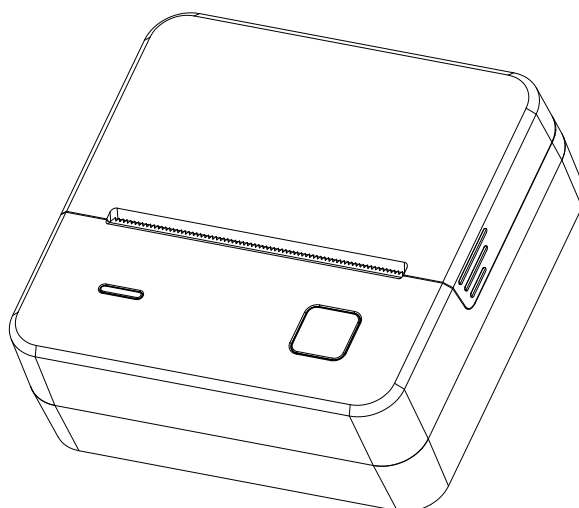


MOBILE THERMAL PRINTER

User Manual



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PRECAUTIONS

1. Safety Precautions

- 1) Please use a 5V charger for charging to avoid damaging the machine.
- 2) Please do not open the paper bin cover immediately when printing or right after printing is completed. Do not touch the printing mechanism with your hands or any part of your body to avoid burns caused by excessive temperature.
- 3) When the printer malfunctions, please do not continue to use it. This can lead to fire or electric shock. Please turn off the machine and unplug the printer before contacting the dealer.

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

Be sure to read the user manual carefully before using the product. Ignoring the following instructions may result in battery overheating, burning, explosion, damage or reduced performance and product lifespan.

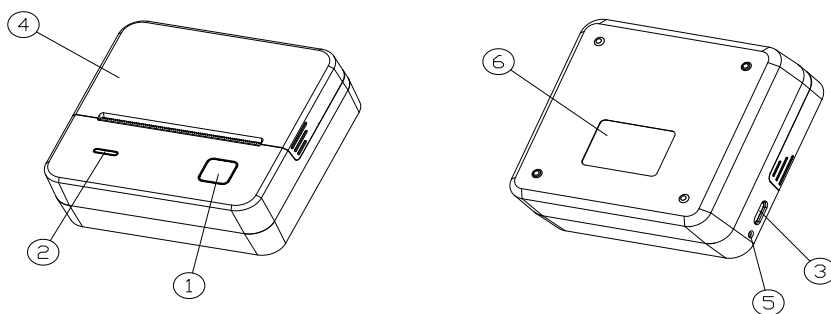
1) Do not allow water, seawater or other substances to enter or leak into the battery. If the safety device inside the battery burns out, the charging of the battery may cause abnormal current or voltage, triggering abnormal chemical reactions, which in turn may lead to battery overheating, ignition and/or explosion.

2) Do not use or place batteries in high-temperature areas such as near stoves. Excessive heating may cause damage to the resin casing and insulation materials, thereby leading to an internal short circuit in the battery, which in turn may result in overheating, combustion and/or explosion of the battery.

3) When charging, please use a dedicated charger. Charging with high-temperature, high-pressure/strong current, modified chargers, etc. may cause the battery to overcharge, resulting in abnormal current and/or voltage, triggering abnormal chemical reactions, and potentially leading to battery overheating, ignition and/or explosion.

CHAPTER 1 BRIEF INTRODUCTION

1.1 Appearance



1. Power button

3. Type C USB interface

5. Reset button

2. Status indicator

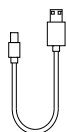
4. Printer top cover

6. Nameplate

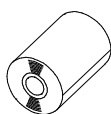
1.2 Accessories

Standard Accessories

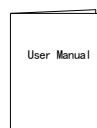
USB cable(type C)



Paper Roller

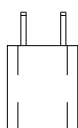


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Optional Accessories

Power Plug /[5V/1A]



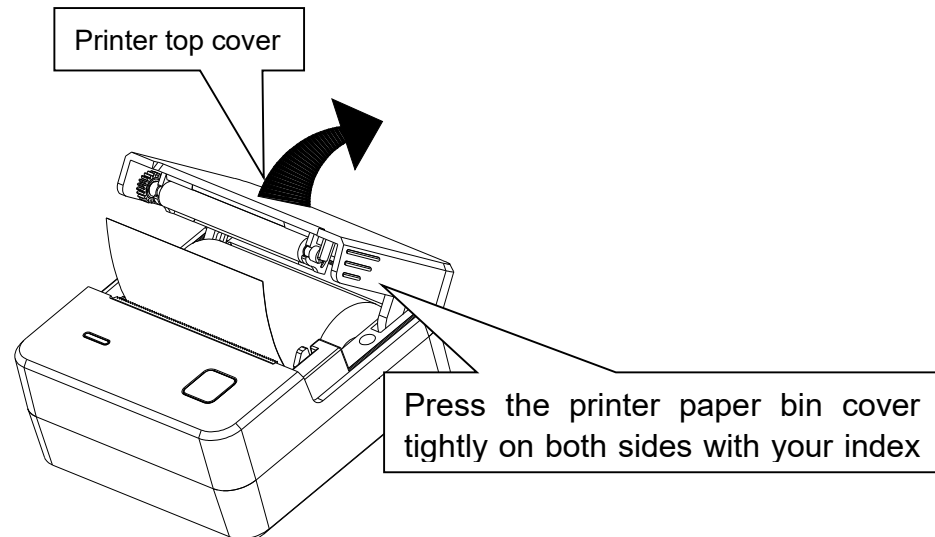
CHAPTER 2 SPECIFICATIONS

ITEM		Parameter
Printing	Printing method	Thermal dot line printing
	Resolution	203dpi, 8dots/mm
	Printing speed	40 mm/s
	Valid printing width	48mm
	Paper roll diameter	30mm(max)
	Interface	Bluetooth and USB
Character Set	Font	ASCII:9×17,12×24; Multiple code pages support
Barcode Symbologies	1D	UPC-A, UPC-E, EAN8, EAN13, CODE39, ITF, CODEBAR, CODE128, CODE93
	2D	QR code
Graphics		Support bitmap printing with different density and user defined bitmap printing (Max. 40K for per bitmap, and Max. 64K for total)
Detection	Sensors	Paper out/ Low battery /high temperature
Command set		ESC/POS
Charging	Adapter	5V/1A (Optional)
	Battery	2000mAh/3.7V rechargeable Li-ion battery
Physical characteristics	Working condition	-10°C~50°C, 20%~85%RH
	Storage condition	-20°C~70°C, 5%~95%RH
	Dimension	W81.8*D81.8*H37.3(mm)
	Weight	136g (with paper roll)

CHAPTER 3 OPERATION METHODS

3.1 Preparation Before Using

3.1.1 Installation of printing paper rolls



Usage method

- 1) Press the index finger and thumb tightly against both sides of the printer's paper bin cover, and apply a little force to open the paper bin cover.
- 2) As shown in the above picture, place the paper roll into the paper bin. Pay attention to the direction of the paper. If it is placed in the wrong direction, it will result in the inability to print.
- 3) As shown in the above picture, pull out some of the paper rolls. Be sure to pull the paper rolls out of the paper bin.
- 4) After straightening the paper roll, close the top cover.

3.2 Basic Functions

3.2.1 Power On

When the printer is turned off, press the power button for 2 seconds. The printer will turn on and enter the working state, and the indicator light (green light) will come on.

3.2.2 Power Off

When the machine is turned on, press the power button for 2 seconds continuously. The printer will turn off and the indicator light will go out.

3.2.3 Self-test

After users receive the printer, they can conduct a self-test page on it at any time to detect its current Settings and status.

The self-test method is as follows: Turn on the printer (if it is turned off), press the power button twice in a row quickly, and the printer will print out a self-check page. The self-check page contains the current status of the printer, printer Settings, and printing examples.

3.2.4 Paper Feeding (Manual paper feeding)

When the printer is in normal operation, press the power button briefly and the printer will start to feed paper to a fixed length.

3.2.5 Battery Charging

After the printer has been used for a period of time, the battery power of the printer will decrease. When the battery power of the printer is nearly exhausted, the printer indicator light will turn green and flash rapidly, accompanied by a buzzer alarm. At this time, the user needs to charge it (charging can eliminate the low-voltage alarm sound). If the printer automatically shuts down during the printing process and users need to continue using it, they must charge it.

The charging method is as follows: Insert the USB interface (Type-C interface) into the USB cable, then plug the charging plug into the printer's charging socket, and the printer will start charging. During the charging process, whether the printer is turned on or off, the charging indicator light (green light) flashes slowly. After the charging is completed, the charging indicator disappears (When the device is turned off, the green light goes out when fully charged; when it is turned on, the green light remains on constantly when fully charged.). During the charging process, the printer can be used normally, but it is recommended to reduce the frequency of use.

3.3 Printer connecting and Printing

3.3.1 Bluetooth pairing and printing

PDA with Bluetooth interface, laptop and other information terminals can drive the mobile thermal printer D1. Instructions as follows:

1. Power on printer.
2. Primary device search for outer Bluetooth devices.
3. If there are some outer Bluetooth devices, choose D1
4. Enter password "0000".
5. Finish matching.

Note: when pairing, mobile thermal printer D1 must be on. Do not set many printers on when pairing, otherwise it can't figure out which printer is the one that succeed in pairing. Usually, one printer pair with one host machine, it is possible that one printer pair with more host machines too.

3.4 LED Indicator and Buzzer Definition

The printer has a buzzer and three indicator light colors to alert users of the printer's status. The indicator lights are used to indicate the current status of the printer, and the buzzer is used to alert users of changes in the printer's status. The three color indicator lights are green, orange and red respectively:

Printer State	BT State	Indicators			Buzzer	Note
		(Orange)	(Green)	(Red)		
Power On		ON			Once	
Standby	OFF		ON			
	ON	ON			Once	
Charging	OFF		Slow flash		Once	Green light ON when full charged
	ON	ON				
Paper Out	OFF			ON	once every two seconds	
	ON					
Low Voltage	OFF		quick flashing		ON	When charging, the green light turns to flash slowly
	ON					
High Temperature	OFF			quick flashing		
	ON					
Power Off			Slow charging flash			Green light off when full charged
FW Upgrade		quick flashing				Power supply shall be kept