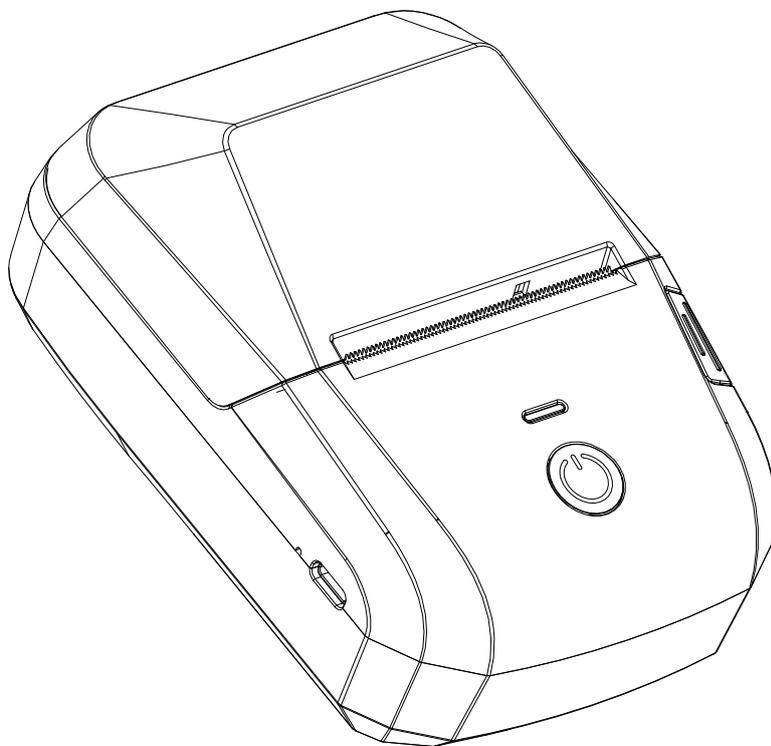


MOBILE THERMAL LABEL PRINTER

User Manual



SECURITY WARNING!!!



(1) Attention! Sharp parts!

The paper tearing blade has a sharp edge, please be careful not to touch it to prevent cutting.



(2) Attention! Hot Parts!

After printing, please do not directly contact the printhead to prevent overheating and scalding.

After turning off the power, wait half an hour to access the printhead.

Product is not intended for use with children.



(3) Attention! Moving parts!

Keep your body away from moving parts and beware of scratches.

Precautions

Please read this chapter carefully before using the printer!

1. Safety Precautions

- 1) Be sure to use the specified battery and power supply provided by our company.
- 2) Connection to an improper power supply may cause burning, explosion or damage to printer.
- 3) Don't put the battery into fire or water, don't disassemble or modify the battery, don't be short circuit, otherwise may result in injury or even fire explosion.
- 4) If the printer would not be used for a long time, be sure to take off the battery, otherwise the battery may leak liquid which is corrosive. If improper operation causes battery leak, and the liquid is spattered on the skin or clothes, please wash it with water. if spattered into eyes, please rinse them with water thoroughly and soon see a doctor.
- 5) Please do not open the paper case cover while it is printing or just when printing is over, do not touch the print head with hand or body, overheat may cause scald.

2. Operation Precautions

- 1) Water or other liquid should not spill into the printer, also the printer should not be exposed in rain or else may cause printer damage.
- 2) Please do not open the paper case cover when it is printing, otherwise the printer may work improperly.
- 3) When printing with Bluetooth interface, the communication distance should be within 10 meters, otherwise the printer doesn't print or it will print rubbish codes.
- 4) Too high (50°C) or too low (-5°C) temperature and too high (80%) or too low (25%) relative humidity both will affect the printing quality.
- 5) The thermal paper in poor quality or stored for too long time also may reduce the printing quality or even damage the printer.

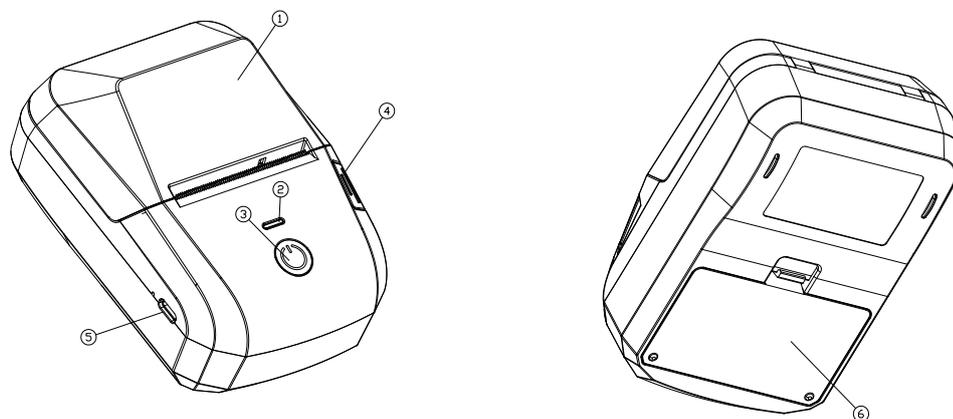
3. Storage Precautions

- 1) The printer should be placed in such an environment that the temperature is between -20°C to 70°C, and the relative humidity is within 5% to 95%.
- 2) 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.
- 3) Normal thermal paper can't be kept too long, if you need to keep the receipt for a long period, please choose long term effective thermal paper.
- 4) The thermal paper should be keep away from high temperature environment and point-blank sunshine.

4. Battery Safety Precautions

- 1) Be sure to carefully read the user manual before using this product.
- 2) Ignore the following instructions may cause battery overheating, burning, explosion, damages the performance and reduce the product life.
 - ① Do not allow water, sea water from entering or leaking into the battery inside. If the battery internal safety device burn, when charging it, it may produce abnormal current, voltage, and chemical reaction to cause the battery overheating, burning and explosion.
 - ② Do not use or place the battery nearby the stove or other high temperature places. Excessive heat may damage the resin shell or the insulation materials, thereby cause short-circuit inside the battery and result the battery overheating, burning and explosion.
 - ③ When charging, use a specified charger. Other conditions (high temperature, high pressure/high current, using the modified battery charger, etc.) excluded here may result in over-charging the battery and abnormal current or voltage, cause abnormal chemical reaction, and may cause the battery overheating, burning or explosion.
 - ④ Do not make the battery contact with the power outlet or car cigarette lighter socket. This may cause high pressure and excessive current, and lead the battery overheating, burning or explosion.
 - ⑤ Do not heat the battery or put the battery into fire. This may melt insulation material and damage safety devices or safety equipment, then ignite electrolytic solution, and cause the battery overheating, burning or explosion.
 - ⑥ 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 overheating, burning or explosion.
 - ⑦ Battery clearly marks with positive and negative. When connect the battery with the charger 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 overheating, burning or explosion.
 - ⑧ Do not make the battery (+) and (-) connect 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 overheating, burning or explosion and the adjacent metal objects (necklaces, hairpins, etc.) may be overheated.
 - ⑨ Do not throw or heavily attack the battery. If internal safety device of the batteries burned, the battery charging may cause abnormal current and voltage, and abnormal chemical reaction, and lead the battery overheating, burning or explosion

1.1 Printer appearance

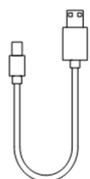


- 1. Printer top cover
- 3. Power on button
- 5. Type C USB port

- 2. Indicator light
- 4. Open cover button
- 6. Battery cover

1.2 Printer accessories

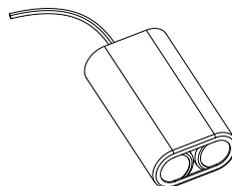
Type-C USB



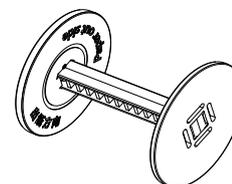
Cable User Manual



Battery 7.4 V



Paper Roll Holder



CHAPTER 2 Performance Characteristics

| ITEM | PARAMETERS |
|-----------------------|---|
| Printing method | Thermal dot line printing |
| Printing Resolution | 203dpi, 8dots/mm |
| Printing speed (Max) | 60mm/s |
| Paper Width | 20~57mm |
| Valid printing width | 48mm |
| Paper roller diameter | ≤50mm |
| Interfaces | Bluetooth + USB |
| Command sets | Compatible with ESC/POS, TSPL, YPL |
| 1D Barcode | UPC-A, UPC-E, EAN8, EAN13, CODE39, ITF, CODEBAR, CODE128, CODE93 |
| 2D QR code | QR code |
| Graphics | Support bitmap printing with different density and user defined bitmap printing |
| Anomaly detection | Paper out/ low battery/ printer cover open |
| Adapter | 5V/1A adapter |
| Battery | 2000mAh/7.4V rechargeable lithium battery (2~4H can be full charged). Full charge can print 300~350m (printing density not more than 12.5%) or 250~300mm (printing density not more than 25%) |
| Working condition | -10°C~50°C, 20%~85%RH |
| Storage condition | -10°C~70°C, 5%~95%RH |
| Dimension | 127.52*88*64.62mm (W*D*H) |
| Weight | 302g (without paper roll) |

CHAPTER 3 OPERATION METHODS

3.1 Basic Functions

3.1.1 Power on

When the machine is turned off, press the [button] for 2 seconds, the printer is turned on and enters the working state, and the power indicator light is always on white. Note: When there is a shortage of paper, the indicator light always turns on red, and the buzzer beeps three times every two seconds. When the battery power is lower than 6.8 V, the buzzer sounds continuously, and the indicator light flashes green.

3.1.2 Shutdown

In the power-on state, press the [button] for 2 seconds, the printer is turned off and the indicator light goes out. When the battery level is below 6.5 V, the printer automatically shuts down

3.1.3 Self-test

After the user gets the printer, he can perform a self-test on the printer at any time to detect the current settings and status of the printer. The method of self-test is as follows: turn on (if the printer is in an optical-mechanical state), then press the [button] twice quickly and continuously, and the printer will print a self-test page, which contains the current printer status and printer settings and printing examples.

3.1.4 Paper feeding (manual paper feeding)

Label paper mode: When the printer is working normally, press [button] shortly, and the printer starts to position a label.

Continuous paper mode: When the printer is in normal working state, press the [button] shortly, and the printer starts to feed 4mm.

3.1.5 Charging

After the printer is used for a period of time, the battery of the printer will be exhausted. When the charging indicator light of the printer flashes quickly, be ready to charge. When the indicator light is charged, the green light always turns on, and the green light always goes off when the charge is fully charged.

3.1.6 Label calibration

In the label mode, press the [button] 3 times continuously and quickly to start the label calibration. At this time, the led light flashes alternately as the running water light.

3.2 Print connection and printing

The Android terminal device searches for the corresponding printer, enters the password "0000" to connect, and can print after the connection is successful (Android4.0 or above is supported).

The IOS terminal device searches for the printer, turns on Bluetooth on the device, directly searches for the corresponding printer in the A PP of the device, and selects connection (supports iphone4S, Ipad2 and above).

3.3 LED Indicator and Buzzer Definition

When the power level is lower than 6.8 V, the buzzer rings continuously. At this time, the buzzer can only stop ringing by plugging in the charger; Battery less than 6.5 V The printer will automatically shut down.

| Printer Status | BT Status | Indicator light | | | | Buzzer | Remark |
|------------------|-----------------------|-----------------|-------------|-----------|------------|---------------------------------------|---|
| | | White lamp | Green light | Red light | Blue light | | |
| ON | Initialization failed | on | | | | Prompt sound | |
| Stand by | Disconnected | Blink | | | | | |
| | Connected | | | | on | Tweeting 1 time | When charged, it will combine into a cyan light |
| Charging | Disconnected | | on | | | Tweeting 1 time | Green light off after full charged |
| | Connected | | | | | | |
| Cover open | Disconnected | | | Blink | | Tweeting 1 time in every 2 seconds | |
| | Connected | | | | | | |
| Paper out | Disconnected | | | on | | Tweeting 3 time in every 2 seconds | |
| | Connected | | | | | | |
| Low voltage | Disconnected | | Blink | | | Tweeting 3 time in every half seconds | Stop tweeting |
| | Connected | | | | | | |
| High temperature | Disconnected | | | Blink | | | |
| | Connected | | | fast | | | |
| Revise | | Blink | Blink | Blink | Blink | | blink alternately |
| Firmware Update | | on | on | on | on | | Keep charging connected |
| Sleep mode | | Blink | | | | | BT connected or paper out states can't enter sleep mode |
| Power off | | | on | | | Prompt sound | Green light off after full charged |
| Remark | | | | | | | |