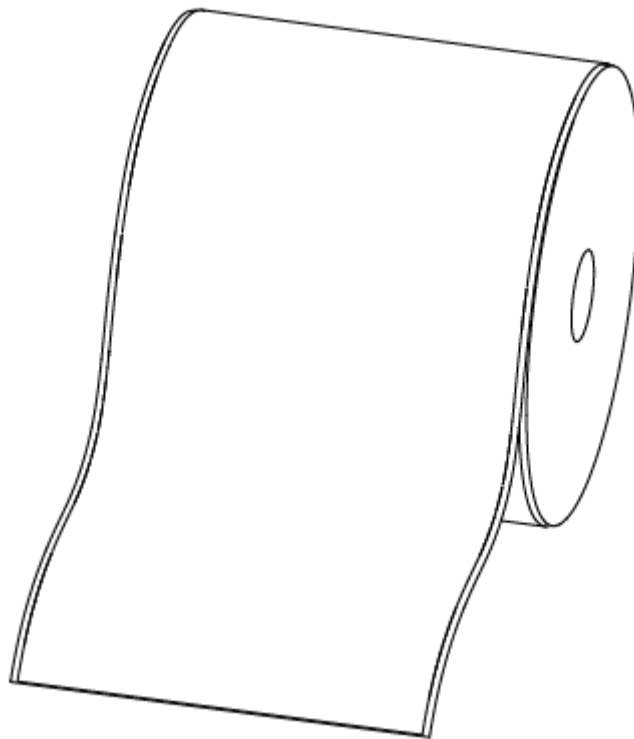


Figure 1 (Continuous Paper)

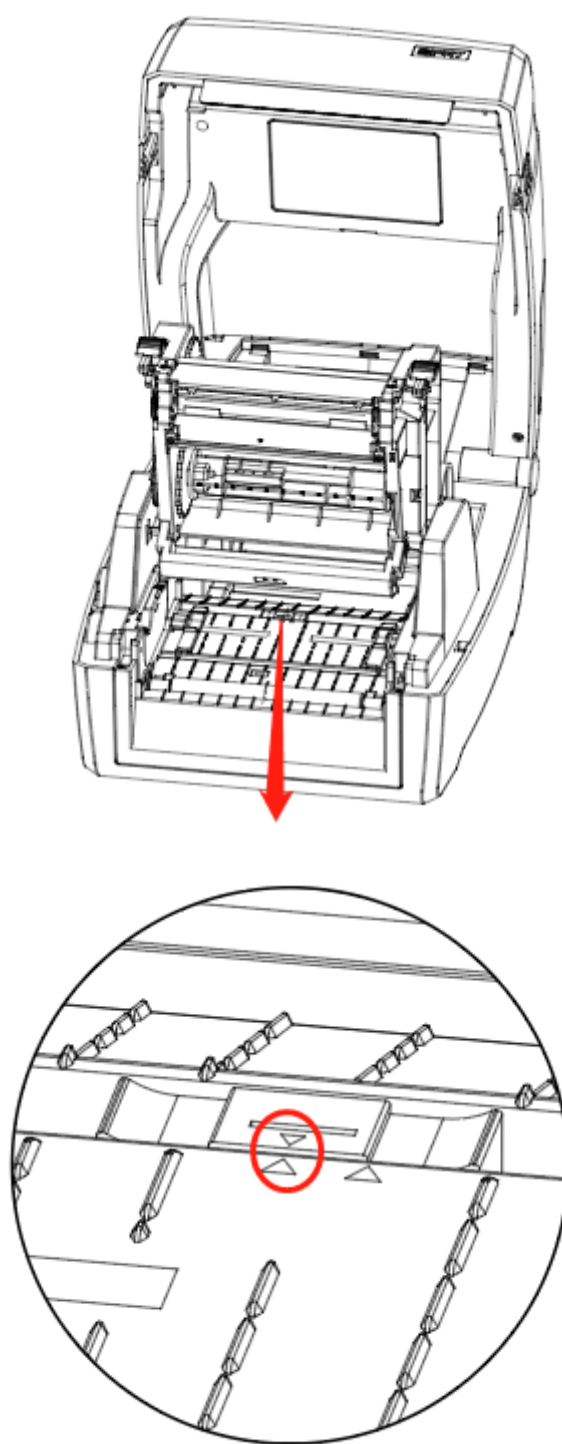


Figure 2 (Left)

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.

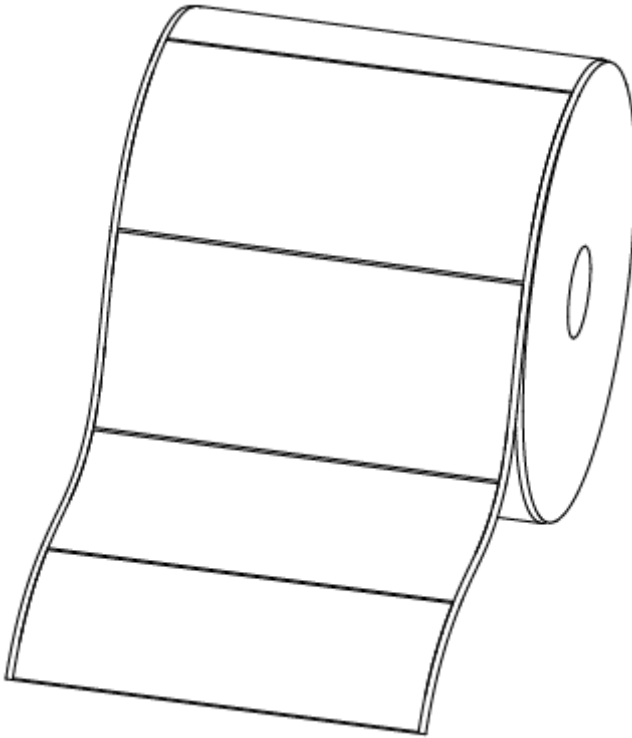


Figure 3 (Labels)

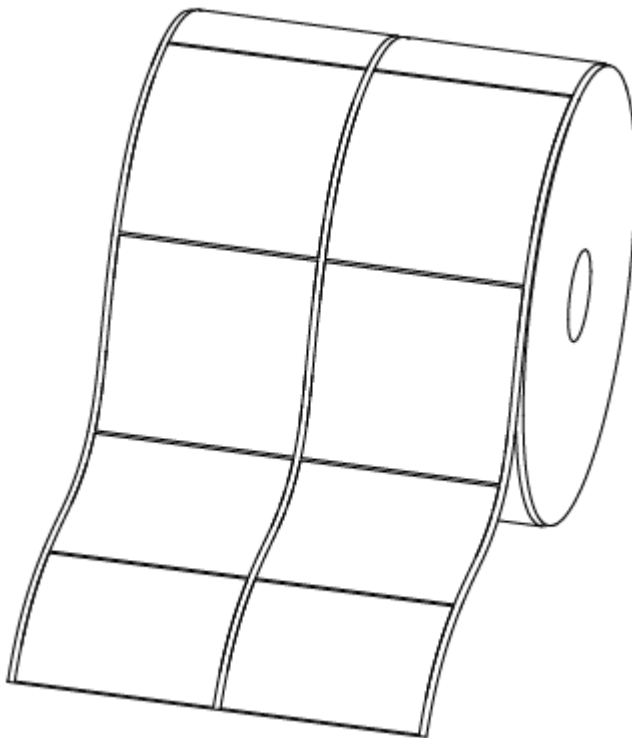


Figure 4 (Double-row Labels)

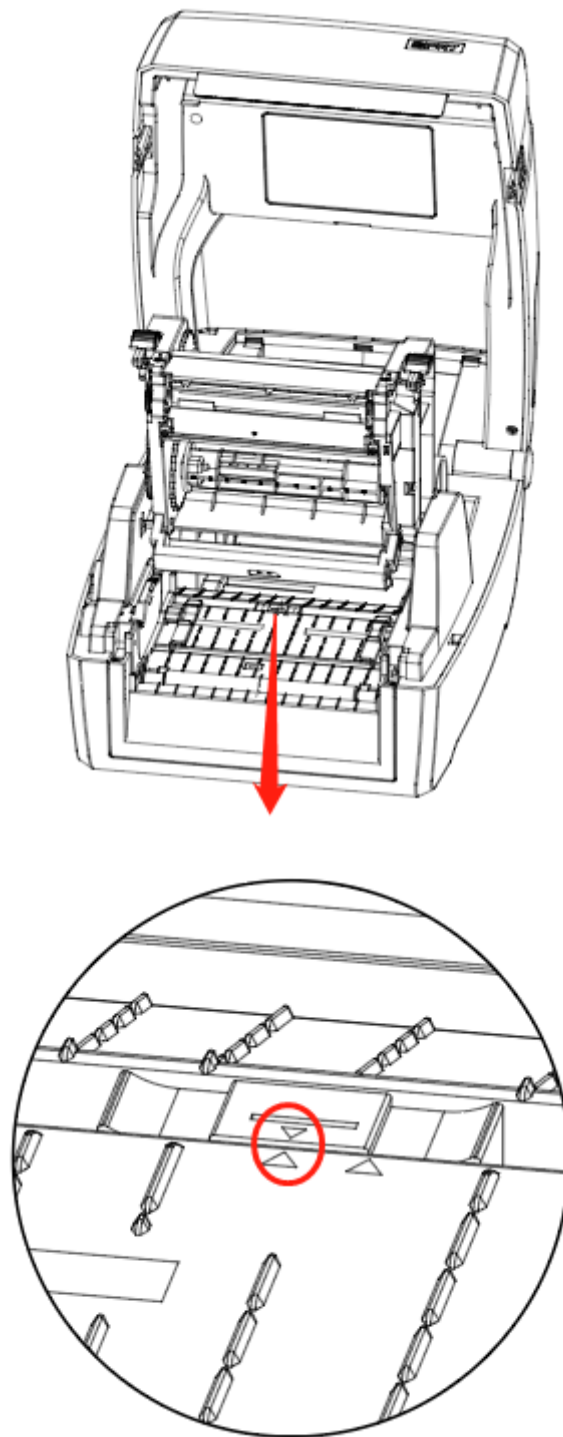


Figure 5 (Left)

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).

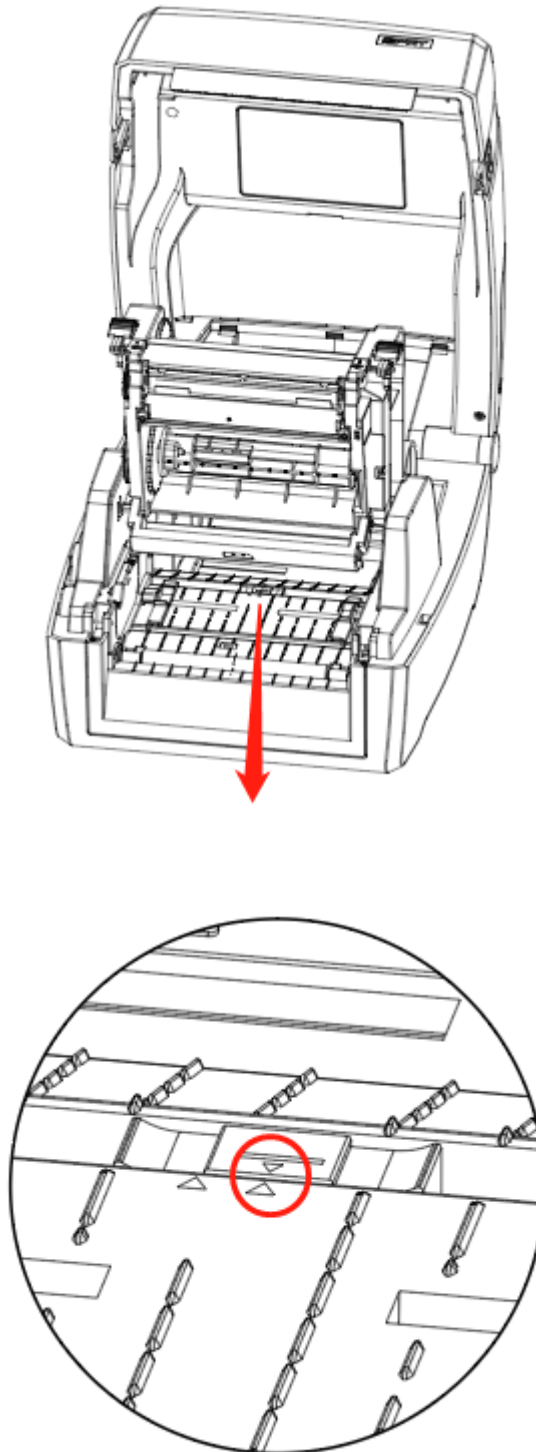


Figure 6 (Right)

3.4.4 Blackmark Paper

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

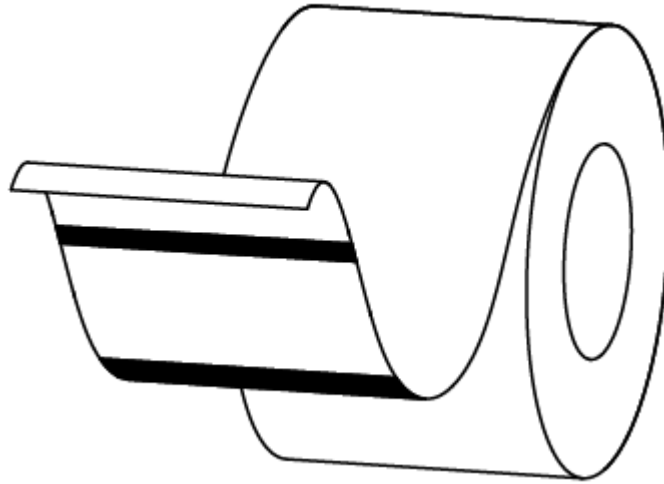


Figure 7 (Blackmark Paper)

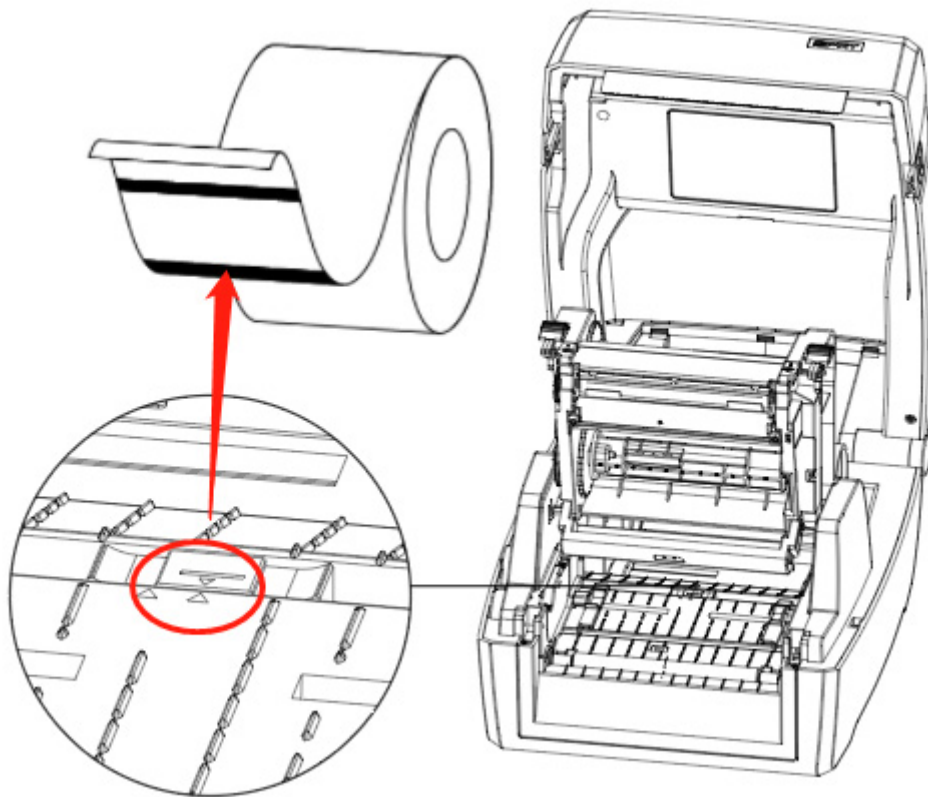


Figure 8 (aimed at blackmark's position)

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".

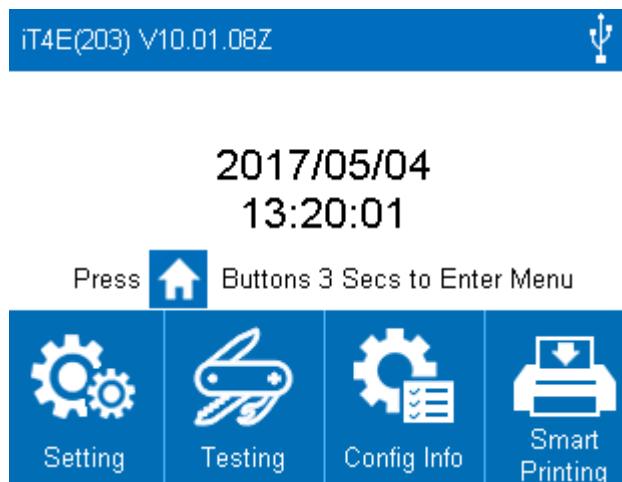
2.Feed Button



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

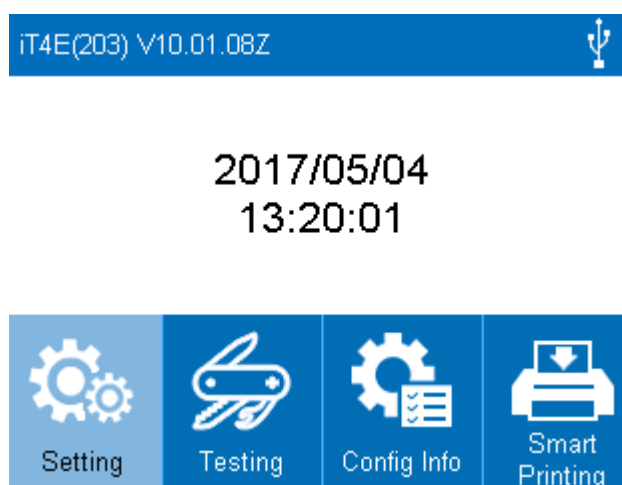
3.Display

It is divided into idle display, home menu display, sub-menu displays and operating displays.



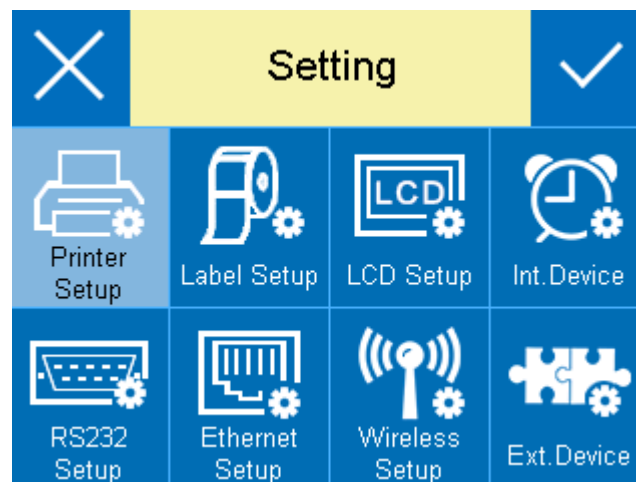
Idle Display

- When the printer is power on, the idle display will appear.
- It contains printer's name, version number of the firmware, time and menu.



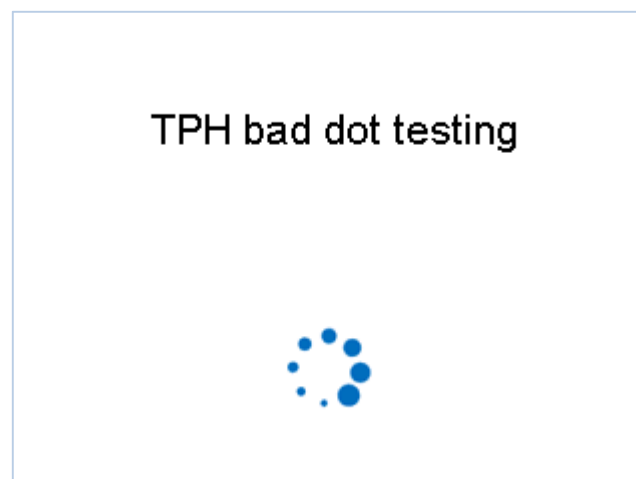
Home Menu Display

- User can operate the printer by display in home menu.



Sub-menu Display

- There are numerous sub-menus displays and user can switch them by menu button and enter button.

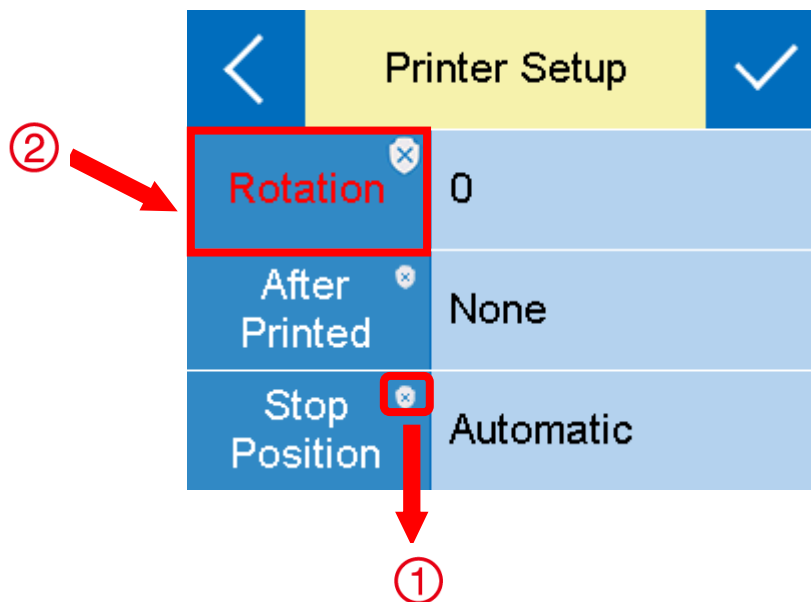


Operating Display

- When operating display appears, it means that printer is carrying the command that user has sent. After finishing the task, printer will return to the sub-menu display.



Note:



- ① The item with red frame: When the item is white, the relevant values could be changed both by display operation and software instructions. When the item turns yellow, the relevant values have been protected and can only be changed by display operation.
- ② User can change the item into another status by clicking the corresponding value.

3.5.2 Display Operation



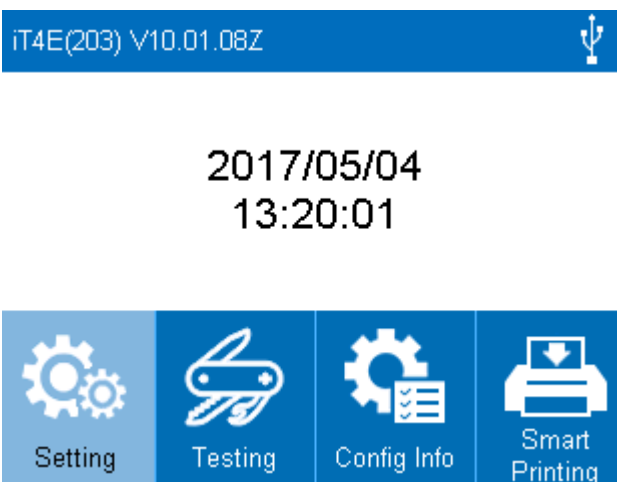
Note:

- User can confirm the printer status through the display screen.
- The highlighted item represents that user has chosen the item needed.

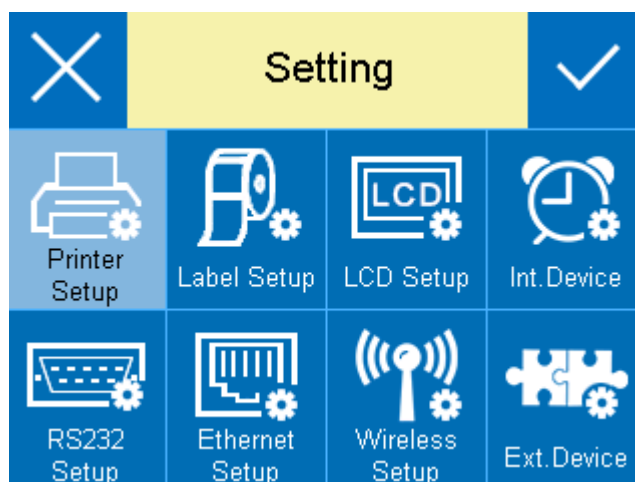
In the following instructions, the example will be taken to show user how to operate the printer.

Changing the speed of the printer:

1. Make sure the printer is connected to the power supply and the paper roll is installed correctly.
2. Press the power button to open the printer and enter the main menu interface.



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



4. Users can click the settings of printing mode, printing speed and printing density as required;



Click to enter other setting options.

	Printer Setup		
Print Method	☒ DT	☐ TT	
Print Speed	4 ips		
Print Darkness	10		



5. Click , and save the above settings.

	Printer Setup			
Rotation	0			
After Printed	None			
Stop Position	Automatic			



Note:

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

3.5.3 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

Make sure the printer is connected to power.

- 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:

1. Carry out the calibration manually.

- The printer is connected to the power supply and the paper roll is installed correctly.
 - Confirm that the printer top cover and the printer mechanism have been closed in place, and the printer is powered on.
 - 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.

2. Carry out the calibration by printer utility tool.



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

Make sure the roll is loaded properly.

Make sure the top cover of the printer is closed properly. Then turn on the printer.

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

Install the Windows Driver program.

Set the "Interface" as the type you use.

Use the Windows Driver Program to print out the "Self-test page".

3. Printing by BarTender Ultralite Program

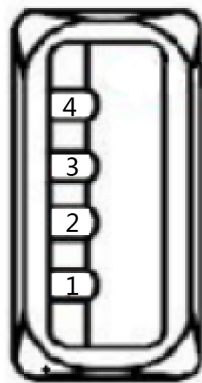
Install the BarTender Ultralite program.

Edit a new label and print it.

Chapter 4 Interface

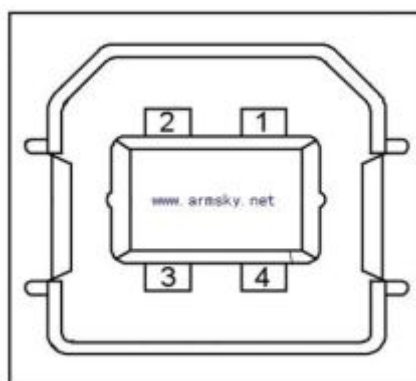
4.1 USB Interface

1.USB (Type A)



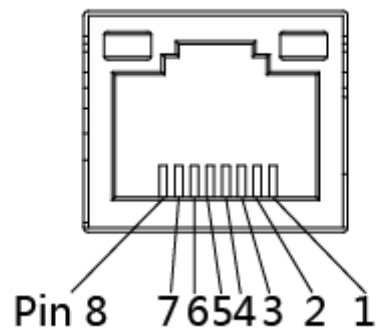
PIN	SIGNAL NAME
1	VBUS
2	D-
3	D+
4	GND

2.USB (Type B)



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

4.2 Ethernet Port



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

Chapter 5 Maintenance & Adjustment

Dust, foreign objects, sticky substances, or other contaminants that stick to the print head or the printer may reduce print quality. When dirty, clean the print head as follows.



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 Thermal Print Head

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

5.2 Cleaning Sensor Roller or Paper Path

- 3) Open the printer cover and then remove the paper.
- 4) Remove any dust or foreign substance using dry cloth or cotton swab.
- 5) Soak the cloth or cotton swab in alcohol for medical use and use it to remove adhesive foreign substances or other pollution materials.
- 6) 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.

Appendix 1 Display Operation

Home Menu	Sub-menu	Sub-menu	Value
Setting  Setting	Printer Setup  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 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	iT4E (varies with different printers)
		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		
Config Info 	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		
Smart Printing 	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

Appendix 2 Download Path for UTILITY and Driver

1. Enter the website in browser: <http://www.idprt.com>
2. Select the “DOWNLOAD” to get the Utility and Driver.

