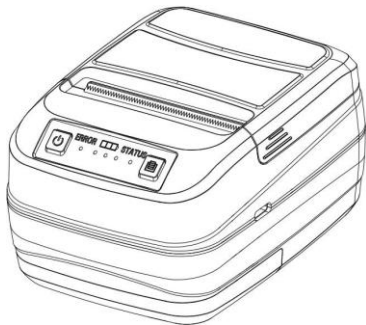


# 2 Inch Portable Thermal Printer

---

## User Manual Rev1.0



### Dlabel APP Download

Windows,Android,IOS: [www.dlabel.cn/hy](http://www.dlabel.cn/hy)  
or Scan this QR code



This manual cannot be changed at will without consent. Our company reserves the right to change the product on technology, parts, software and hardware. If users need further information about the product, they can contact the dealer. Without permission, no section of this manual can be copied or transmitted in any form or by any means.

## C o n t e n t s

1. Product Introduction.....	1
1.1 Safety warning .....	1
1.2 Notes.....	2
2. Overview.....	3
2.1 Introduction .....	3
2.2 Main features.....	4
3. Appearance and Components.....	5
4. Installation and operation .....	6
4.1 Printer installation.....	6
4.2 Communication .....	6
4.3 LED indicator and button function.....	7
4.4. Button operation .....	8
5. Printer Usage.....	9
5.1 Label mode .....	9
5.2 Receipt Mode .....	10
6. Technical Datas.....	12
7. Maintenance.....	14
8. Attention:.....	15

# 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

Warning: The print head is a heat-generating part. Do not touch the print head and surrounding parts during and just after printing.

Warning: Do not touch the surface of the printer head and the connecting part to avoid damage to the print head due to static electricity.

Warning: Do not touch the tearing blade to avoid injury.

Warning: The printer instructions must be strictly followed to configure and use the printer, so as not to harm the human and damage the device.

Warning: Before operating and using the printer, please read the following precautions carefully.

Warning: Operation of this equipment in a residential environment may cause radio interference

Warning: 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 the printer will not be used for a long time, please disconnect the power supply of the printer;
  - Avoid water or conductive substances (such as metal) from entering the printer. Once it occurs, turn off the power immediately;
- The printer must not print without paper, otherwise it will seriously damage the

printer rubber roller and print head;

- When connecting or disconnecting each interface, you must turn off the power 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, fan-fold, punched hole, label paper, tag paper card.

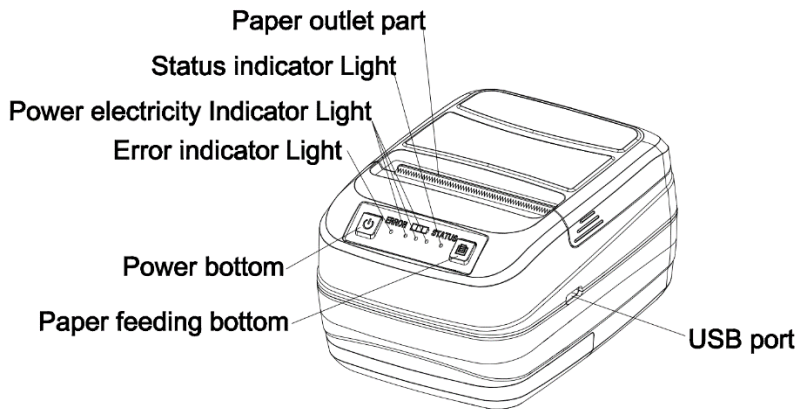
This printer is direct thermal printing method. The printer support 1D and 2D barcodes. Support 4 different label printing directions. Through the zoom function, the font can be enlarged 1-10 times. Therefore, you can greatly improve the

efficiency of label printing in a short time.

## 2.2 Main features

- Maximum printing speed 50mm/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-57mm, easy to operate;
- Automatic paper detection and positioning function;
- Temperature self-adaption control;

### 3. Appearance and Components



## 4. Installation and operation

### 4.1 Printer installation

1. Put printer on a stable place and make sure the power is turned off.
2. Open the paper bin and place the required paper rolls into the bin.
3. Choose the interface (USB or Bluetooth to use).

**Note:** When inserting the power cord into the printer, make sure that the printer power switch is turned off.

### 4.2 Communication

#### 4.2.1.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.



### 4.2.2. Bluetooth communication:


The printer provide Bluetooth 5.0 dual-mode two Bluetooth communication can easily connect to the windows device, android and IOS devices work, and communication distance up to 15m.



Note: Default match password :0000

## 4.3 LED indicator and button function

### 4.3.1, LED Indicators

Under normal status, the ERROR status indicator light is off. When there is an error, the status indicator light will display red and work together with the buzzer to indicate it's error status. The error status corresponding to the number of flashes within one cycle of the buzzer is shown in the table below.

Buzzer and the indicator flashing times	Status
	Printer head over heated

	Printer lack paper or paper check Error, show error
	Label position error

### 4.3.2, Key functions

Paper feeding: When the printer is ready, click the button, in label mode: the printer will enter next label paper; In receipt mode: the printer feeding out paper until release the button.

Calibrate paper (in label mode): Press and hold the paper feed button, and turn on power switch, keep press feed button for 2 seconds and release the button after the buzzer sound. Then the printer will enter paper calibration function. After the calibration is completed, the machine will automatically enter the normal printing mode.

## 4.4. Button operation when power on

### 4.4.1 Print a self-test page

In shutdown status and install paper, please press feed button, and power button at

the same time. When error light on and turn red, a self-test page will be printed out.

#### **4.4.2 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.

#### **4.4.3 Change mode**

In shutdown status, press feed button and power button at the same time after the printer is power on release the power button and keep pressing feed button until you see printer printing the tips tell you the printer is enter another mode then release the FEED button, after that restart the printer you can use normal.

## **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 installation file from the CD or from the company website, and open it. After you open the file, select the 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 "2 Inch Series", and select the USB port and click "Next"
- (5) Wait the driver installation finished.

## **5.2 Receipt Mode**

This printer can support 58mm 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 58MM 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-58-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 directly 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 and Feed button, Charge Status LED, Error and Bluetooth status indicate LED, Battery quantity LED
Sensor		Gap sensor/ Black mark sensor, THP temperature Sensor
Paper Type	Paper Width	20mm-58mm
	Diameter	25-50mm
	Label Length	10-260mm
	Gap Size	Minimum 2 mm
	Media Type	Continuous, gap, black mark, punched hole
	Thickness	0.05mm-0.26mm
Label Paper Type		Roll type
Printer Size		108 mm (D) x80 mm (W) x58 mm (H)
Printer Weight		268g (Include paper and battery)
Open Method		Shell way

Print Method	Direct thermal
Resolution	203 dpi
Print Density	1-15 density Level
Speed	50mm/sec(Max)
Memory	512KB Flash Memory/320KBRAM PSRAM
Interface	USB and Bluetooth
Barcode	1D: 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: QR code
Rotation	0°,90°,180°,270°
Emulation	TSPL, CPCL, ESC/POS
Driver	Windows, Mac, Linux;
TPH Working Life	Over 100,000,000 pulses or over 50 km
Gear Working life	More than 200 kilometers
Power Adaptor	Input: AC 100V~240V(50Hz/60Hz) Output: DC 5V  1000mA

Battery	Type	Rechargeable Lithium polymer battery
	Capacity	2600mAh,3.7V
	Charger	5.0V DC ,1A
working altitude		Only suitable for safe use in areas <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
- Air spray gun or vacuum tool
- Cotton
- 100% alcohol (industrial alcohol)

**Please follow the below cleaning step :**



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 can power to continue printing.