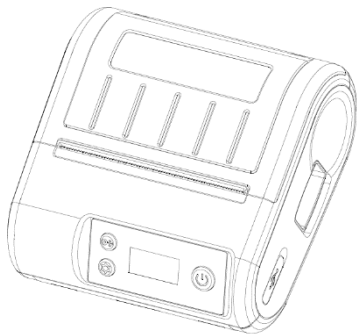


3 Inch Portable Thermal Printer

User Manual Rev1.0



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1. Product Introduction

Thank you for your purchasing of 2 in 1 thermal label and receipt printer. This printer will provide you with safe, reliable and efficient printing quality. At the same time, this printer is in high quality and easy to operate, it is your best choice.

1.1 Safety warning

- 1: The print head is a heat-generating part. Do not touch the print head and surrounding parts during and just after printing.
- 2: Do not touch the surface of the printer head and the connecting part to avoid damage to the print head due to static electricity.
- 3: Do not touch the tearing blade to avoid injury.
- 4: The printer instructions must be strictly followed to configure and use the printer, so as not to harm the human and damage the device.
- 5: Before using the printer, please read the following precautions carefully.
- 6: Operation of this equipment in a residential environment may cause radio interference
- 7: This product is only suitable for use in areas altitude below 2000 meters, and is only suitable for use in areas with non-tropical climate conditions.

1.2 Notes

- The printer should be installed in a flat and stable place;
- Leave enough space around the printer for operation and maintenance;
- The printer should be far away from water source and avoid direct sunlight, strong light and heat source;
- Do not use and store the printer in places with high temperature, high humidity and serious pollution;
- Avoid placing the printer where there is vibration and shock;
- Avoid Moist air forming dew on the surface of the printer. If it has formed, do not turn on the power of the printer before the dew disappears;
- Connect the power adapter of the printer to an appropriate grounded socket, avoid using the same socket with a large motor or other equipment that can cause power supply voltage fluctuations;
- If not be used for a long time, please remove the battery from the printer;
- Avoid water or conductive substances (such as metal) from entering the printer. Once it occurs, turn off the power immediately;
- When printing finished, please turn off the printer to avoid damage to the printer control circuit;
- When the printing effect meets the usage requirements, it is recommended that

the user set the low-level printing density as much as possible to avoid affecting the service life of the print head;

- Users are not allowed to dismantle the printer for maintenance.

2. Overview

2.1 Introduction

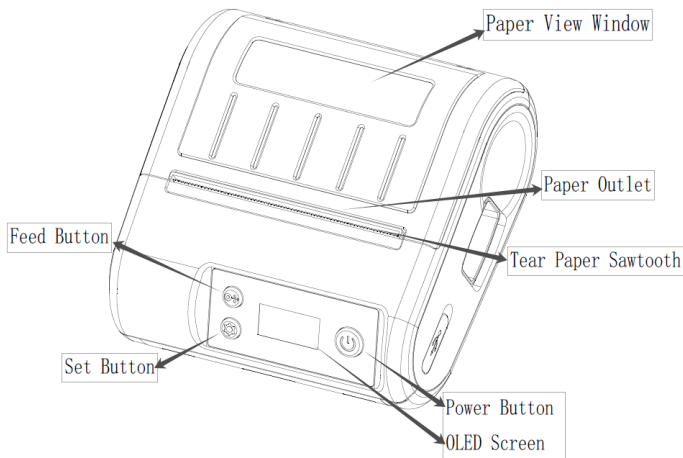
This printer can meet the needs of both label and receipt printing. It is also meet the need of real-time printing, batch printing. It can be widely used in transportation, postal, logistics, supermarket, catering and other fields. This label printer can be connected to related devices through a standard USB and Bluetooth interface. It is direct thermal method printing. The following type label papers are all supported: Continuous, gap, black mark, punched hole, label paper, tag paper card.

This printer is direct thermal printing method. support 1D and 2D barcodes. Support 4 different label printing directions. Through the zoom function, the font can be enlarged 1-10 times. Therefore, you can greatly improve the efficiency of label printing in a short time.

2.2 Main features

- Maximum printing speed 70mm/sec;
- Support TSPL, CPCL and ESC/POS multiple command sets;
- Support different sizes of thermal label paper and receipt paper;
- Meet the medium range from 20mm-80mm, easy to operate;
- Automatic paper detection and positioning function;
- Temperature self-adaption control;

3. Appearance and Components



4. Installation and operation

4.1 Communication

4.1.1 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.

4.1.2 Bluetooth communication:

The printer provide Bluetooth 5.2 dual-mode communication can easily connect to the windows device, android and IOS devices work, and communication distance up to 15m.

Note: Default match password :0000

4.2 Interactive interface

4.2.1 OLED Display screen

Setting Item	Select Item
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Density	Light	Normal	Dark
Self test			
Print Mode	Label	Receipt	
Power Down (Tips: If the printer sleeps for this set time and has not been used, the printer will automatically shut down.)	No power down 20min 120min	10min 30min 180min	60min 240min
Sleep Tips: The printer will enter sleep mode after not working while waiting for this setting. At this time, the printer can wake up at any time without affecting normal use.)	None 20 second 60 second	10 second 30 second 120 second	
Language	English	Chinese	
Version	YC.xxxx-xxxx		
Factory Mode	Default para.		

4.2.2 Key functions

Power Button: Press down this button 3 second you can power on or power off the printer.

Setting Button: Click this button can enter the printer setting interface, on the setting interface you can printing self test page, setting printing mode sleep time etc.

Feed (or select) Button: In power on mode, click the button, in label mode: the printer will feed to next label paper; In receipt mode: the printer feeding out paper until release the button; if the printer is under the setting interface can click this button to setting the parameter.

4.3. Button operation

4.3.1 Print a self-test page

Method 1: In shutdown status and install paper, press down Feed(or Select) button and power button at the same time, when the beep warning 'Di' release the Feed(or Select) button and power button the printer will printing a self test page.

Method 2: In power on mode, click the setting button enter the "Self test" interface, click the Feed(or Select) button the printer will printing a self test page.

4.3.2 Calibrate paper (for label mode only)

In power on mode, pressed the button about 3 seconds after the printer start feed paper release the button, after the printer stop feed paper, the printer is calibrate done.

4.3.3 Change mode

In power on mode, click the setting button enter the "Print Mode" interface, and click the Feed(or Select) button to choose which mode you want.

5. Printer Usage

5.1 Label mode

5.1.1 Label software driver controls printing directly

In normal mobile terminal (such as Android or iOS operating systems) application, the label editing software can directly control printer to print, and no need install the printer driver.

5.1.2 Install the printer driver in Windows computer

- 1) Get the driver setup file from the CD or from the company website, open it, select the appropriate language and click "OK" to install.
- 2) Click "Next" with the default settings
- 3) Select the driver installation directory and choose "Next".
- 4) Select the printer model to "3 Inch Series", and select the USB port and click "Next"
- 5) when the installation come to following step,

5.2 Receipt Mode

This printer can support 80mm receipt printing, and there are two ways to use it, one is to use the port to directly drive the printing, and the other is to directly install the

driver under Windows.

5.2.1. Port direct drive

In this way, there is no need to install the driver, only the characters (commands and data) are directly output to the port, and the hard font library inside the printer realizes the conversion and printing of characters. It is more convenient to control the printer by direct drive port. If you use the port drive, you need to use the print instruction set to control the printing. The 80mm series thermal printer has integrated the ESC/POS instruction set inside.

5.2.2. Driver installation under Windows

Get the driver from CD, and install it in Windows system. After installation, you only need to call the driver program in the software to realize printing. In this way, there have a Windows driver that converts characters into graphic dot matrix for printing.

Windows Driver installation steps

- (1) Open the driver setup file "POS-80-Series.exe", select language and click "OK"
- (2) Click the "Next" step
- (3) Select "I have read and accept the license terms", click "Next"
- (4) Click "Install"
- (5) Select the corresponding port (the USB interface can use the default interface), and click "Next"
- (6) Click "Finish" to complete the driver installation. After this step completed, mean


the driver have been installed successfully

(7) Print a test, select the printer properties in "Devices and Printers", after selecting the port, you can print a test page to check whether the printer is connected well or not.

6. Technical Data

Items	Parameters/Descriptions	
Control Panel	Power button, Feed button, Setting button, OLED screen	
Sensor	Gap sensor, Black mark sensor, Temperature Sensor (THP)	
Paper Type	Paper Width	20mm-80mm
	Diameter	25-50mm
	Label Length	10-180mm
	Gap Size	Minimum 2 mm
	Media Type	Continuous, gap, black mark, punched hole
	Thickness	0.05mm-0.26mm
Paper Type	Roll type	
Printer Size	115 mm (D) x111 mm (W) x60 mm (H)	

Printer Weight	364g (Pure printer weight without package)
Open Method	Shell way
Print Method	Direct thermal
Resolution	203 dpi
Print Density	1-15 density Level
Speed	70mm/sec(Max)
Memory	512KB Flash Memory/320KBRAM
Interface	USB and Bluetooth
Barcode	1D barcode: Code 39, Code 93, Code 128UCC, Code 128 subsets A, B, C, Codabar, Interleaved 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN and UPC 2(5) digits add-on
	2D barcode: QR code
Rotation	0°,90°,180°,270°
Emulation	TSPL, CPCL, ESC/POS
Driver	Windows, Mac, Linux;
TPH Life	Over 100,000,000 pulses or over 50 km
Gear life	More than 200 kilometers

Power Adaptor	Input: AC 100V~240V(50Hz/60Hz) Output: DC 5V  1000mA	
Battery	Type	Rechargeable Lithium polymer battery
	Capacity	2500mAh/7.4V
	Charger	5.0V/1A
Using Environment	working altitude	Only suitable for safe use in areas below 2000m above sea level
	working environment	5℃~50℃ (non-condensing)
	storage environment	-20℃~60℃ (non-condensing)
	Working humidity	20%~85% RH (non-condensing)
	Storage humidity	5%~95% RH (non-condensing)

7. Maintenance

Take this simple printer maintenance procedure not only to ensure the printing quality, but also extend the life of the printer. The following are some of our recommended maintenance.

Please use the tools listed below to clean and maintain your printer:

- Cotton swab
- Cotton

- Air spray gun or vacuum tool
- 100% alcohol (industrial alcohol)

Please follow the below cleaning steps:

Printer parts	method
Print head	①Please turn off the printer ②Let the print head cool for at least one minute ③Wipe the surface of the print head with cotton 100% alcohol
Rubber roller	①Please turn off the printer ②While turning the rubber roller, carefully wipe the rubber with 100% alcohol on cotton cloth or cotton
Outside	Wipe the outside with a damp cloth
Inside	Use an air gun or vacuum cleaner to remove dust from the machine

8. Attention:

- The daily maintenance of the printer must ensure that the power is turned off;
- It is not allowed to touch the surface of the print head with hands and metal objects, and do not use tools such as tweezers to scratch the surface of the print head, printing roller and sensor
- Do not use gasoline, acetone and other organic solvents to wipe the print head and rubber

roller, medical alcohol may damage the print head;

- After the gap sensor is cleaned, the paper gap check should be re-checked;
- Wait for the alcohol to completely evaporate before turning on the power to continue printing.