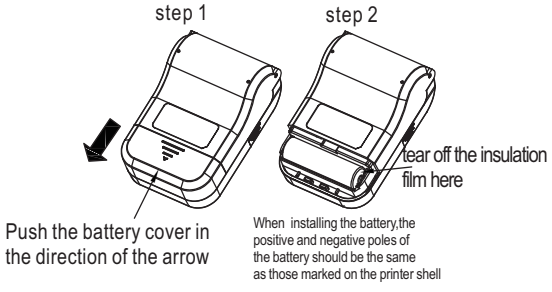
Portable Thermal Printer

User Manual

Please tear off the insulating film as the following steps before use



Precautions

◆ Safety Precautions

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

◆ Operation 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.

If print with serial interface, should not unplug the interface cable in the course of printing, or else some printing data may be lost.

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.

In the black mark detecting mode, the printer requires that the preprinted black mark is accordant with the black mark specifications (details please refer to 4.2); otherwise the black mark can not be detected correctly.

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.

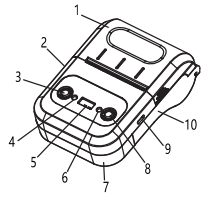
Ignore the following instructions may cause battery overheating, fire, explosion, damage and/or performance, and reduced product life.

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.

11) Do not throw or heavy attack the battery. If internal safety device of the batteries burn, the battery charging may cause any abnormal current and/or voltage, and abnormal chemical reaction, and lead to the battery overheat, ignite, and/or explosion.

Chapter 1 Product introduce

1.1 Printer appearance



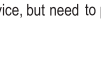
01. paper cover
02. printer case
03. power button
04. power lamp
05. power indicator lamp
06. paper indicator+Bluetooth indicator
07. battery case
08. feed button
09. Type C USB port
10. bottom cover

1.2 Standard accessories

TYPE-C wire

paper roll

Optional accessory


AC adapter

Chapter 2 Function characters

2.1 Specifications

Printing method	Line thermal printer	
Printing speed	50~90mm/s	
Dot pitch	8dots/mm, 384 dots/line	
Printing width	48mm	
Paper width	57.5±0.5mm	
Paper roll outer diameter	40mm (Max.)	
Paper roll inner diameter	13mm(Min.)	
Paper thickness	60-80um	
dimension(WxDxH):	119.3*81.5*47mm	
Weight (g)	199(non- including the paper roll)	
Printing characters	ANK: 8x16,9X17, 9x24,12x24 GBK:24x24	
Characters/line	ANK:48, 42, 32 GBK:24, 16	
Life cycle time	50km(printing density under 12.5%)/100 million pulses	
Barcode type	Chinese(support all GBK,BIG5,UTF-8),character set,ASCII characters, some full costom characters,some half-width custom characters,code CODE39,CODE128,EAN13,etc.EAN8,CODABAR,CODE93,ITF, QRCOE,graphics.	
	2D: QR CODE, PDF417	
interface	Bluetooth V2.0 (Android) TYPE C port	Bluetooth V4.0 (IOS) TYPE C port
Power	2600mAh 3.7V rechargeable Lithium battery	
Recharge adapter	USB recharging / AC adapter	
Black mark test	Supported	
Paper feeding	Easy paper loading	
Paper cut	By hands	
commands	ESC/POS compatible with order sets	
operate setting	Temperature -10°C~50°C ; Humidity 20%~85%	
Recharge Setting	Temperature 5°C~40°C; Humidity 20%~85%	
Storage Setting	Temperature -20°C~70°C ; Humidity 5%~95%	
Standard accessories	li-ion battery, AC adapter, USB interface cable, Long-term preservable paper, user manual	
Optional accessories	leather coat/Car charger	
paper detection	When the paper is used up,the printer light will flash,and the buzzer will alert;	
power alarm	The buzzer will alert you when the rechargeable battery is running out of power	

Chapter 3 Using method

3.1 Power on

When the power on,press the power button [POWER] for is the printer will begin to work and the power lamp 1s lighting(green color)

Power off
printer will be off and al the indicator lamp is off.
When the power off,press the power button [POWER] for 2s the

3.2 Self test

Users could do the self test everytime to get the state for printer.The way to self test:

When power off,press the[POWER] and [FEED] together then will come up 'beep'voice.

Users could get the state,set up,puantity of electric charge and ID of bluetooth from self test page.

3.3 Feed power

When the printer is working normally,press the [FEED] then the printer starts to take paper.

3.4 Charge

The printer's power indicator(green) and paper ligh (red) flash simultaneously when printer's battery is near to use out

The way of charge as follows:

When the power indicator lamping means normla charge.(200V and 50HZ)

4. Print connection and printing

4.1 Bluetooth connection

Power on ,Search the printer with Bluetooth communication devices such as android terminal, select the corresponding printer and enter the password "0000" for connection, which can be used after successful connection

4.2 USB connection

The printer can use with computer after USB connecting to the computer and install the printer driver (please ask the driver from the seller)

LED Indicator and buzzer definition

Indicator and buzzer instruction

Printer state	Bluetooth state	power indicator lamp(green)	Power lamp (green)	power indicator (red)	Bluetooth lamp (red)	
Power on		Power state indicating	Lamp on always			Beep one sound
Stand by	unconnected	Power state indicating	Lamp on always			none
	connected	Power state indicating	Lamp on always		Lamp on always	
charging		Power Lamp blink				
charging error						
Power off						Beep two sound
Paper lack			Lamp on always	blink		Continuous single beep
temperature too high			Lamp on always	blink		
Voltage too low			blink	blink		Three beeps every three seconds

warranty card

User information records

Product model		date	Fault and handle	Finish date	customer
Product Serial No.					
Purchase Date					
Customer name					

Warranty terms

1. please fill the information and keep this card for warranty

1.1 Please keep this card and ask the seller to seal it.

1.2 Please provide this card with the warranty.

1.3 The information provided should be true ,otherwise it is invalid.

1.4 The warranty period is one year. If there is any problem of printer parts during the warranty period,company provides free maintenance and component replacement.

2. The following situations are not covered by warranty

2.1 Damage caused by failure to follow instructions and incorrect installation

2.2 All man-made or accidental damage

2.3 Repair or modification not approved by the company, and The product seal sticker is broken.

2.4 Aging, bruising, and scratches on the surface of the product.

3. After the warranty expires, the customer can still get the company's maintenance service, but need to pay The corresponding fee.