

# LP-56 Thermal Label Printer

## User manual



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If there is any change in this specification and will not be further notice. Please kindly contact with Xiamen Cashino Electronic Technology Co., Ltd. for the the latest version.



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## Safety instructions

Before operating the printer, please read the following precautions carefully:

### 1. Safety warning

(1) The print head is a heat-generating part. Do not touch the print head and surrounding parts during and at the end of printing.

(2) Do not touch the surface of the print head and connect the connectors to avoid damage to the print head due to static electricity.

### 2. Matters needing attention

(1) The printer should be placed in a flat and stable place;

(2) Leave enough space around the printer for operation and maintenance;

(3) The printer should be far away from water sources;

(4) Do not use and store the printer in places with high temperature, high humidity and serious pollution, and avoid direct sunlight, strong light and heat sources;

(5) Avoid placing the printer in places subject to vibration and shock;

(6) Moist air is not allowed to condense on the surface of the printer. If it has already formed, do not turn on the printer before the dew disappears;

(7) Connect the printer's power adapter to an appropriate grounded socket, avoid using the same socket with large motors or other equipment that can cause power supply voltage fluctuations;

(8) If the printer will not be used for a long time, please disconnect the printer power adapter;

(9) Prevent water or conductive substances (such as metal) from entering the printer. Once it happens, turn off the power immediately;

(10) The printer must not print without paper, otherwise it will seriously damage the printing rubber roller and thermal print head;

(11) In order to ensure the printing quality and the life of the product, it is recommended to use recommended or equivalent quality paper;

(12) When plugging or disconnecting each interface, the power must be turned off, otherwise it may cause damage to the printer control circuit;

(13) When the printing effect meets the usage requirements, it is recommended that the user set a low-level printing density as much as possible, so as not to affect the service life of the print head;

(14) Users are not allowed to disassemble the printer for maintenance; KP300 is 3inch kiosk thermal printer which is consist of thermal printer head ,cutter and control board.

## 1.Overview

LP-56 is a thermal label printer with label peeling and backing paper recycling functions. It can support thermal label paper with a maximum printing width of 56mm. This product is mainly used for printing labels or receipts for electronic scale products, and can also be applied to other occasions where labels or receipts need to be printed.

### Feature:

- Low noise direct thermal printing
- With label peeling function and backing paper recycling function
- Open channel design (easy to install the medium)
- Can install large diameter paper roll  $\phi$  100mm(Max)

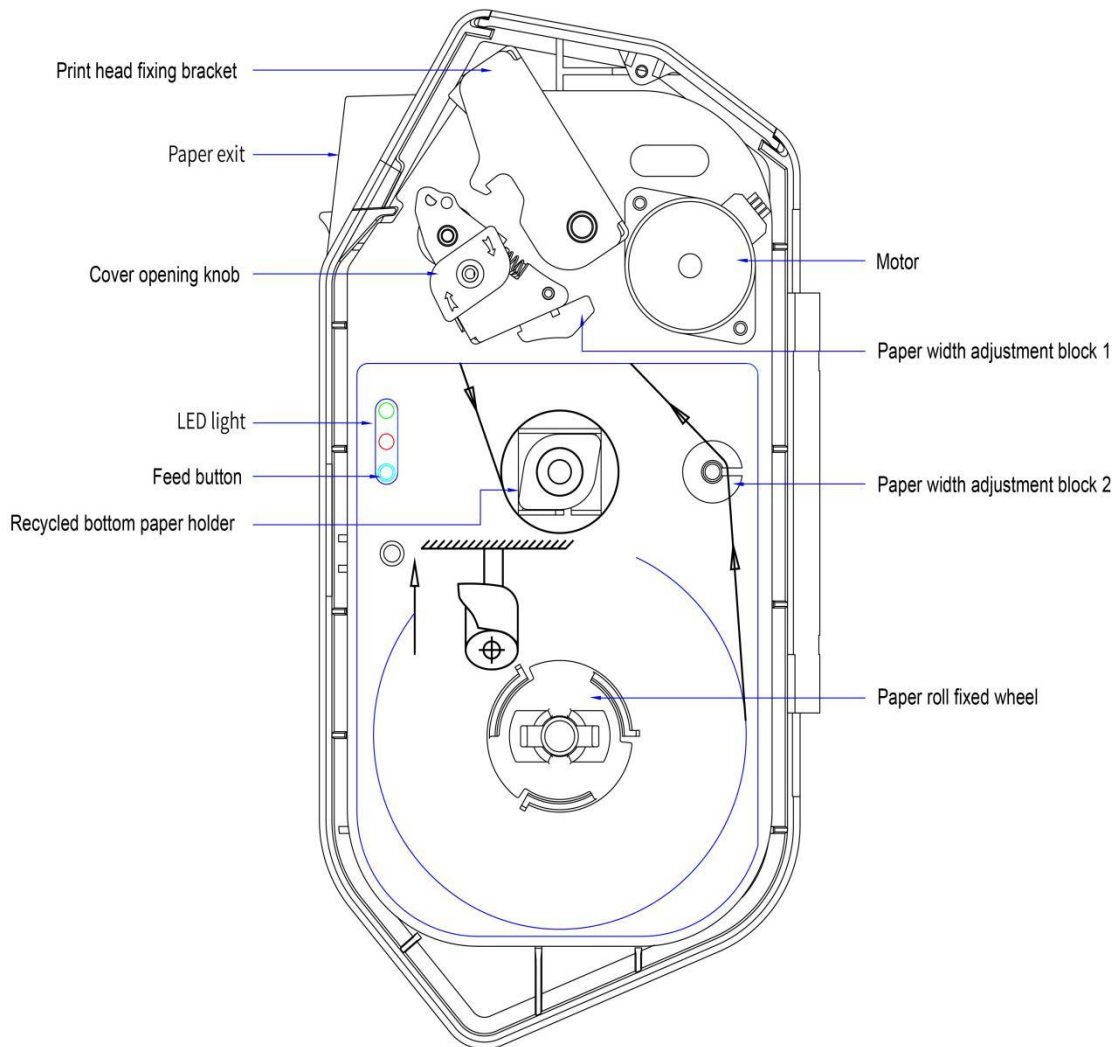
## 2.Product Specifications:

Printing	Print method	Thermal-line dot method
	Print speed	Max:120mm/s
	Resolution	203dpi (8dots/mm)
	Effective printing area	56mm
Paper Roll specification	Paper width	30-62mm
	paper roll diameter	Max:100mm
	paper roll inner diameter	Min:25mm
	Paper thickness	0.06-0.14mm
	Outer diameter of recycled paper roll	Max:50mm
	Paper picking method	Automatic peeling
Physical properties	physical dimension	267mm*129mm*107mm
	Net Weight	1.5KG
Character	Character set	ASCII, GBK and so on
	Print font	ASCII: (9*17,12*24),Chinese: (24*24)
Instruction Set		TSPL、 CPCL、 EPSON ESC/POS Instruction Set
Interface	Interface	USB、 RS232、 LAN
	Power	DC24V/2A
detection	Axis in-position detection	Mechanical switch
	No Paper detection	Photoelectric detection
	Seam Mark Detection	Photoelectric detection
Environmental	Operating temperature	0°C~50°C

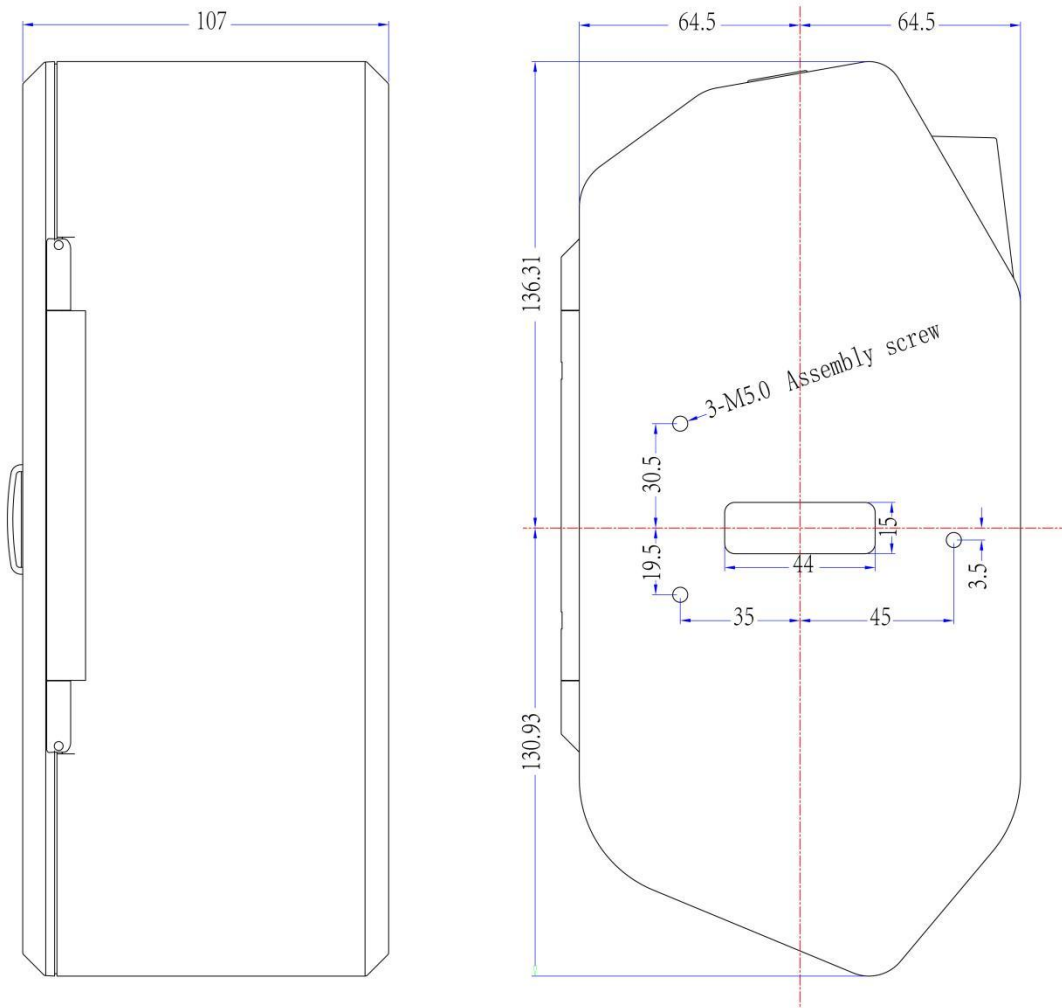
conditions	Operating humidity	20%RH ~85% RH
	Storage temperature	-20°C~60°C
	Storage humidity	5% ~90%RH

### 3.Appearance and size

#### 3.1 Appearance and related components



**3.2 Structure size**



**4. Basic usage**

**4.1 Print self-test page**

Method 1: under the shutdown state, hold down the FEED key, boot up, and print out a self-test page, which contains serial transmission rate, language and other information.

Method two: under the open state, press the TEST key, you can print the self-test page.



## 4.2 Printer status description

The printer has three indicator lights, namely the power indicator light, the error indicator light, and the Bluetooth indicator light.

POWER indicator (Green)	STATUS indicator (Red)	buzzer	Printer status
Keep bright			Working properly
Keep bright	Flash 3 times	3 beeps	No paper
Keep bright	Flash 5 times	5 beeps	Printer head over heating
Keep bright	Flash 6 times	6 beeps	Platen not pressed down

## 4.3 paper feeding

(1) Load the thermal label paper roll into the paper roll



**Note:** The paper roll should fall to the root of the paper roll; the paper runs in the direction shown in the figure during printing. Pay attention to the direction of the paper roll when installing.

(2) Turn the cover opening knob to open the upper cover of the print head

(3) Peel off a few sheets of labels at the end of the thermal label paper, and the length of the backing paper after peeling is about 200mm. Then, as shown in the figure below, pass the thermal label paper around the pressing shaft and pass it into the paper passage from the opening of the paper passage. The first label is pressed on the printing rubber roller.



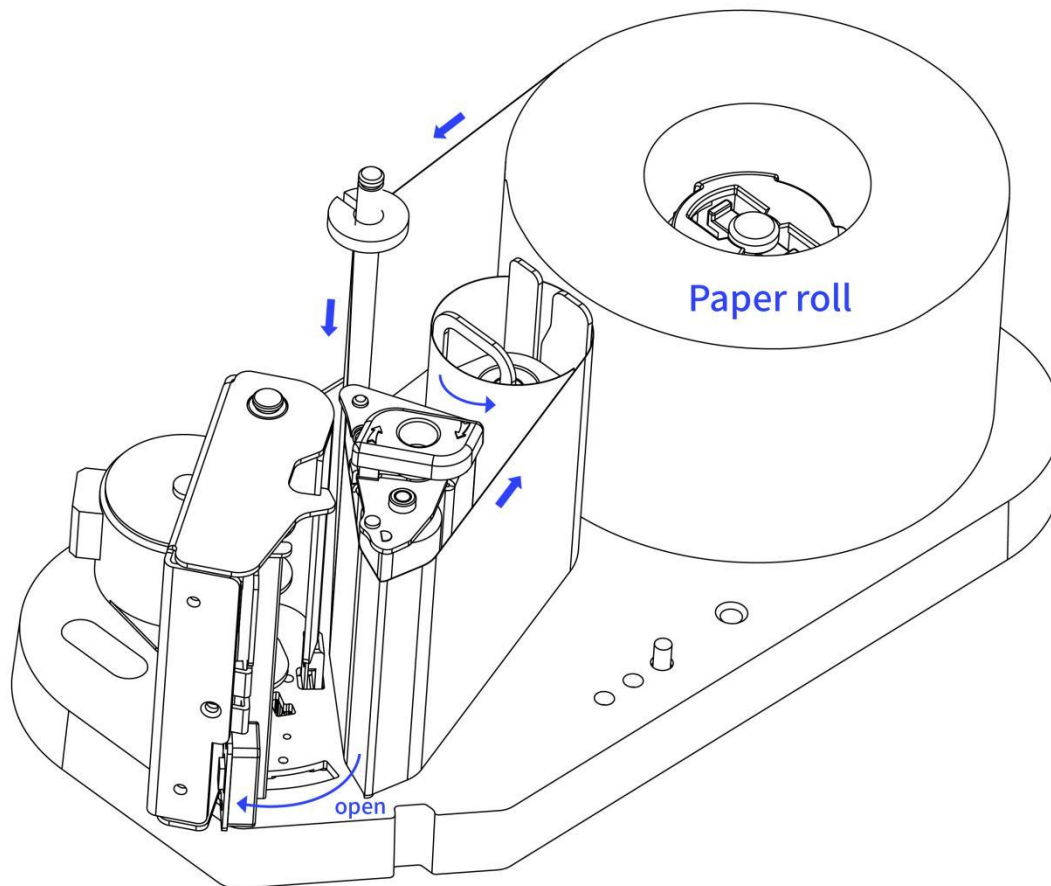
**Note:** Make sure that the bottom edge of the paper reaches the support board, and the end of the first label should not exceed the peeling knife in front of the printing rubber roller.

(4) Close the upper cover of the print head, and adjust the paper adjustment block up and down to a suitable position according to the width of the thermal label paper. Generally, it is recommended to adjust it to 0.5-1mm wider than the paper.

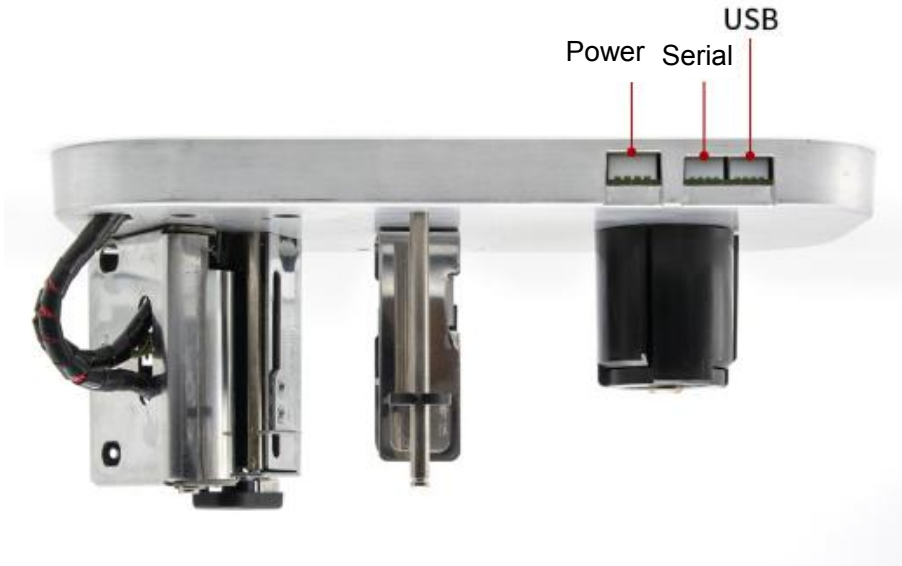
(5) Turn the backing paper of the thermal label paper around the peeling knife, the printing rubber

roller and the backing paper backing shaft as shown in the figure below, and fix the backing paper on the backing shaft with the recycling paper clip, and then as shown in the following figure. Rotate the recovery shaft in the direction shown to make the backing paper in a taut state.

⚠ Note: There is a symmetrical recycling paper clip groove on the recycling shaft, and the recycling paper clip should be inserted into the groove.



### 5.Interface Description



**Power XH2.5mm/4Pin**

Terminal No.	Signal Name	Description
1	GND	Ground
2	GND	Ground
3	VH	Power supply
4	VH	Power supply

### Serial ( RS232/TTL ) XH2.00/4Pin

Terminal No.	Signal Name	Description
1	DTR	Request to send (Data terminal ready)
2	TXD	Transmission data
3	RXD	Receive data
4	GND	Ground

### USB PH2.0 mm/4Pin

Terminal No.	Signal Name	Description
1	VUSB	+5V Power supply
2	D-	Data line negative
3	D+	Data line positive
4	GND	Ground

## 6. Daily maintenance

### ■ What needs to be maintained?

- \* The printing is not clear;
- \* The printing noise becomes larger;
- \* Label positioning is unstable during printing;
- \* Occasionally report lack of paper or not report;
- \* Obvious dust or foreign matter appears on the print head chip, sensor, rubber roller and other parts.

In order to increase the service life of the print head, it is recommended to regularly maintain the printer head, sensor, rubber roller and other printing-related parts. The maintenance frequency is recommended to be at least monthly. If the use environment is harsh, the maintenance frequency should be increased.

■ Clean the print head, sensor and rubber roller

\*Turn off the power of the printer, slide the upper cover limit block, and open the upper cover assembly of the printer to the 90 degree position;

\*Use an alcohol cotton ball (should be wrung out) to wipe off the dust and stains on the surface of the print head;

\*Use an alcohol cotton ball (should be wrung out) to wipe off the dust and stains on the surface of the sensor;

\* Rotate the printing rubber roller, and at the same time use an alcohol cotton ball (should be wrung out) to wipe off the dust and stains on the surface of the printing rubber roller;

\*Wait for 5-10 minutes. After the alcohol has completely evaporated, close the printer cover assembly.



Notice:

- ◇ If you have just finished printing, wait for the print head to cool down completely;
- ◇ Do not scratch the print head and rubber roller with hard objects (such as tweezers, etc.) when cleaning the print head or paper feed roller.