User's Manual



Portable Thermal Printer



Safety warning

- Only the supplied AC power adapter and lithium battery is allowed to use, otherwise it may cause device damage, battery leakage, fire, and even explosion.
- Do not put the battery into a fire or apply direct heat to it or disassemble it, otherwise cause the battery leakage, fire, and even explosion.
- Please remove the battery from the printer and store separately if the printer will not be used for a long period of time, otherwise cause the battery leakage.
- As the battery's liquid is corrosive, if there any case of operational mistakes to cause leakage, please wash immediately with plenty of clean water if skin or clothes contact it carelessly. If entering eyes, wash with plenty of clean water at once and seek medical advice.

Safety notice

- Do not touch the paper tear-off knife.
- The print head is a heated part, please do not touch the print head and other parts around it during or after the printing process.
- Do not touch the print head and plug-in parts to avoid print head damage.
- Do not open the top cover when printing, otherwise may cause printer work failure.
- In order to get good print quality, and extend the device service life, we suggest that using the recommended thermal paper roll or which is the same quality of.
- Do not print when it's out of paper, which will seriously damage the print head and rubber roller.
- Make sure printer power is turned off when connecting and disconnecting the power cable or data cable.
- Do not let water or conducting material (eg. Metal) into the printer, please turn off the power immediately if happened.
- Please make sure to charge the battery for 60% or above and then remove the battery from the printer and store separately if the printer will not be used for a long period of time.
- Please keep this manual for your reference.

Main Features:

- Label & receipt printer 2-in-1.
- Two kinds of Interface optional: USB+Bluetooth (standard), USB+WiFi (optional)
- USB+Bluetooth: BT3.0 and BLE4.0, support Android and iOS system.
- USB+WIFI: AP/STA/AP+STA mode to set up the networks.
- Compatible with ESC/POS printing commands, support NV logo download printing, various 1D bar code and QR code.
- Low power consumption, good print quality, 50km mechanism lifespan.
- Support GB18030 Simplified Chinese, Big5 traditional Chinese, Korean, international character set and extended code pages.
- LED can be showed abnormal condition of the printer, battery capacity status, charging and connection status ect.

• • • • • Portable Thermal Printer • • • • • • • •

• Freely offer DLL, SDK, Demo for developing.

Unpacking

After unpacking the unit, please check that all the necessary accessories are included in the package.

User's manual	1pcs
Printer	1pcs
Lithium battery	1pcs
USB cable	1pcs
Power adapter	1pcs

Technique Spec

Print mode	Label mode	Receipt printer
Print method	Direct line thermal	
Dot density	203DPI	
Print speed	60mm/s (max)	60mm/ s
Interface	USB+Bluetooth 4.0, USB+Wi-Fi	
Print width Max	72mm	72mm
Label size Max	72mm*220mm	Unlimited
Buffer	DRAM: 128KB FLASH:128KB	NV FLASH: 60KB
Print commands	TSPL	ESC
Cover open detect	Microsy	vitch
Paper sensor	Photo electricity	
Paper back-feed	Not available	
Code page	PC437/PC850/PC852/PC86 0/PC863/PC865/WPC1250/ WPC1252/WPC1243/WPC1 254/WestEurope/Greek/He brew/EastEurope/Greek/He brew/EastEurope/Iran/IranII /Latvian/Arabic/Vietnam/Uy gur/Thai/WPC1251/WPC12 57/Cyrillic/PC858/PC747/P C864/PC1001	PC437/Katakana/PC850/P C860/PC863/PC865/West Europe/Greek/Hebrew/Ea stEurope/Iran/WPC1252/ PC866/PC852/PC858/Iran II/Latvian/Arabic/PT151,1 251/PC747/WPC1257/Vie tnan/PC864/PC1001/Uygu r/Thai
Barcode	CODE128,EAN128,ITF,CO DE39,CODE93,EAN13,EAN 13+2,EAN13+5,EAN8,EAN 8+2,EAN8+5,CODABAR,U PC-A,UPC-A+2,UPC- A+5,UPC-E,UPC- E+2,UPC-E+5,QRCode	UPC-A、UPC-E、 EAN(JAN)13、 EAN(JAN)8、CODE39、 CODEBAR、ITF、 CODE93、CODE128、 QRCODE
Character fonts	(GB18030+Big5+Korean)/Japanese, ANK	
Paper type	Adhesive thermal paper	Thermal paper roll
Paper width	45~79mm	79mm
Paper diameter	50mm±0.5mm	
Paper cutting way	Top paper out, tear-off	
Lithium battery	7.4V 2200mAh	
Power adapter	Input: AC220V output: DC 9V/1A	
Charge period	3h-5h	
Work Environment	Temperature: 5~45℃, Humidity: ≤93% RH	
Storage Environment	Temperature: 5~50℃, Humidity: ≤93% RH	
Dimension	131mm*107mm*58mm	
Weight	430g (including battery)	
Mechanism	50km	

Printer parts:





Status

Printer power off.

of paper.

Printer power on, but out

Printer is powered on and

Bluetooth/WiFi connected.

in normal print mode.

Printer power ON/OFF.

Hexadecimal Dumping

Change print mode

Gap sensor calibration

Interface information

Print Self-test page

Feed button
 Power button
 Function key button
 Power port

ERROR

indicator

(Red)

OFF

Blinking

OFF

OFF

5. Status indicator (Blue)

Battery

status

indicator

(Green)

OFF

ON

ON

ON

Long press the power button for 3 seconds.

then release the FEED button.

changed to Dump mode.

the label.

Turn off the printer power, press the FEED button and

the POWER button simultaneously, wait for all the lights are bright, then release the POWER button

firstly, wait for STATUS indicator (blue light) dims,

Turn off the printer power, press the FEED button and the POWER button simultaneously, wait for all the lights are bright, then release the POWER button firstly; after the blue light and

red light dims in turn, then release the FEED button, meanwhile the printer prints out "Hexadecimal Dump" page, then printer is

Turn off the printer power, press and hold on the POWER and PAUSE and FEED button simultaneously, wait for all lights are bright, then

release POWER button firstly, keep on pressing

FEED and FUNC button till the printer prints out a

page showed current printing mode, release two buttons. Repeat the steps above to change the printing mode in between label and receipt mode. In label mode, long press FUNC button to calibrate

Printer power on, press the FUNC button once.

Turn off the printer power, press the POWER button

and FEED button simultaneously, wait for all lights are

bright in turn, then release the POWER button firstly.

Blue light and red light dims in turn, hear a beep, and printer prints out a page showed "Restore factory setting completed", release FEED button.

Keep on pressing the FEED button all the time, wait for Printer initialization

Indicators, Beeper and Buttons:

STATUS

indicator

(Blue)

OFF

OFF

OFF

ON

Beeper

No

Yes

No

No

Battery status indicator (Green)
 Error indicator (Red)
 Cover open button
 USB port



Paper Roll Installation



b. Install the paper roll into the slot (keep right side). keep 1 label outside.

Battery Installation

a. Open the cover.





 Open the cover.
 Insert the left side to install the battery at the rear of the printer, push the right side of the battery.

tall 3. Close the cover. the de

Note: The printer can not be printed without using battery.

Battery Charging



NOTE:

1. Charging the battery must be in the state of power-on.

Driver software

Connect printer with computer via USB cable, and then turn on the printer power, a U-Disk appears in computer, which saved the driver software into a zipped package. Please copy to your local disk for driver installation.

Set paper shortage threshold value

In receipt mode, keep without paper roll, long press FUNC button to set paper shortage threshold value.

NOTE: KEEP WITHOUT PAPER ROLL

Open/Close U-disk

After printing the self-test page, press FEED button once to open or close U-disk.

Auto calibration when printer is powered on

1. Calibrating Media sensor by Gpsettingtool. In label mode, checking "POWER ON TEST PAPER: ON/OFF" from self-test page, set "OFF" as default.

2. Auto calibration once the printer resumes working from paper shortage state.

Troubleshooting

The following guide lists the most common problems that may be encountered when operating this printer. If the printer still does not function after all suggested solutions have been invoked, please contact the Customer Service Department of your purchased reseller or distributor for assistance.

Problem	Possible Cause	* Recovery Procedure
Power indicator doesn't illuminate	 The battery is not properly installed. The battery is used up. The printer is not turned on. 	 * Reinstall the battery. * Charge the battery. * Switch the printer on.
Paper roll installed, media calibration error or red Indicator flashes.	 Need to set paper shortage threshold value. The print head sensor is dirty. 	*Re-set paper shortage threshold value. *Please use soft brush to clean the sensor.
Poor print quality	 Poor media quality. The print head is dirty. The platen roller is dirty. 	 *Change proper media roll. *Please use the lint-free cloth with 100% ethanol to wipe the print head and the platen roller.
Gap sensor calibration error	* Poor media quality.	*Change good quality media roll. *Re-calibrate gap sensor.