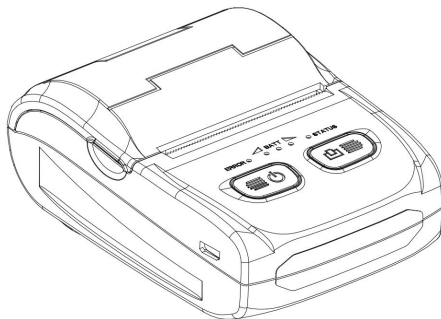


Portable Thermal Printer

User Manual



Please read this manual carefully before using it, and keep it for future reference

About this manual

Thank you for your purchase of our company's Portable thermal Receipt printer.

This manual can help you learn to use this product. Please read this manual before use, and safekeeping, so that all the use of this product can read it.

Note

Due to our constant efforts to improve and upgrade the product's function and performance, our company reserves the right to change the hardware and software specifications in the manual without prior notice.

If you find any errors or missions in the contents of this manual, please tell us or our agent,thank you very much.

Without the prior written permission of our company, the contents of the relevant manual attached to the product shall not be reproduced, transmitted, transcribed, stored, etc..

Statement

This product is type A product, may cause the radio interference in the living environment , in this case,the user need to protect the interference with effective protection measure

Safety tips

Please follow the following notes when using the printer

- Do not disassemble the printer personally, pls read this manual before use.
- Please shut off the power supply when the failure occurs. When you find that the printer power adapter or battery smoke or has bad smell, please unplug the power adapter immediately, and take out the battery, pls note to avoid being burned.
- Please do not use the printer at the gas station, fuel warehouse, etc.
- When charging, please put the printer and the power adapter on the ventilation place with environment temperature $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$, and use the manufacturers standard power adapter.

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The use of unauthorized power adapters may cause danger, and violation of the manufacturer's warranty terms.

- When the printer is printing, please do not open the paper cover, otherwise it may appear unexpected situation, and even damage the printer.
- After printing, print head is still at high temperature, do not touch, so as not to burn.
- Pls do not use dissolved substances, such as: benzene, thinner or alcohol wipe to clean the printer casing. At the same time, please do not use corrosive chemicals and detergent to contact printer. To avoid damage to the printer.
- Pls use our company approved or regular factory produced printing paper, otherwise it may lead to poor print quality, and even damage the printer core.
- If you have to store the printer for a long time, please be sure to remove the battery in the printer and for separate storage, otherwise may cause the battery failure, and even leakage, and then damage the printer.

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- Before replacing the battery, please make sure that the printer has been shut off, And please confirm that the power supply has been cut off.
- Whether the letters on the receipt stay long is related to thermal paper quality, if you want to print the long-term preservation bills, please choose a high quality thermal paper.
- The printer is only suitable for using in the altitude below 2000M.
- The printer is only suitable for use in non tropical climates.

Please follow the following precautions when using the battery

- Before use, please read this manual and battery surface identification.
- Pls charge the battery indoor in the appropriate emperature, if charging temperature is too high, will cause the battery heat, smoke, burning or deformation, and even explosion.
- There are special protection circuit and device inside the battery, please do not disassemble the battery without guide, otherwise it will cause short circuit or electrolyte leakage.

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- Please do not squeeze, mechanical vibration or shaking the battery, is strictly prohibited to make the battery positive and negative short circuit.
- Please do not put the battery into water or other liquid, to cause the battery short circuit, which causes the battery to heat, smoke, or even explode.
- Please do not expose the battery to the sun. Please do not use in the high humidity environment, such as the bathroom, sauna room, etc..
- Please replace the battery when the performance requirements can not be met.
- Please put the battery in a place where children can not reach, and prevent the occurrence of danger.
- Once the battery is found deformed, leakage, fever or has other abnormal conditions, please stop using.

Please follow the following precautions when using the power adapter

- Before use, please read this manual and the label mark on the power adapter.
- If the power adapter is exposed to water or other conductive liquid, please cut off the power immediately.
- Do not remove or modify the power adapter, it is strictly prohibited to use the power adaptor with damage the power supply line , otherwise it will cause damage to the power adapter and even lead to electric shock, fire and other hazards.
- Please do not short-circuit the power adapter, or violent shaking the power adapter, as to avoid dangerous situations.
- Please do not use the power adapter in the bathroom, sauna and other high humidity environment, no rain.
- Please put the battery in a place where children can not reach, and prevent the occurrence of danger.

Application area

Water and electricity meter reading

Transport, logistics bill printing

Mobile government, police bill printing

Taxi bill printing

Package

Printer 1 PC

Standard power adapter 1 SET

Paper roll 1 ROLL

USB data line 1 PC

User manual 1 PC

CD 1 PC

Printer Feature

- Flowing and graceful model with ergonomic design and excellent grip for a easy hand-taking
- Support 1D,2D barcode printing;
- While compatible with Windows, Linux, Android and IOS systems;
- Super battery life, with smart power saving and power consumption control functions , to ensure longer print time;
- Rich Interface optional: USB/USB+Bluetooth/USB+WiFi/USB+Bluetooth+WiFi;
- Support USB fast charging and realize printing while charging, which can greatly provide printing efficiency;
- Anti fall of 1.5M cement floor;

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Printer Parameter

Item		Parameter
Print parameter	Printing Method	Thermal Line
	Effective Printing Width	48mm
	Resolution	384 dots/line (8dots/mm, 203dpi)
	Printing Speed	70mm/S
	Interface	USB/USB+Bluetooth/USB+WiFi/ USB+Bluetooth+WiFi
	Line spacing	3.75mm (Can adjust line spacing by command)
	Line No.	Font A:32character /Line Font B:42character/Line
	Character Size	ANK character, Font A: 1.5×3.0mm (12×24dots)

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		Font B: 1.1×2.1mm (9×17 dots)
Bar code character	Extended character set	PC437/Katakana/PC850/PC860/PC863/PC865/WestEurope/Greek/Hebrew/EastEurope/Iran/WPC1252/PC866/PC852/PC858/IranII/Latvian/Arabic/PT151,1251/PC737/WPC/1257/ThaiVietnam/PC864/PC1001/(Latvian)/(PC1001)/(PT151,1251)/(WPC1257)/(PC864)/(Vietnam)/(Thai)
	Bar code	1D.Bar code: UPC-A/UPC-E/JAN13(EAN13)/JAN8(EAN8)COD E39/ITF/CODABAR/CODE93/CODE128 2D.Bar code: QRCODE
Graphics printing	Graphics printing	Supports bitmap download and print (support each bitmap size Max.8K, download up to 5pcs)

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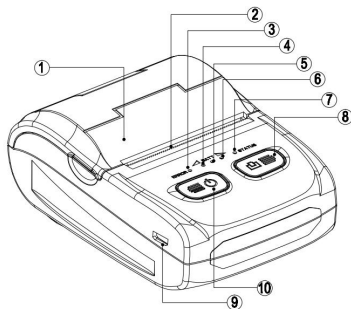
Power saving Mode	Smart power saving	Support
	Variable speed printing	Support
	Consumption	Support
	Dormancy	Support
Detection	Sensor	Lack of paper detection
Indicator function	Power display	Support
	Charging Indication	Support
	Paper lacking indication	Support
Paper	Type	Thermal
	Width	57.5±0.5mm
	Paper thickness	≤0.12mm

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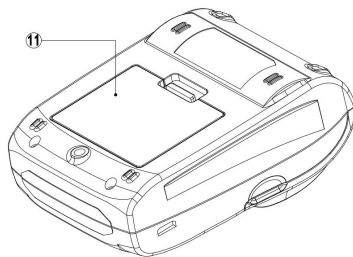
	Diameter	≤40mm
	Feeding Way	Easy paper feeding (Clam shell type)
Commands	Commands	ESC/POS
Power	Type	Rechargeable Lithium polymer battery
	Capacity	1500mAh/7.4V
	Charger	5.0V/1A
Physical features	Weight	200G
	Dimension	112*79*48(MM)
Environment	Operating	Temp: 5 ~ 45℃ , Humidity: 10 ~ 80%
	Storage	Temp: -10 ~ 50℃ , Humidity: 10 ~ 90% (No Dew)
Reliability	Print head life	50KM (Printing Density≤12.5)
Software	Driver	Android,IOS,Linux,Windows

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Printer components name:



- ①. Paper warehouse cover
- ④.⑤.⑥. Power electricity Indicator
- ⑧. Paper feeding bottom
- ⑩. Power bottom



- ②. Paper outlet part
- ③. Error indicator
- ⑦. Status indicator
- ⑨. USB port
- ⑪. Battery

Interactive interface

1.battery charge indicator (shown as above ④.⑤.⑥)

Full on:means battery power is full;

only one light on (shown as above ⑥): means the battery is about to run out, to ensure normal use, please charge the battery.

2.Error indication (shown as above ③)

The error indicator light flicker, two possible conditions:

- Printer is short of paper, place thermal paper properly. Error relief;
- Temperature of printer core is too high, so that the printer stops working, put printer in low or normal temperature conditions,restart of the printer when the printer's temperature reduced. Error relief;

3.Charge indicator

When charging the battery, status indicator(⑦) is off. When printer is on, the ④.⑤.⑥. Power electricity Indicator is on.

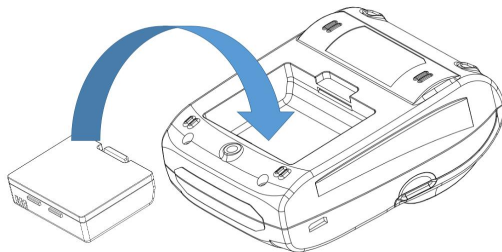
When the battery is full, status indicator(⑦) is on. At this time, please pull the power adapter plug, and you can use it normally now.

4,Bluetooth connection indication

When Bluetooth is not connected, the state indicator light (⑦)is off. When a device is connected to the printer through Bluetooth, the status indicator light (⑦)is on.

Battery installation and considerations

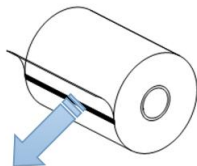
Put battery in the battery holder according to Pic and close the battery cover



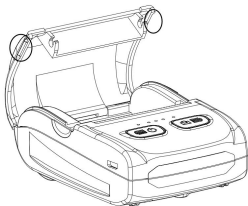
Note: when use battery at the first time, need to charge it full. If the battery is stored for a long time, also need to charge it full, so the battery can achieve the best using effect.

Install the print paper

1.remove the seal on the printing paper.

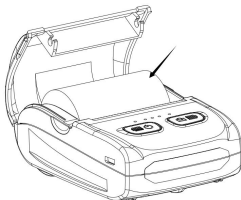


2.Hold the side button of paper holder and open paper cover

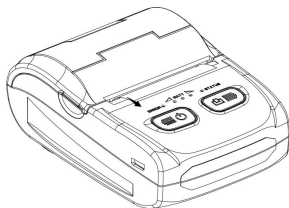


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3.Put the paper roll in like below:



4.Put out some paper and close the paper cover, tear up the excess paper.



Note:pls take care of the paper roll direction,if opposite it can't print the content.

Basic operation:

1 Start

Continue to press the 'Power bottom(⑩)' for 3 seconds, the printer starts.

2 shut down

when printer is on, continue to press the 'Power bottom(⑩)' for 3 seconds, the printer is powered off.

3 print self-test page

In Shutdown status and print paper roll are installed well, press the 'Power bottom(⑩)' and 'Paper feeding bottom(⑧)' at the same time for 3 second so printer is normally powered on, release the 'Power bottom(⑩)' but press the 'Paper feeding bottom(⑧)' still until the 'Error indicator(③)' turn on, then release the 'Paper feeding bottom(⑧)', then printer will print a self-test page.

4 Switching between English and Chinese

In Shutdown status and print paper roll are installed well, press the 'Power bottom(⑩)' and 'Paper feeding bottom(⑧)' at the same time for 3 second so printer is normally powered on, release the 'Power bottom(⑩)', but press the 'Paper feeding bottom(⑧)' still until the error light turn on and turn off, then release the 'Paper feeding bottom(⑧)'. In this case, the printer finished the Switching from current mode to another mode (For example: Chinese mode switch to English mode or English mode switch to Chinese mode). At the same time, the printer will print "You selected ASCII/Chinese Mode" on the paper.

5 Print density switch

In Shutdown status and paper roll are installed well, press the 'Power bottom(⑩)' and 'Paper feeding bottom(⑧)' at the same time for 3 second so printer is normally powered on, release the 'Power bottom(⑩)', but press the 'Paper feeding bottom(⑧)' still until the error light turn on and turn off and on, then release the 'Paper feeding

bottom(⑧)'. Then the printer finish the increasing on Print density. It will add a print density based on the former density. But when it comes to level-4, this operation will changed to the Level-1.

6 Hex number system:

In Shutdown status and paper roll are installed well, press the 'Power bottom(⑩)' and 'Paper feeding bottom(⑧)' at the same time for 3 second so printer is normally powered on, release the 'Power bottom(⑩)', but press the 'Paper feeding bottom(⑧)' still until the error light turn on and turn off, on and off again, then release the 'Paper feeding bottom(⑧)'. In this case, the printer enter into Hex mode. When you printing, the content will be the hex data.

Communication:

USB communication:

This printer USB interface use standard USB2.0 communication protocol which can easily connect to the windows device, android equipment, Linux equipment, and equipped with corresponding driver and SDK, let your print arbitrarily.

Note: the printer driver and SDK please check the CD or download from the official website or ask for your supplier.

Bluetooth communication:

The printer provide Bluetooth 3.0 and Bluetooth 3.0/Bluetooth 4.0 dual-mode two Bluetooth communication can easily connect to the windows device, android and IOS devices work, and communication distance up to 15m.

Note:Match password :1234

Printer Repair and maintenance:

- 1.Outer part and warehouse cleaning: please use a wet cloth gently wipe the printer surface and internal paper warehouse.
- 2.Printer core clean: printer core must be clean on time, especially the quality of printing is decline, cleaning methods are as follows: put cotton dipped in anhydrous alcohol and gently wipe the printer core ceramic parts until clean enough.
- 3.If find water inside printer, please immediately disconnect the printer power, and dry the printer naturally.

Failure Analysis:

Failure phenomenon	Failure cause	Solution
Printer red light flashing	Printer lack of paper Printer's temperature is too high	Install paper correctly Cool the printer naturally and restart for using

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When the printer only take paper out but not print	Print paper install reverse	Pls install the print paper for a opposite direction
The printer print fuzzy	The print head not clean for a long time	Put cotton dipped in anhydrous alcohol and gently wipe the printer core ceramic parts until clean enough
	The character colour in thermal paper no good	Pls choose high quality thermal paper
Power indicator only has the last lights on	battery is short of power	Pls charge the battery to avoid affect your normal use
The printer shut down automatically	Battery power is off	Pls charge power immediately

FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.