

# KMP-II Portable Thermal Printer User Manual



Protocol: Zhu Chunyan 2018.04.17

Audit: Huang Zongze 2018.04.18

Standardize: Hu Riyu 2018.04.19

Authorize: Wang Huangyong 2018.04.20

Company: Xiamen Cashino Technology Co., Ltd.

Tel: 0592-5517253 Fax: 0592-5231815

Address: 4/F, No.318, Tongji South Road, Jimei District, Xiamen, China.361021

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KMP-II portable thermal printer product specifications revision record

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## **Precautions**

◆ Safety Precautions

In using the present appliance, please keep the following safety regulations in order to prevent any hazard or material damage.



**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



**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.

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



**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



**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



◆ Operation Precautions

DO NOT print more than 1 meter continuously, otherwise, the printing head may be damaged.

DO NOT allow water or other liquid enter or leak into the printer, also DO NOT allow the printer to be exposed to rain, otherwise, damage may result.

DO NOT open the printer cover while printing, otherwise, the printer may not work properly.

When using USB printing, DO NOT unplug the USB cable while printing, otherwise, some printing data may be lost.

When print in Ir or IrDA mode, be sure the Ir window of the host equipment face rightly the Ir window of the printer, the distance should be within the range of 50cm, and the angle should be within the range of 30°.

When using Bluetooth printing, transmission distance should be within 10 meters, otherwise, the printer will not print or print garbage.

Too high(50°C) or too low(-10°C)temperature and too high(Over 80% relative humidity) or too low (Below 20% relative humidity) environment humidity both affect the quality.

The printed paper in poor quality or stored for a 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 lifetime of the battery.

#### ◆ **Storage Precautions**

The printer should be placed in such an environment that the temperature is between -20°C and 70°C, and the relative humidity is between 5% and 95%.

Remove the battery if you do not intend to use the unit for a long time, otherwise, the battery and printer may be damaged.

Ordinary thermal printer paper cannot be kept for a too long time. If you need to keep the receipt for a long period, please choose long-acting thermal paper.

The paper should be kept away from high temperature or intense direct sunlight.

#### ◆ **Battery Safety Precautions**

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

Neglecting to heed the following instructions can result in battery overheating, combustion, explosion, damage and/or decline in performance and 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, seawater, etc. enter or leak into the battery interior. If the safety mechanism within the battery becomes burned out, any charging of the battery can result in abnormal electrical current flow and/or voltage that causes an abnormal

chemical reaction, which may then cause the battery to overheat, ignite, and/or explode.

4. Do not use or leave the battery in a location exposed to high temperatures, such as next to a stove, etc. Excessive heat exposure can cause damage to the resin case and/or insulating materials, this may result in battery overheating, combustion, and/or explosion.

5. When charging the battery, use the exclusive charger or follow the charging

requirements outlined by CASHINO. Charging under conditions not included in such requirements (higher temperature, higher voltage/larger electrical current, use of a modified charger, etc.) can result in excessive battery charging and abnormal electrical current flow and/or voltage that causes an abnormal chemical reaction, which may then cause the battery to overheat, ignite, and/or explode.

6. The battery has clearly delineated plus and minus poles. When inserting the battery into the charger and/or product, make sure to confirm that the battery is properly aligned. Reverse insertion will cause reverse charging that can result in an abnormal chemical reaction, which may then cause the battery to overheat, ignite, and/or explode.

7. Do not place the battery in contact with an electrical power outlet and/or an automobile cigarette lighter jack. Doing so can inflict high voltage that causes excessive electrical current flow, resulting in battery overheating, combustion, and/or explosion.

8. Do not heat the battery or place it in a fire. Doing so can melt the insulating materials and/or damage the safety mechanism or safety equipment, allowing the electrolytic solution to ignite and resulting in battery overheating, combustion, and/or explosion.

9. Do not reverse the connection of (+) and (-) electrodes of the battery. Charging the battery in reverse polarity may produce an undesired chemical reaction inside the battery cell, causing unexpected behavior during discharging such as overheating, explosion, or fire.

10. Do not allow the battery's (+) and (-) poles to come into contact with any metals. In addition, do not carry or store the battery together with metal items, such as necklaces, hairpins, etc. Resulting short circuits within the battery can cause excessive electrical current flow, resulting in battery overheating, combustion, and/or explosion as well as potential overheating of the adjacent metal items (necklaces, hairpins, etc.).

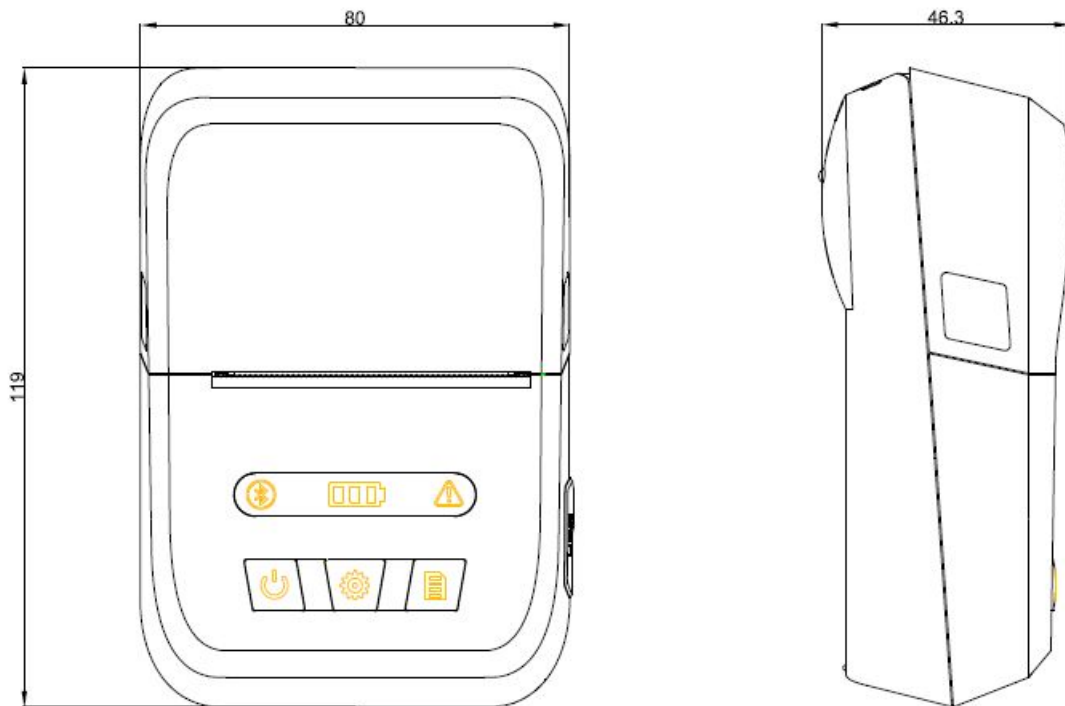
## **1. Product description**

This product is an efficient portable printer with small weight, high durability and long printing time. It is widely used in mobile POS, retail, parking ticket, logistics, shipping, warehouse, property bill, etc.

### **1.1 Product features**

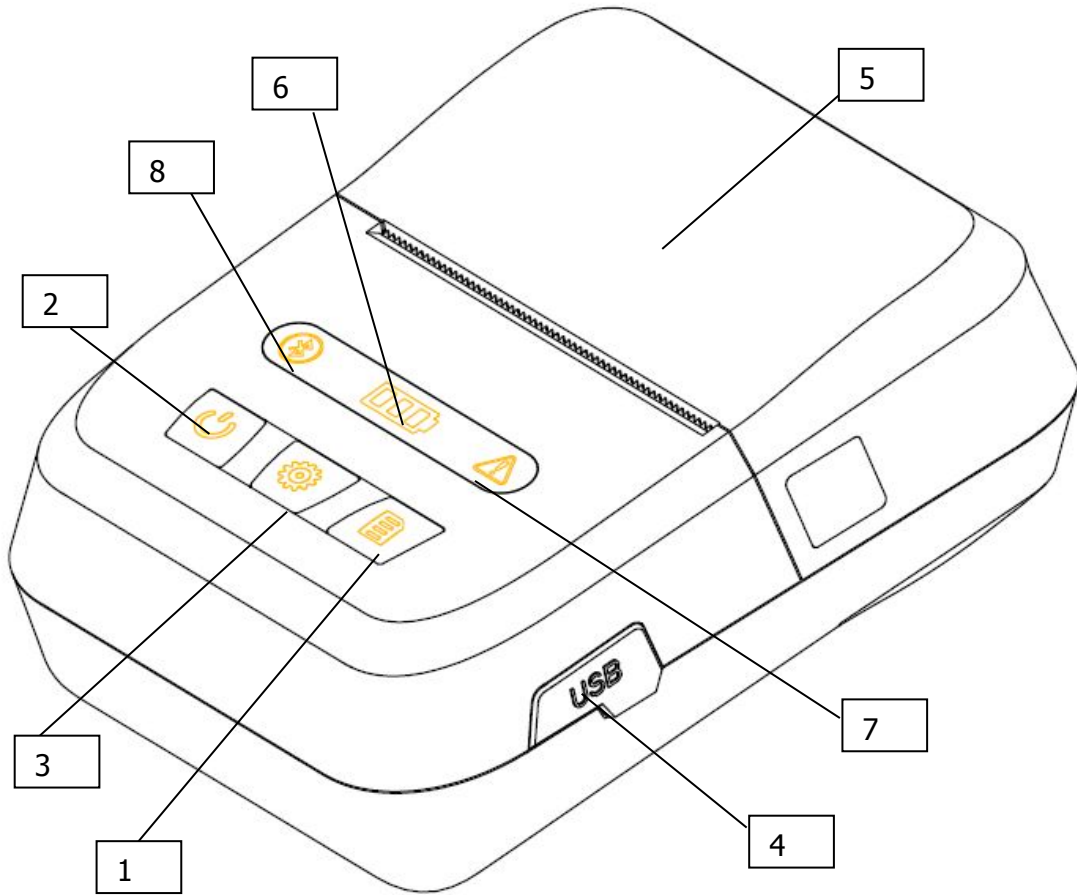
- 1) Equipped with lithium battery and support 8 hours of working time continuously .
- 2) Portable device suitable for outdoor usage.
- 3) Support one-dimensional code printing and QRCODE two-dimensional code printing.
- 4) 7.4V/2000mAh high-capacity battery, low power consumption design, automatic sleep and wake function, long working time.
- 5) WiFi / Bluetooth / USB interface for optional.
- 6) Support Windows printing driver, support Android and IOS printing development.

## 2. External

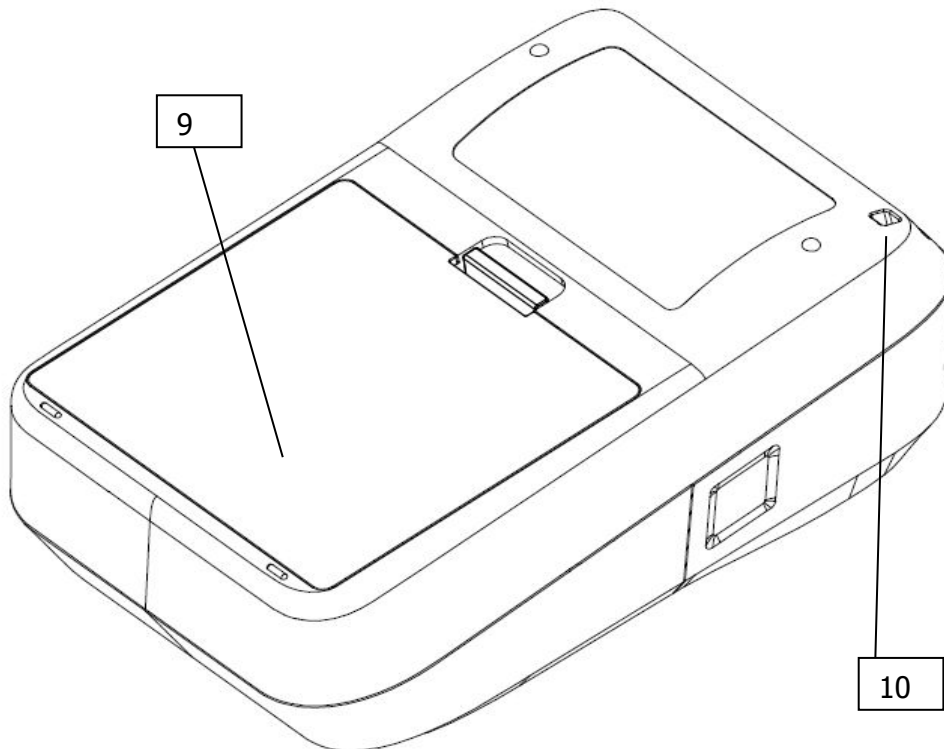


## 3. Product component

### 3.1 Front



**3.2 Rear**





1. Paper Feed Button	2. Power Button	3. Function Button	4. Micro USB
5. Paper Cover	6. Battery status light	7. ERROR indicator light	8. Status indicator light
9. Battery	10. Belt Strap Hole		

## 4. Specifications

Printing	Printing Method	Thermal printing
	Printing Speed	50~80mm/s
	Resolution	203dpi(8dots/mm)
	Printing Width	48mm
Paper	Width	57.5±0.5mm
	Diameter	Max:40mm
	Inner Diameter	Min:13mm
	Thickness	0.055-0.09mm
Physical	Dimension (W*D*H)	80*119*46.3mm
	Weight(g)	230g (including paper roll)
Character	Print Font	ANK: 8x16,9X17, 9x24,12x24 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,EAN8,CODE39,CODE93, CODE128,CODEBAR,ITF25
	2D	QR CODE
Interface		Micro USB
Power	Battery	2000mAH 7.4V rechargeable Lithium battery
	Recharge adapter	12V,0.8A adapter
Cutter Type		Tear-Bar
Command		Compatible with ESC/POS command set
Detection		No paper 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

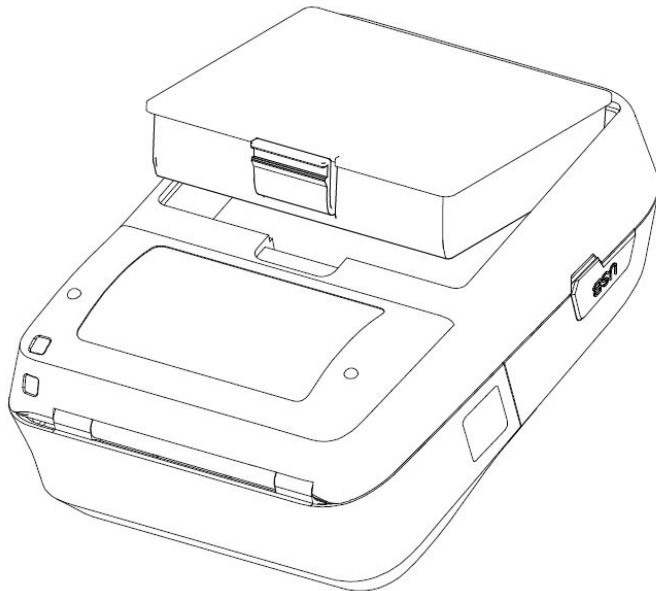
## 5. Prepare before using

### 5.1 precautions

The battery is not inputted into the printer when it comes out factory. Please put the battery into the slot.

Note: As the battery is not charged at the time of purchase, charge the battery prior to product use. The battery also needs to be fully charged after a long-term storage, it will work best.

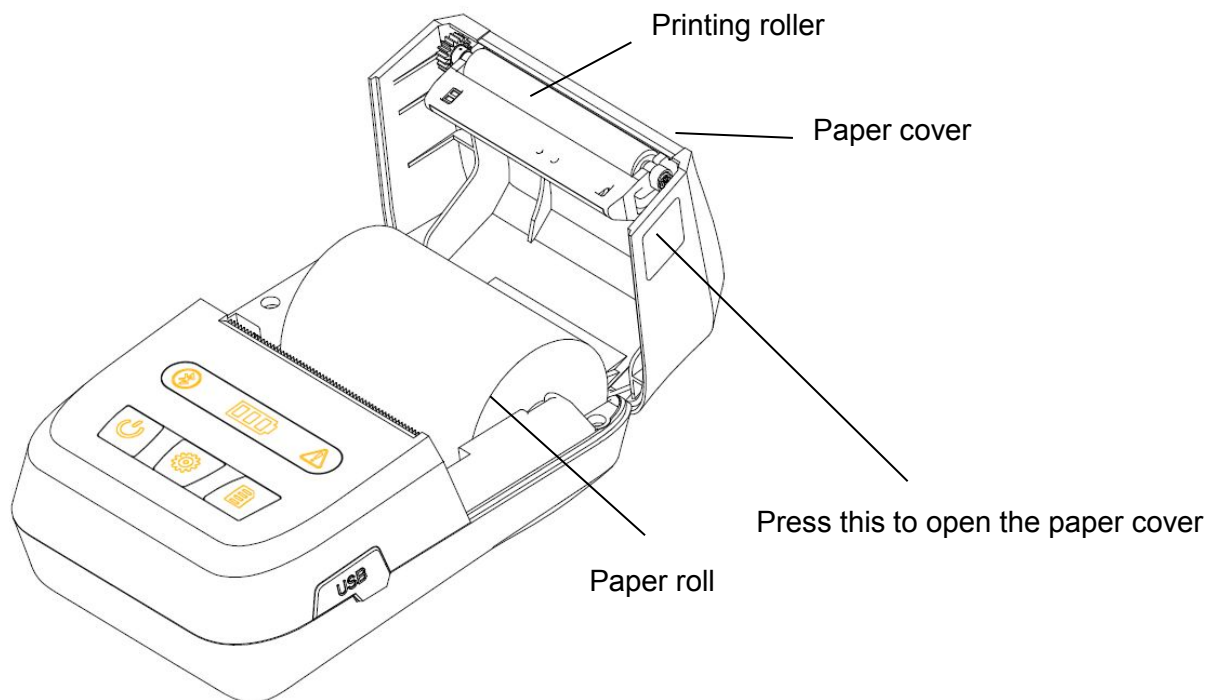
### 5.2 Battery Installation



① As above picture shown, Insert the battery on the rear side of the printer, aligning the battery hook properly.

② Push the battery into the slot until a snapping sound is heard.

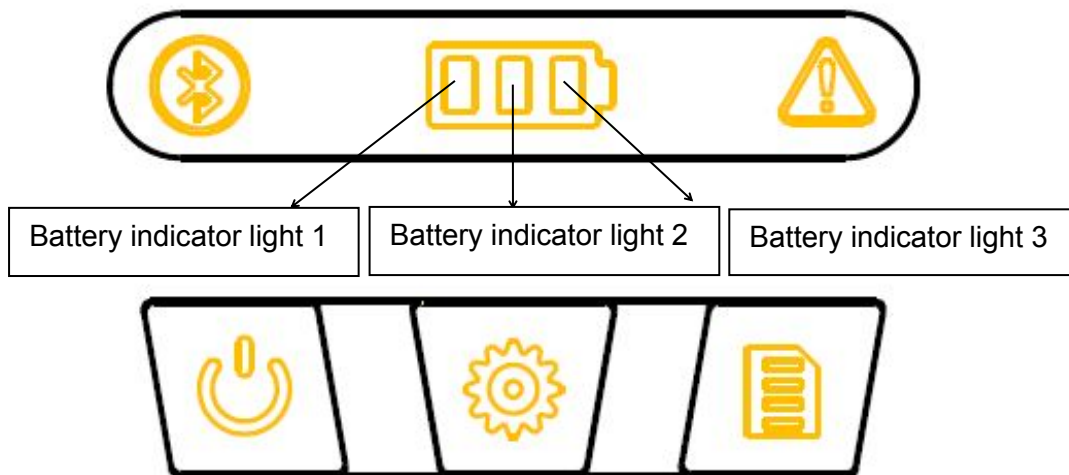
### 5.3 Paper Installation




#### Operation methods:

- ① Press the open button to open the paper cover.
- ② Put the paper roll into the paper bin, pay attention to the direction of paper. If the position is reversed, the printer will print blank pages.
- ③ Pull the paper out of paper bin.
- ④ Make sure paper in the center, then close the paper cover.


### 6. Basic function using



### 6.1 Power on

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



### 6.2 Power off

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


### 6.3 Self-Test

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

Method:

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.

### 6.4 Paper feed

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

### 6.5 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.

### 6.6 LED indicator light & buzzer signal description

The printer has a buzzer and status indicator light (green), 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 indicator light 1	Battery indicator light 2	Battery indicator light 3	Error indicator light	Status indicator light	
Normal-Not charging	low power	Quick flashing	Not on	Not on	Not on	When WIFI or Bluetooth is connected successfully, the light will be on.	a beep every minute
	Normal power	Light on dependent on battery power			Not on		Not beep
	100% charge	on	on	on	Not on		Not beep
Normal-charging	low power	Slow flashing	Not on	Not on	Not on		Not beep
	Normal power	Flash dependent on battery level			Not on		Not beep
	100% charge	on	on	on	Not on		Not beep
Sleep mode	low power	Super slow flashing	Not on	Not on	Not on		Not beep
	A third of battery power	Super slow flashing	Not on	Not on	Not on		Not beep
	Two-thirds of battery power	Super slow flashing	Super slow flashing	Not on	Not on		Not beep
	Full battery power	Super slow flashing	Super slow flashing	Super slow flashing	Not on		Not beep
Power off for charging	charging	horse race light			Not on	Not beep	
	Charger ok	Not on	Not on	Not on	Not on	Not beep	
Paper end		Light on dependent on battery power			on	Not on	Beep constantly

## 6.7 Auto Sleep, Auto Wakeup, Auto Shutdown

In order to save energy and prolong the service life, KMP-II 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 1 minute, the printer will automatically enter sleep mode, and the red status indicator light will be often on.

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.

Power loss will be greatly reduced after entering the sleep mode. This does not affect the printer usage. Without any other manual intervention, the printer will wake up once receiving any data.

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

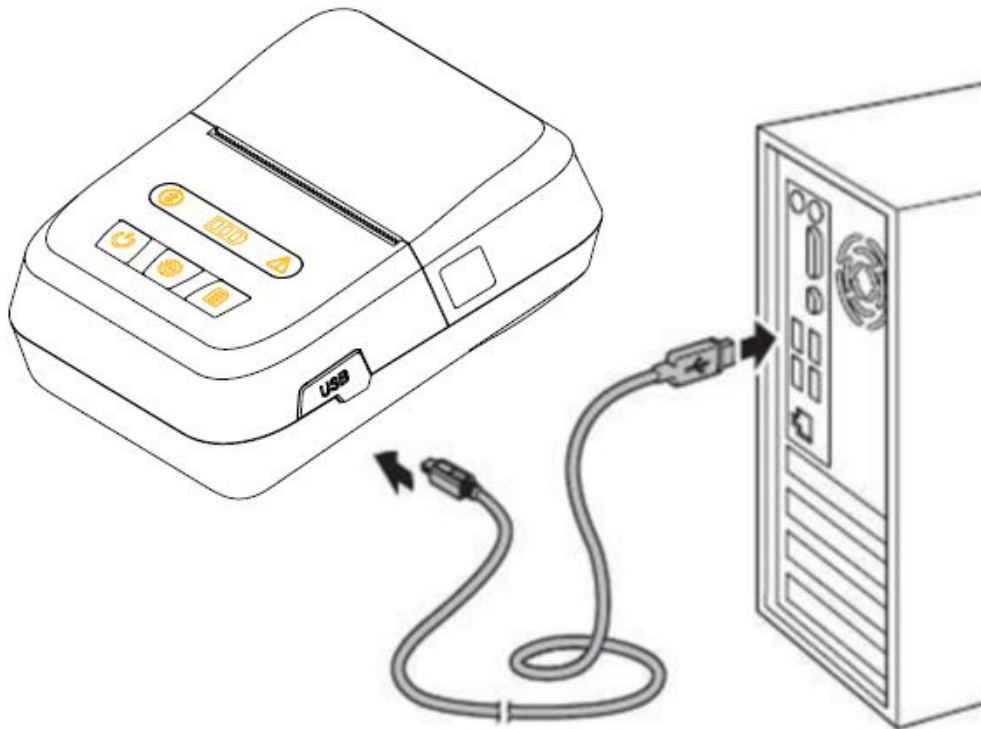
## **7. Interface**

KMP-II printer has two communication ways.

①Wire: USB ②Wireless: Bluetooth/ WIFI

### **7.1 USB communication**

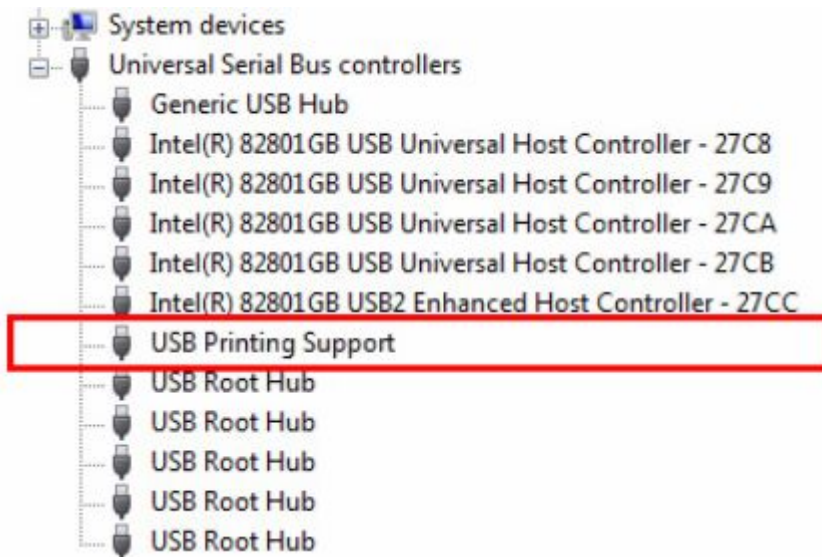
KMP-II printer has a USB wire interface, it is implemented by conversing Micro USB to USB2.0.



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

①USB as the "print port"

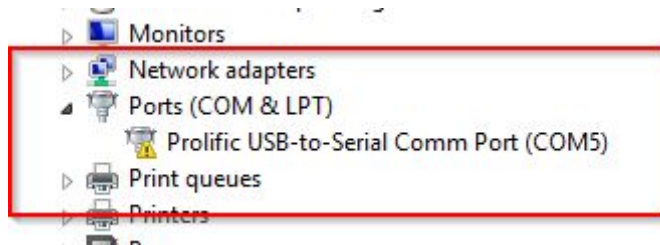
After connecting the printer to computer by USB, open "My Computer" - "Device Manager" - " Universal Serial Bus Controllers ". If it has this "USB printing support" icon, it means the USB interface has been properly identified and used.



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 Comm 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**

Power off the printer. Hold down the [FEED] button, then press [POWER] button. The printer will print self-test page. Do not release the [FEED] button until it prints test-page completely. The test page will hint the switching operation method as below picture shows. Then release the [FEED] button and press [FEED] button for 2 second to change USB type.

CURRENT USB TYPE:

PRINT

Press FEED button two Second

To change USB TYPE

Press FEED button To

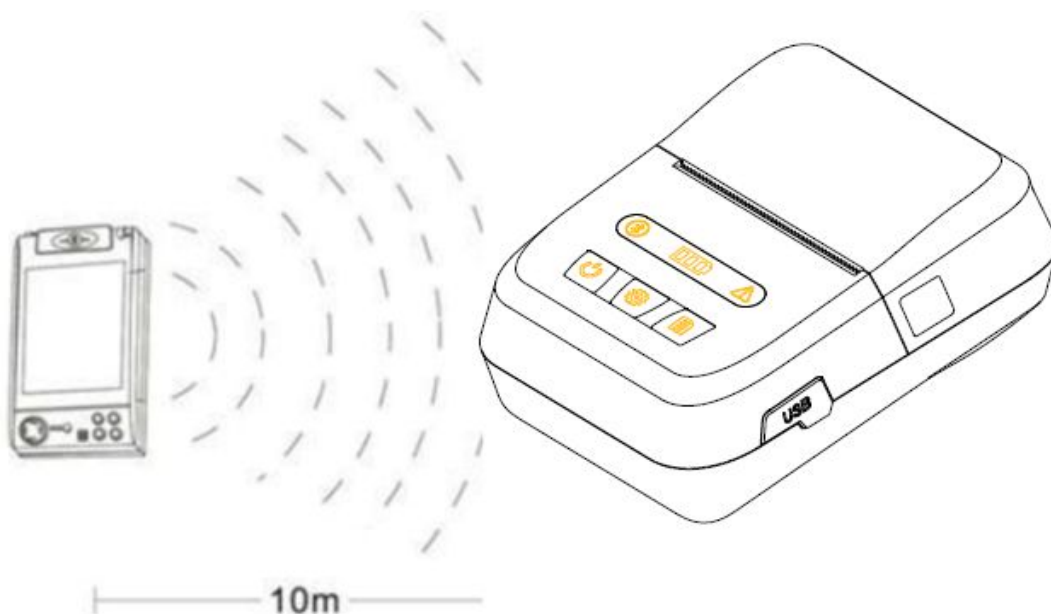
Exit change USB TYPE

CURRENT USB TYPE:

Virtual serial port

Exit CHANGE USB TYPE MODE

### 7.3 Bluetooth communication



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



5. Complete matching.

## **7.4WIFI communication**

Printer can be connected to other sites, such as PDA and PC, support wireless LAN application mode of communication.

The wireless LAN environment (IP,SSID, authentication, encryption) can be checked through the self-test page.

Printer IP address, cannot conflict with other terminal IP address

Com: Setting by yourself.

Subnet Mask: In accordance with the router.

Gateway: In accordance with the router.

**Note: IP and gateway must be on the same network with routers.**

## **8. Maintenance**

### **8.1 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.

### **8.2 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.

## 9. 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 third time continuously.	Paper cover has been open	Close the paper cover
The printed ticket is getting blurry within months or even weeks	Bad quality of thermal paper	Please choose a thermal printer paper with a long shelf life
	The temperature of the environment in which the tickets are stored is too high	Please store at room temperature (around 20 degrees Celsius)
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.