KMP-III Portable Thermal Printer

User Manual

R e v i s e d   R e c o r d

Item	Date	Description	Edited page	Desing	Review
1	2021.5.6	The first draft		Zhu Xiaoyan	Zhang ce
2	2022.2.9	Optimize		Zhu Xiaoyan	Zhang ce

Content

Cautions

◆ Safety precautions before using the equipment, please remember the following safety regulations to prevent any damage or property loss.

⚠ **WARNING**

Violating following instructions can cause serious injury or death.

If you observe a strange smoke, odor 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.

TO UNPLUG

PRINTER

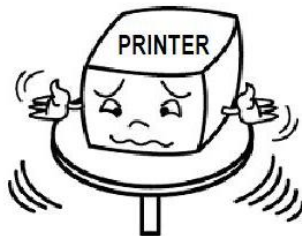**Keep the desiccant out of children's reach.**

• If not, they may eat it.

PROHIBIT

Install the printer on the stable surface.

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

PRINTER

PROHIBIT

Use only approved accessories and do not try to disassemble, repair or remodel it for yourself.

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

DISASSEMBLING PROHIBITED

PRINTER

Do not let water or other foreign objects in the printer.

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

PROHIBIT

PRINTER

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.

TO UNPLUG

PRINTER DEALER

◆ Operations Precautions

Be sure not to print continuously over 1meter, otherwise may cause damage to the printer head. Water or other liquid should not spill into the printer, also the printer should not be appeared in the rain, or else may cause printer damage. Please do not open the paper case cover when printing; otherwise the printer may work improperly.

When print with Bluetooth interface, the communication distance should be within10 meters, otherwise the printer doesn't print or prints rubbish codes. Too high(50℃) or too low(-10℃)temperature and too high(80%) or too low (20%) relative humidity both effect the quality. The print paper in poor quality or stored for too long time also may reduce the print quality even damage the printer.

Be sure to use up the power of the battery before charge it, as it can ensure the using life of the battery.

◆ Storage Precautions

The printer should be placed in such an environment that the temperature is between -20℃ and 70℃, and the relative humidity is between 5% and 95%.If the printer will be stored for a long time, please be sure to take out the battery, otherwise may damage the battery and printer. Normal thermal paper can't be kept too long time. If you need to keep the receipt for a long period, please choose long term effective thermal paper. The paper should be keep away from high temperature environment and point-blank sunshine.

◆ Battery Safety Precautions

Be sure to carefully read the user manual before using the produce.

Ignore the following instructions may cause battery overheating, fire, explosion, damage and/or performance, and reduced product life.

1) Risk of explosion if battery is replaced by an incorrect type.

2) Dispose of used batteries according to the instructions.

3) Do not allow water, sea water from entering or leaking into the battery inside. If the batteries internal safety device burn, when changing it, it may produce any abnormal current and/or voltage, and cause any abnormal chemical reaction, then may cause the battery overheating, fire and/or explosion.

4) Do not use or place the battery nearby the stove or other high temperature places. Excessive heats maybe damage the resin shell and/or the insulation materials, and then the battery may be caused overheating, burning and/or explosion.

5) When charging, use a specified charger. Other conditions (high temperature, high pressure/high current, using the modified battery charger, etc) excludes here may result in over-charging the battery and abnormal current and/or voltage, cause abnormal chemical reaction, and may cause the battery overheat, light and/or explosion.

6) Battery clearly marks with positive and negative. When connect the battery with the charger and/or printer, be sure to verify the correct battery orientation. Reverse insertion will cause the reverse charging and may cause abnormal chemical reaction, and then may cause the battery overheat, ignite, and/or explosion.

7) Do not make the battery contact with the power outlet and/or car cigarette lighter socket. This may cause high pressure and excessive current, and lead to the battery overheat, burning and/or explosion.

8) Do not heat the battery or put the battery into fire. This may melt insulation material and/or damage safety devices or safety equipment, then ignite electrolytic solution, and cause the battery overheat, burning and/or explosion.

9) Do not use the battery with contrary (+) and (-) Location. In the charging process, this will cause the reverse charging and may cause abnormal chemical reaction. During use, may appear unpredictable current exception, and cause the battery overheat, ignite, and/or explosion.

10)Do not make the battery (+) and (-) contact with any metal. Also, do not carry along or store batteries with metal objects, such as necklaces, hair clips and so on. Battery internal short circuit may cause excessive current, and lead to the battery overheats, ignite, and/or explosion and the adjacent metal objects (necklaces, hairpins, etc.) may be overheating.
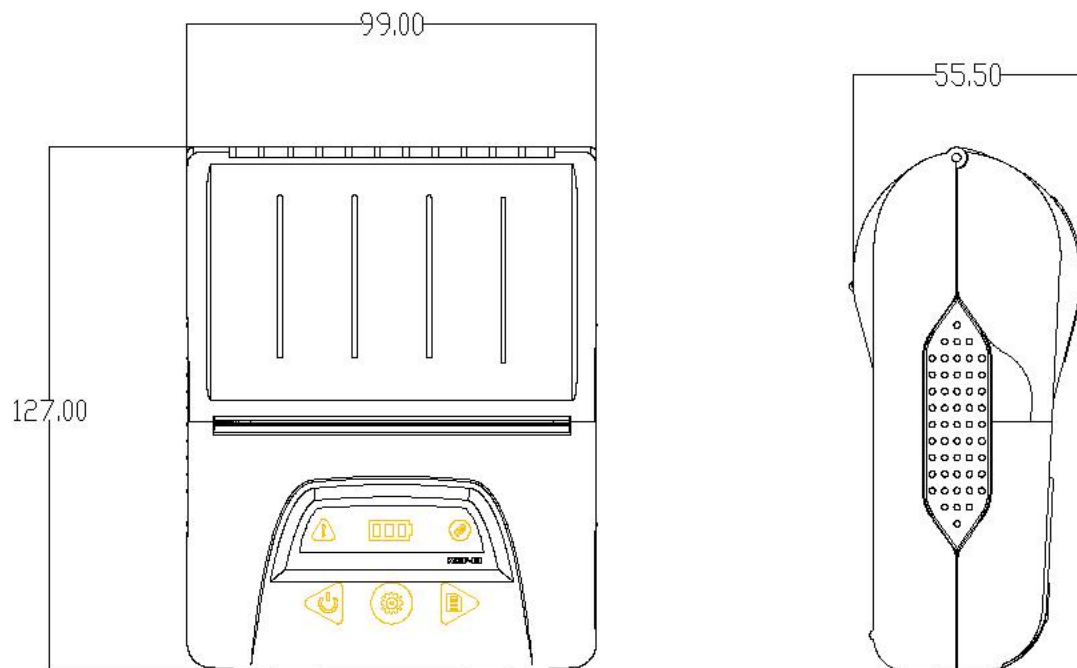
1. Overview

This product is an efficient and portable thermal printer with small weight, high durability and long continuous printing time. It is widely used in mobile POS, retail, parking tickets, logistics, ship transportation, warehouses, property bills, etc.
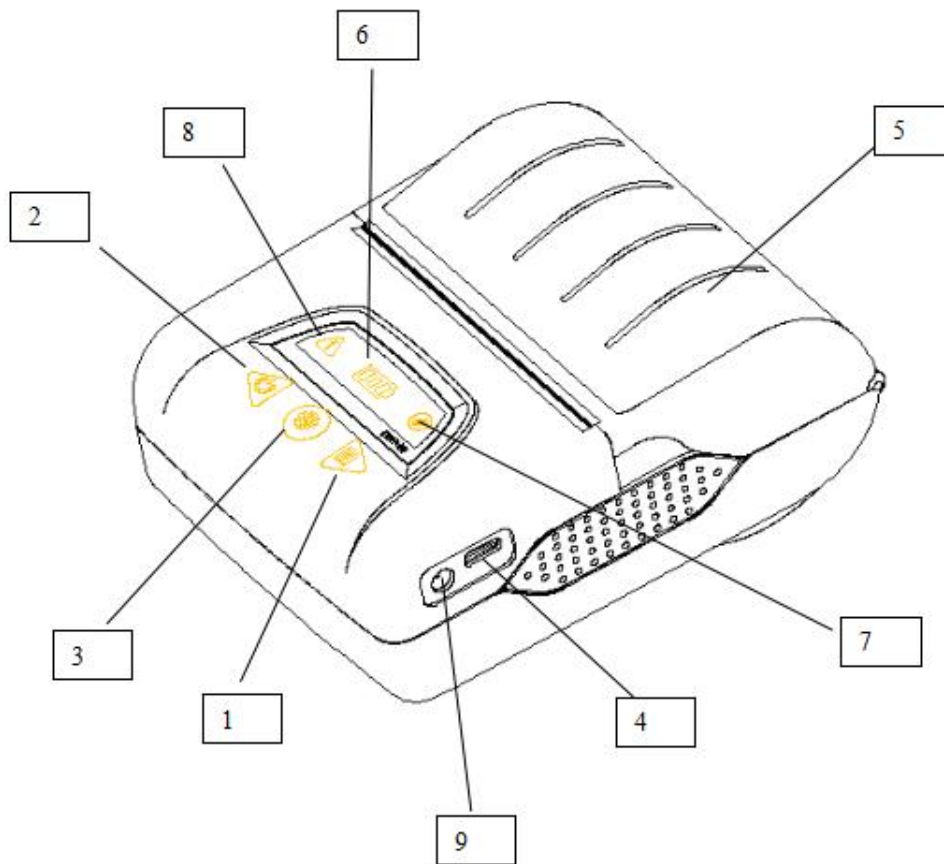
1.1 Features

※ Equipped with lithium battery, can work continuously for 8 hours

※ Portable device for outdoor use

※ Support 1D barcode and 2D(QRCODE) barcode printing

※ 7.4V/1500mAh large capacity battery with low power consumption design and automatic shutdown function, longer working time※ USB，Bluetooth，wire and wireless interfaces optional

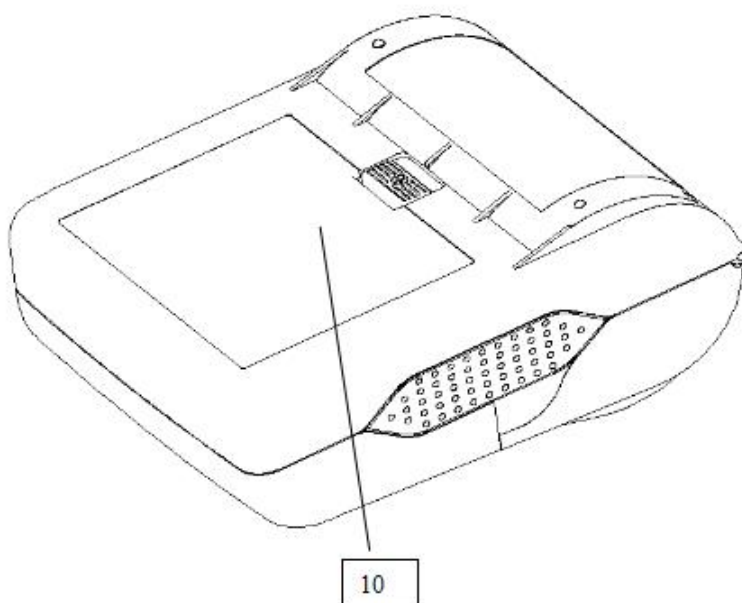※ Support Windows printing driver and Android printing and developing.

2. External
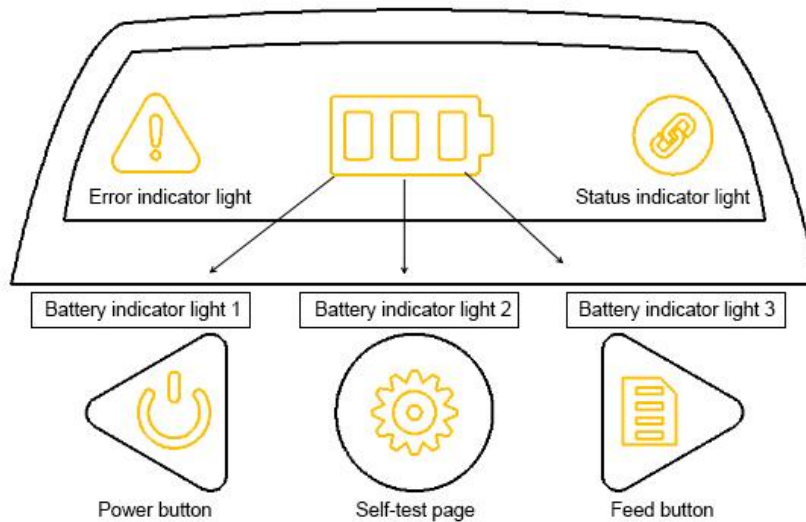
3. Product Part Names

3.1 Front

3.2 Rear

1.Paper Feed Button	2.Power Button	3.Function	4.Type-C USB
5.Paper Cover	6.Battery status light	7.Status indicator light	8. Error indicator light
9.DC charging port	10.Battery		

4. Specification

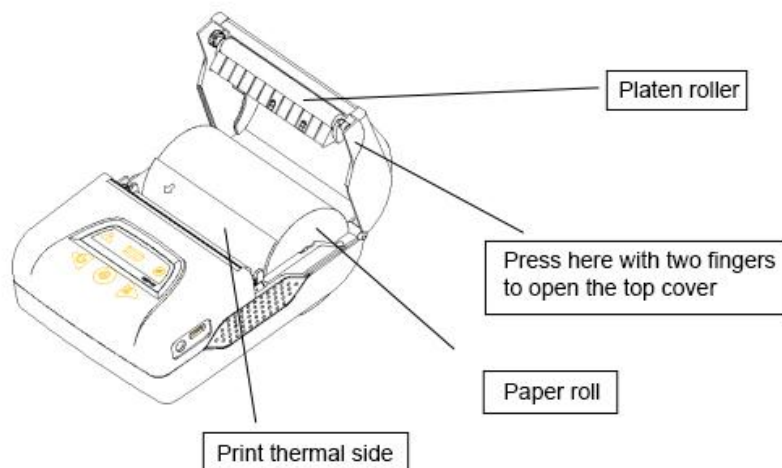|			
Print	Print Method	Thermal printing	
	Print Speed	Max:50mm/s	
	Resolution	203dpi(8dots/mm)	
	Print Width	72mm	
Paper	Paper Width	80±0.5mm	
	Diameter	Max:50mm	
	Inner Diameter	Min:13mm	
	Thickness	0.06-0.09mm	
Physical	Dimension （W*D*H）	99*127*55.5mm	
Character	Print Font	ANK: 9X17, 9x24,16x18,12x24 GBK:24x24	
	Character Per Line	ANK:48, 42, 32 GBK:24, 16	
Reliability	TPH	＞50km(12.5% print ratio or less)	
Barcode	1D	UPC-A,UPC-E,EAN-13,EAN-8,CODE39,CODE93, CODE128,CODEBAR,ITF25	
	2D	QR CODE	
Interface		Type-C USB + Bluetooth	
Power	Battery	2000mAh 7.4V	
	Recharge adapter	DC 12V /1A or 5V/1A USB charging	
Cutter type		Tear-Bar	
Command		Compatible with ESC/POS command set	
Detection	No paper detection	Photoelectric detection	
Environment	Operating Temperature	0°C~50°C	
	Operating Humidity	20%~85%RH	
	Charging Temperature	5°C~40°C	
	Charging Humidity	20%~85%RH	
	Storage Temperature	-20°C~60°C	
	Storage Humidity	5%~90%RH	

5. Basic Usage

5.1 Power on/Power off

Under the close state, Press [Power] button for 2 seconds, the printer enters to the working state, the power indicator light.

Press [Power] button for 2 seconds to power off, then all the indicator light will be off.

5.2 Paper Installment

Operation methods:

① Use two fingers to press the position shown in the figure above to open the paper compartment cover;

② Put the paper roll into the paper bin, pay attention to the direction of the paper, if the position is reversed, the printer will print blank pages;

③ Pull the paper roll out of the paper bin;

④ Make sure paper is in the center, then close the paper cover.

5.3 Self-test

The user can inspect the printer by themselves after getting the printer. To check the current state and setting.

Method 1：

Power off, Hold [FEED] button, and then press [POWER] button, the printer will print out the self-test page, which includes the printer current state, setting, etc.

Method 2：

Power on, long press the middle Test button to print a self-test.

5.4 Paper feed

Under normal condition, press [FEED] button, printer starts to feed paper and will stop till 20mm.

5.5 Enter Dump mode

Power off the printer, take out the paper roll. Hold the [FEED] button, power on the printer. Release the feed button and put into the paper roll. Now the printer will be in DUMP mode and print all data received from the transmitter as hexadecimal values.

5.6 LED indicator light & buzzer signal description

The printer has a buzzer and status indicator light (blue), error indicator light (red), and battery status indicator light (blue) to prompt the user to printer status. The indicator light is used to indicate the printer current state, and the buzzer is used to indicate changes of printer status.

Printer Status	Light status			Buzzer
	battery status indicator light	Error indicator light	Status indicator light	
Normal	Light on dependent on battery power	Not on	When Bluetooth is connected successfull y, the light	Not beep
Power off For charging	horse race light	Not on		Not beep
Power on For charging	Light on dependent on battery power	Not on		Not beep

Charger ok	The three battery indicators are always on	Not on	will be on	Not beep
Low power	The first battery indicator flashes quickly	Not on		Not beep
Printer mechanism is not connected	Light on dependent on battery power	Flashed 2 times		Continuous beeping 2 times
Paper end		Flashed 3 times		Continuous beeping 3 times
Over temperature		Flashed 5 times		Continuous beeping 3 times

5.7 Auto Sleep, Auto Wakeup, Auto Shutdown

In order to save energy and prolong the service life, KMP-III printer adopts advanced auto sleep and auto wakeup technology.

After the printer is power on, if the host does not send any data to the printer or do not press any button on the printer within 2 minutes, the printer will automatically enter sleep mode, and the battery status indicator light will flash slowly

After sleep, the power loss is greatly reduced, without affecting the use of the printer. When any data is received, the printer wakes up without any other manual intervention.

The printer will shut down automatically if not receiving any data within 2 hours after powering on. You need to manually start the printer.

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Remarks: The factory default setting is to enter sleep mode after 2 minutes and automatically shut down after 2 hours. The sleep and shutdown time can also be set according to needs.

5.8 Battery charging method (choose one)

1.USB port power adapter charging (5V/1A）

2.DC Interface power adapter charging(12V/1A)

Plug the power adapter into a power outlet,AC:100V-240V(50-60Hz）

Plug the DC/USB port into the printer charging port.

Note: 1. If you use a power adapter that is not provided or approved by our company, the printer may be damaged.

2. Do not remove the battery during charging.

3. You can print while charging.

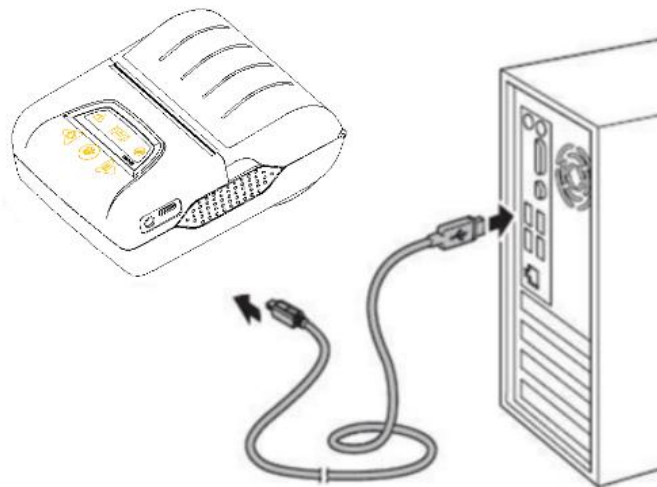4. If DC and USB are plugged in at the same time, the DC interface is used for charging by default

6. Communication

KMP-III printer has two communication ways.

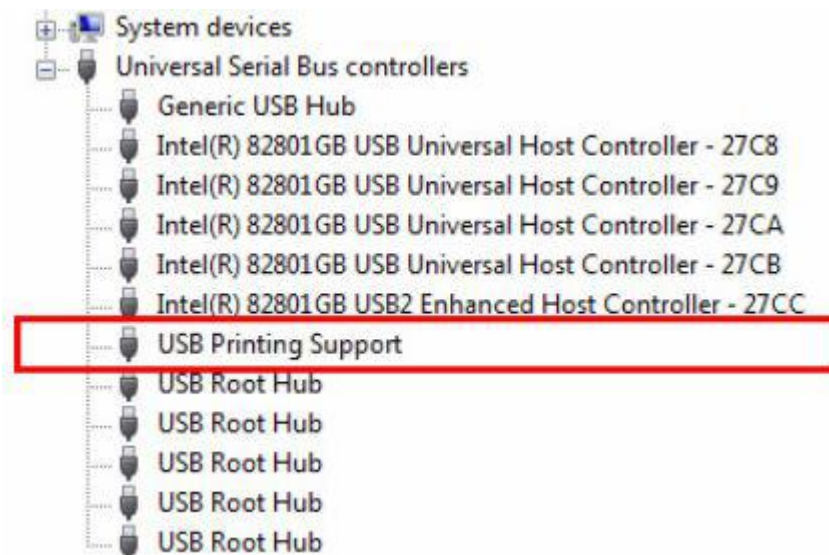①Wire：USB ②Wireless：Bluetooth

6.1 USB communication

KMP-III printer has a USB wire interface, it is implemented by conversing Type-C

USB to USB2.0.

Note: USB has two types: virtual serial port and print port. Default is print port.

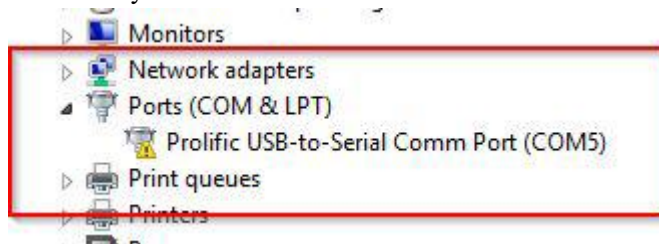　　①USB as the " print port"

After connecting the printer to computer by USB, open "My Computer" - "Device Manager" - " Universal Serial Bus Controllers ". If it has this "USB printing support" icon, it means the USB interface has been properly identified and used.

②USB as the "virtual serial port"

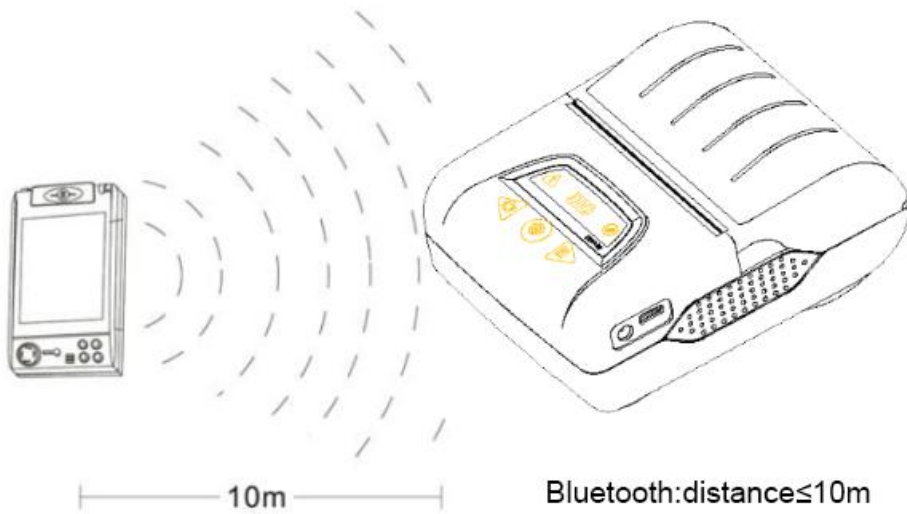The USB drive, PL2303 drive, should be installed firstly.

After connecting the printer to computer by USB, open "My Computer" - "Device Manager" -

"COM port". If it has this "Prolific USB-to-Serial Com Port" icon, it means the driver is installed

successfully and used.

For instance: If you unplug the USB cable, above icon disappears, and it appears when

reconnected. That means COM7 is the port which connects printer to computer.

Remark: Print port and virtual serial port switching operation method

6.2 Bluetooth communication

Bluetooth:distance≤10m

Matching steps:

1. Power on the printer.

2. Host device search for external Bluetooth device

3. If you have more external Bluetooth devices, select KMP-III printer.

4. Enter the default password "0000"or obtained Bluetooth password by printer self-test page.

5. Complete matching.

7. Maintenance

7.1 Daily maintenance of printers

1. Cleaning of the exterior of the printer and the paper bin: gently wipe the surface of the printer and the inside of the paper bin with wrung-out wet cloth.

2. Cleaning of printer mechanism: the printing mechanism should be cleaned regularly, especially when the printing quality drops. Method of cleaning: wipe the part marked with thick black frame with absorbent cotton dipped in anhydrous alcohol.

3. If water is found inside the printer, please shut it down immediately and take out the battery, and let the printer dry naturally.

4. If you do not use the printer for a long time, please remove the battery and store it separately.

7.2 Use and save printing paper

1. Please avoid storing the newly purchased printing paper in direct sunlight or high temperature. Please do not tear the wrapping paper when saving.

2. The printed documents should be kept at room temperature (around 20 degrees Celsius) under the condition of keeping out of light, which can effectively extend the preservation time of the documents.

3. If the user's documents need to be kept for a long time, please choose our thermal paper.

8. Fault diagnosis

Fault Phenomenon	Fault Cause	Solution
It beeps twice continuously .	Paper out	Install the paper roll correctly
It beeps twice discontinuously	Power low	Please charge
It doesn't print any content when feeding.	Install paper roll in opposite direction.	Re-install paper roll
Printing faint	Printer mechanism is dirty without cleaning it	Clean the mechanism
	poor print quality on printing paper	Please set printing density and or use better quality paper
It beeps fifth time continuously.	Paper cover has been open	Close the paper cover
It beeps third time continuously.	Paper out	Load the paper roll
The printed ticket is getting blurry within months or even weeks	The temperature of the environment in which the tickets are stored is too high	Please choose thermal printing paper with a longer shelf life
Printer auto power off	Battery power runs out	Please charge immediately

Note: Using poor quality printing paper will cause the printer printing faint in a short time.