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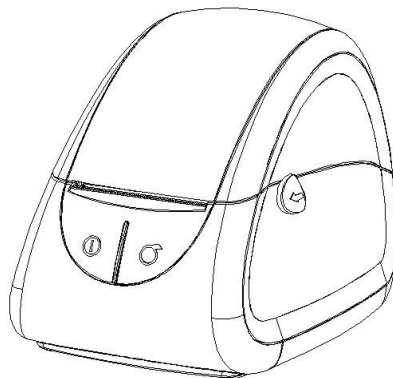
# Label Printer

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## *User Manual*

LPQ58

LPQ80



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## ■ Manual Information

This user manual contains basic information for product usage as well as for emergency measures that may be required.

※ The following separate manuals provide more detailed content on various technological issues and areas.

### **1.Windows Driver Manual**

This manual provides information on the installation instructions and main functions of the Windows Driver.

### **2.Printer Utility Tool Manual**

This manual provides information on the usage of software for function selection of this product, operating condition modification, etc.

### **3.Programming Manual**

This manual provides information on label printer commands.

## ■ Important Safety Instructions

Before using the present appliance, please carefully read the following safety regulations in order to prevent any hazard or material damage.

### 1. Safety Warning



Warning: The print head will become very hot during printing, avoid contact with the print head after printing has finished.



Warnings: Do not touch the printer head and connector in case static damage the printer head.

### 2. Instructions



Warnings: Violating following instructions can cause serious injury or death.

- 1) Do not plug several products in one multi-outlet.
  - This can provoke over-heating and a fire.
  - If the plug is wet or dirty, dry or wipe it before usage.
  - If the plug does not fit perfectly with the outlet, do not plug in.
  - Be sure to use only standardized multi-outlets.
- 2) You must use only the supplied adapter.
  - It is dangerous to use other adapters.
- 3) Do not pull the cable to unplug.
  - This can damage the cable, which is the origin of a fire or a breakdown of the printer.
- 4) Do not plug in or unplug with your wet hands .
  - You can be electrocuted.
- 5) Do not bend the cable by force or leave it under any heavy object.
  - A damaged cable can cause a fire.



Caution: Violating following instructions can cause slight wound or damage the appliance.

- 1) If you observe a strange smoke, odour or noise from the printer, unplug it before taking following measures.
  - Switch off the printer and unplug the set from the mains.
  - After the disappearance of the smoke, call your dealer to repair it.
- 2) Install the printer on the stable surface.
  - If the printer falls down, it can be broken and you can hurt yourself.
- 3) Use only approved accessories and do not try to disassemble, repair or remodel it for yourself.
  - Call your dealer when you need these services.
  - Do not touch the blade of auto cutter.
- 4) Do not let water or other foreign objects drop into the printer.
  - If this happened, switch off and unplug the printer before calling your dealer.
- 5) Do not use the printer when it is out of order. This can cause a fire or an electrocution.
  - Switch off and unplug the printer before calling your dealer.
- 6) Other considerations:
  - Place the printer on a solid and even base so that it cannot fall.
  - Leave enough space around printer for operation and maintenance.
  - Keep all liquids away from the printer.
  - Do not expose the printer to high temperatures, direct sunlight or dust.
  - Ensure the printer is connected to a socket with the correct mains voltage.
  - Switch off the printer **【POWER】** supply when it's not in use for a long time.
  - To ensure the printing quality and reliability, suggest use the same quality or recommend paper supplier.
  - Pls. switch off the **【POWER】** supply when connect/disconnect all the ports or it will cause damage to the printer control circuit.
  - Never carry out maintenance or repair work yourself. Always contact a qualified service technician.
  - Keep this User Manual in a place which is easily accessible at all times.

### 3. Other Precautions

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Due to continuous update of our product, the description of printer specification, accessories, design in this manual may slightly different, please in kind prevail.

### 4. WEEE (Waste Electrical and Electric Equipment)



This mark shown on the product or its literature indicates that the corresponding item should not be discarded at the end of its working life with other household waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate marked items from other types of waste and recycle them responsibly to promote the sustained reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office for details of where and how they can conduct environmentally safe recycling of such items. Commercial users should contact their suppliers and check the terms and conditions of purchase contracts. This product should not be combined with other commercial waste for disposal.

# Chapter1 Introduction

## 1.1Packing List



**Notes:**

1. Unpack the printer and keep the packing material in case you need to ship the printer in the future.
2. Make sure you own all parts as follows, if not, do contact the seller.

### ■ Standard Accessories



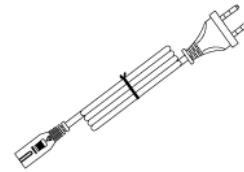
Printer



Quick Start Guide



Power Adapter



Power Cord



Cables Fastener



### ■ Optional Accessories



USB Cable



Serial Cable



Paper Roll

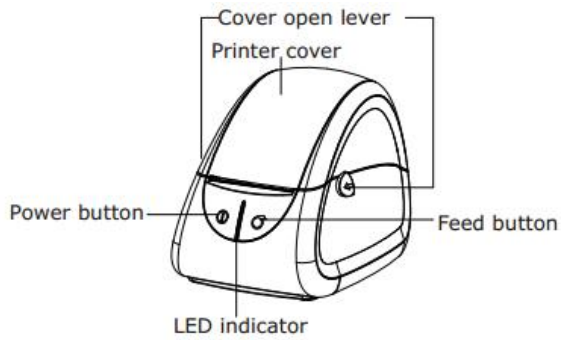


CD

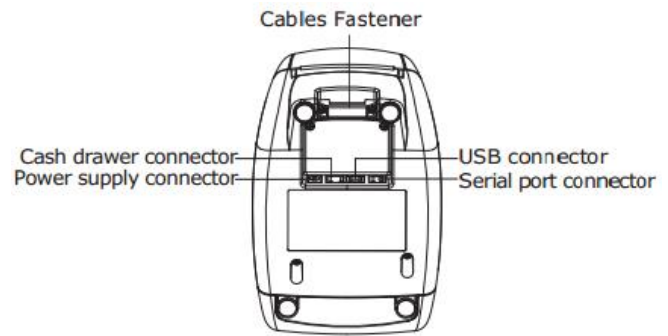
Note: The type of power cord varies by local or region.

## 1.2 Appearance And Components

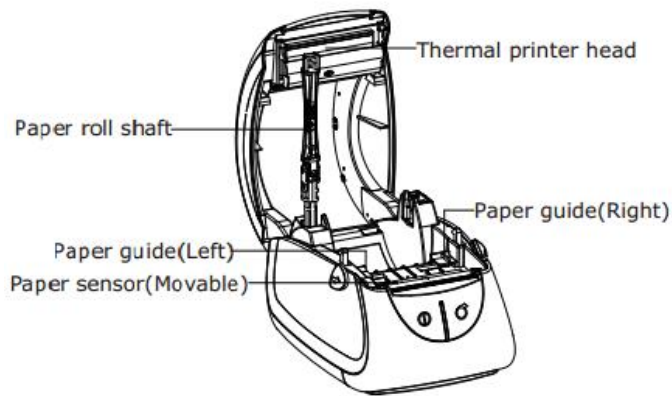
### ■ Front



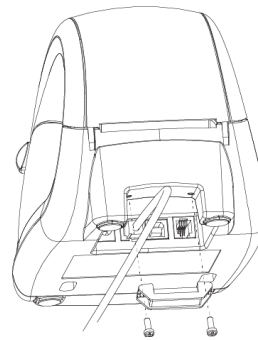
### ■ Rear



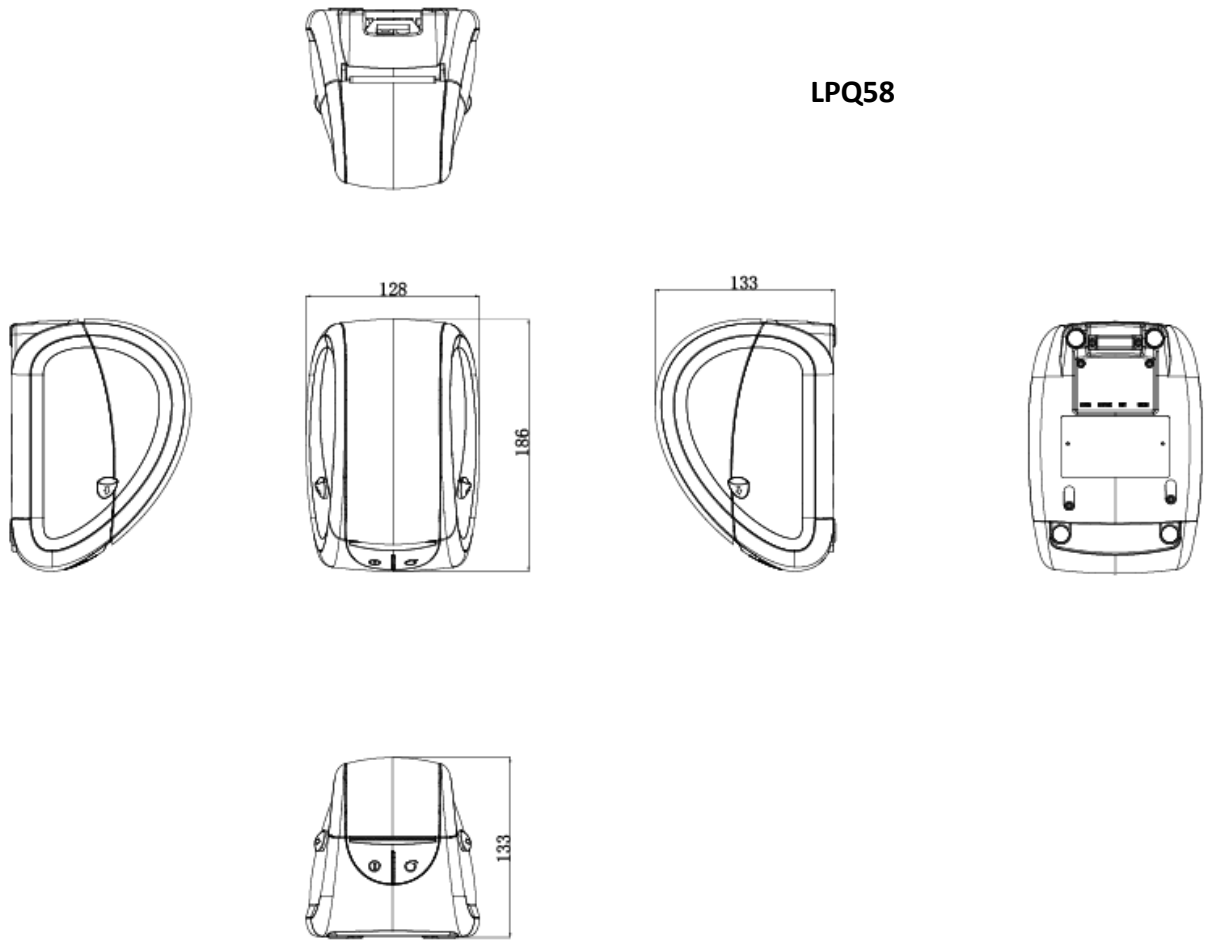
### ■ Inside



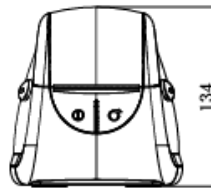
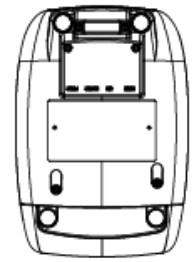
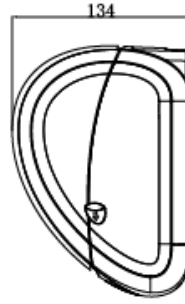
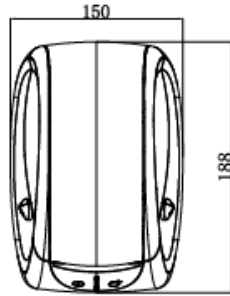
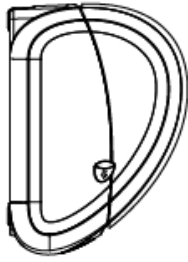
### ■ Install the Cables Fastener



### 1.3 Dimension



LPQ80



# Chapter 2 Specification

(2/1)

Items		Parameter	
		LPQ58	LPQ80
Printing	Printing Method	Direct Thermal	
	Resolution	203dpi(8dots/mm)	
	Printing Speed	76mm/s Max.	102mm/s Max.
	Printing Width	56mm Max.	80mm Max.
	Printing Length	400mm	300mm
Processor		32 bit RISC CPU	
Memory	RAM	2MB	
	Flash	2MB	
Detection	Sensors	Out of Paper Detection, Gap Detection, Notch Detection, Black mark Detection, TPH Temperature Detection	
Media	Types	Fan-fed or Roll-fed, Die-cut or Continuous Label	
	Width	1"(25mm) – 2.44"(62mm)	1"(25mm) – 3.35"(85mm)
	Thickness	0.003"(60um) – 0.007"(180um)	
	Label Roll Diameter	90mm	
	Core Diameter	0.5"(12.7mm),1"(25.4mm),1.5"(38.1mm)	
Programming Language		TSPL	
Software	Label Design	Bartender Ultralite	
	Driver	Windows 2000,XP,Vista,8,10	
Resident Fonts	Bitmap Fonts	6, 8, 12, 16, 32, OCR A & B. 90°, 180°, 270° rotatable and 10 times expandable in horizontal and vertical directions	
Code Pages		DOS437,720,737,755,775,850,852,855,856,857,858,860,862,863,864,865,866, Windows 1250,1251,1252,1253,1254,1255,1256,1257,1258 ISO8859-1,-2,-3,-4,-5,-6,-8,-9,-15 DBCS 932 (JIS), 936(GBK), 949 (Koran), 950(BIG5)	
Barcode	1D	Code 39, Code 93, EAN 8/13 (add on 2 & 5), UPC A/E (add on 2 & 5), I 2 of 5 & I 2 of 5 with Shipping Bearer Bars, Codabar, Code 128 (subset A, B, C), EAN 128, RPS 128, UCC 128, UCC/EAN-128 K-Mart, Random Weight, Post NET, ITF 14, China Postal Code, HIBC, MSI, Plessey, Telepen, FIM, GS1 DataBar, German Post Code, Planet 11 & 13 digit, Japanese Postnet, I 2 of 5 with human readable check digit, Standard 2 of 5, Industrial 2 of 5, Logmars, Code 11, Code 49, Cadablock	
	2D	PDF417, Data matrix code, Maxi Code, QR code, Micro PDF417, Micro QR code, Aztec code	
Interfaces		USB,RS232C	
Control Panel		Tri-color Status LED, Power and Feed button	

(2/2)

Items		Parameter	
		LPQ58	LPQ80
Power Adapter	Power Input	AC100V ~240V 50/60Hz 1.5A	
	Power Supply	DC12V 2A	
Environment	Operation	41°F - 104°F (5°C-40°C),30% - 85% (no condensing)	
	Storage	-4°F - 122°F (-20°C-50°C),10% - 50% (no condensing)	
Physical Characteristics	Dimension(L*H*W)	186*133*128mm	188*134*150mm
	Weight	805g(excluding consumables)	880g(excluding consumables)
Options & Accessories		External label Roll Holder	
Agency Approvals		CCC,FCC,CE	

## Chapter 3 Installation & Usage

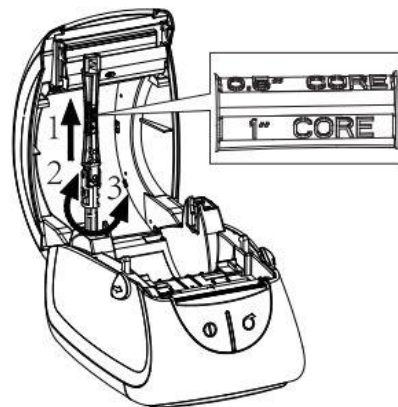
### 3.1 Media Loading

#### 3.1.1 Paper Roll Loading

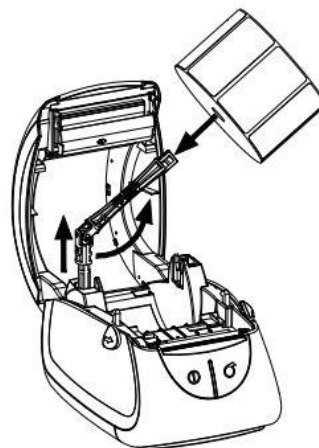
1. Use both of your index fingers to push the buttons towards front to open the top cover



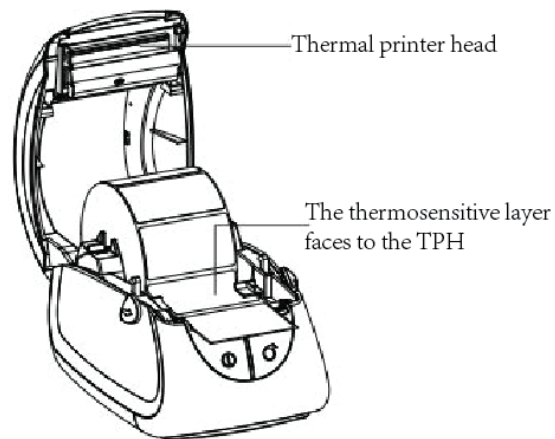
2. Pull out the paper roll holder, 0.5/1.0/1.5 inch of core is accessible.



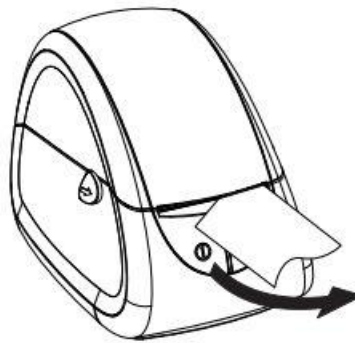
3. Insert the paper roll into the holder, and then lock the holder.



4. Pull some paper out, adjust the paper guide to fix the paper.

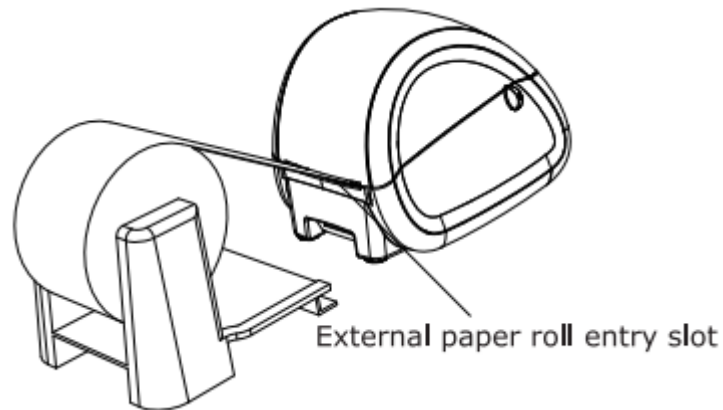


5. Close the cover and tear off the excess paper.

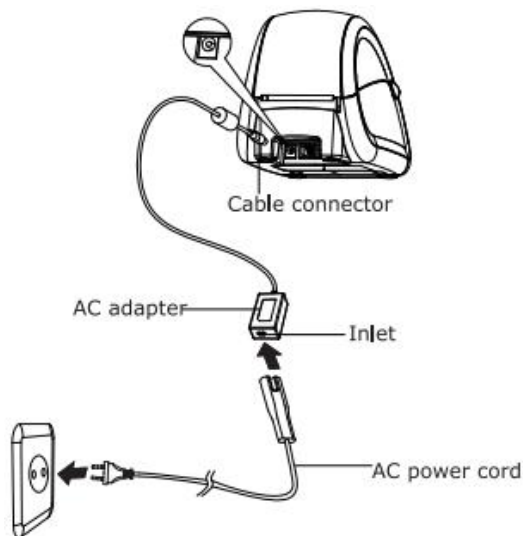


### 3.1.2 Fanfold Paper and Big Roll Paper

When you use fanfold paper or big roll paper, please refer to the graph below to assemble the external roll mount and adjust the paper guide to fix the paper.



### 3.2 POWER Connection



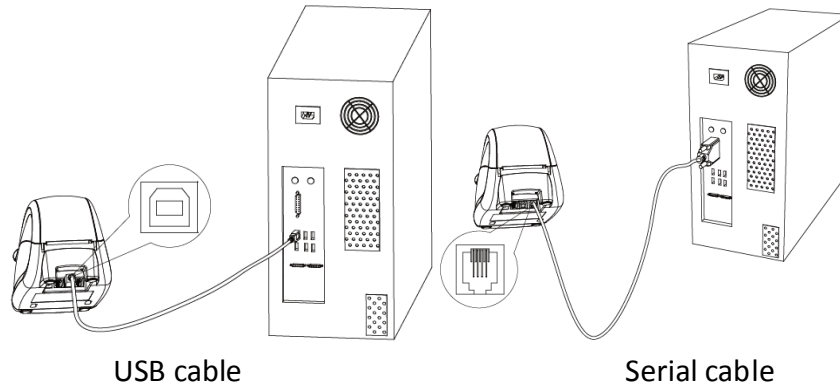
- 1) Turn off the printer **【POWER】** switch.
- 2) Check to see that the AC adapter voltage matches that of the **【POWER】** source.
- 3) Connect the AC adapter jack to the printer **【POWER】** connector.
- 4) Connect the **【POWER】** cord to the AC adapter.
- 5) Connect the **【POWER】** cord to a **【POWER】** source/outlet.

### 3.3 Interface Cable Connection

Connect the interface cable as shown below.

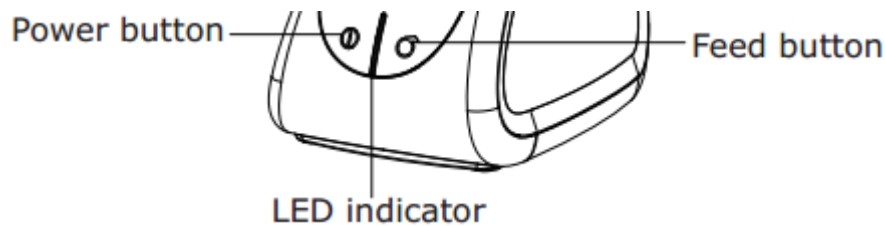
This printer supports the following communications interface standards.

- RS-232C(Serial) Cable
- USB B-Type Cable



- 1) Turn off the **【POWER】** switch.
- 2) Connect the communication cable to the printer communication port to be used.
  - Connect the RS-232C(Serial) Cable to the serial port.
  - Connect USB B-Type cable to the USB port.

### 3.4 Button and LED



#### 3.4.1 Control Button

##### ■ 【POWER】 button

This button is used to turn the printer on/off.

When the printer is off, keep pressing 【POWER】 button about 1.25 second, the printer is on and the LED indicator is blue. The printer work normally, the LED indicator is green. When paper out or abnormal working, the LED indicator is red.

##### ■ 【FEED】 button

This button is used to 【FEED】 paper manually, take the self-test.

- 1) To 【FEED】 paper manually, press this button.
- 2) For information on the self-test, refer to “3.7. Test Printing”.

##### ■Settings mode

1)Finish the following two steps within 2 seconds after 【POWER】 on will put the printer into Setting Mode.

- ①Press 【POWER】 button three times;
- ②press 【FEED】 button one time .

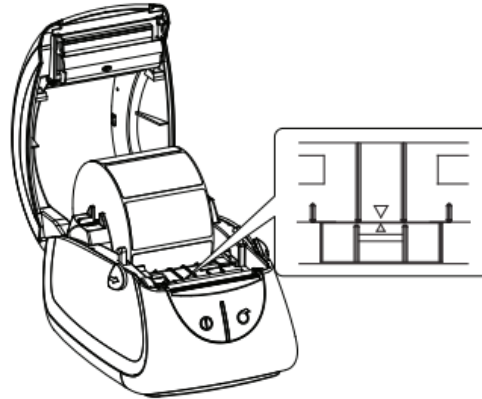
2)In setting mode, press 【POWER】 button to switch the setting item, press 【FEED】 button to confirm the change and enter to next setting item.

#### 3.4.2 LED indicator for various printer statuses

LED Indicators		Remarks
Color	Status	
BLUE	ON	The printer is ready to print with label media
Green	ON	The paper is feeding/under printing
RED	ON	The printer cover button is not under work position
CYAN	ON	The printer is ready to print with continuous media
PINK	ON	The thermal printer head is overheated
BLUE	FLASH	Do not pass the RAM test
RED	FLASH	Out of paper

## 3.5 Preparing for Label Printing

The movable paper sensor must be fixed as shown below to make sure that paper sensor can detect the paper status and label location under label printing mode.



## 3.6 Parameter Setting

### 3.6.1 Printer setting using utility tool

Various printer settings(Baud rate, Density, Paper type, etc.) can be changed using the utility tool .

Refer to the Printer Utility Tool Manual for more detailed information.

### 3.6.2 Change the Setting Manually

#### ■ Enter Setting Mode

Please follow the following steps to enter parameters setting mode:

***NOTE: It should be done in the 2 seconds after printer 【POWER】 on.***

Press 【POWER】 button three times, then press 【FEED】 button one time

In setting mode, 【POWER】 button is used for switch the menu and 【FEED】 button is used for confirm the change and quit the current menu to enter the next menu.

#### ■ Parameter Setting

1.When printer succeeds in entering the setting mode, it prints the following contents and enters the first parameter setting – baud rate setting.

**Enter setting mode:**  
**Setting baud:**  
**Baud = 9600**

The default baud rate is 9600, when the baud rate does not need to be changed, press the **【FEED】** button once to quit the current menu and enter the next settings.

If you want to change it, press **【POWER】** button to switch the setting value and the printer will print out the current setting: 'baud= \*\*\*\*\*'. When the value is required, press the **【FEED】** button once to confirm and quit, then enter the second setting – paper type setting.

**Optional baud rates: 9600, 19200, 38400, 57600, 115200.**

2. After entering paper type setting mode, it prints the following contents:

**Setting paper type:**  
**Paper type: Label**

The default paper type is label, when the paper type does not need to be changed, press the **【FEED】** button once to quit the current menu and enter the next settings.

If you want to change it, press **【POWER】** button to switch the setting value and the printer will print out the current setting: 'paper type: \*\*\*\*\*'. When the value is required, press the **【FEED】** button once to confirm and quit, then enter the third setting – print density setting

**Optional paper type: receipt, label, black mark and auto.**

**Note:**

- Under auto mode, printer feeds paper automatically to identify the media type after power on.
- Under label mode, the default label height is 120mm. Max label height which can be located by printer is 400mm. It can be modified according to the user's need by printer utility tool. See more information in <<Printer Utility Tool Manual>>.
- Under black mark mode, the default gap is 300mm. Max label gap which can be located by printer is 400mm. It can be modified according to the user's need by printer utility tool. See more information in <<Printer Utility Tool Instructions>>.

3. After entering density setting mode, it prints the following contents:

**Setting density:**  
**Density:2**

The default density is 2, when the density does not need to be changed, press the **【FEED】** button once to quit the current menu and enter the next settings.

If you want to change it, press **【POWER】** button to switch the setting value and the printer will print out the current setting: ' density: \*\*\*\*\* '.When the value is required, press the **【FEED】** button once to confirm and quit, then enter the fourth setting -print width setting.

***Optional density: 0(Lowest), 1( low), 2(middle), 3(high), 4(highest).***

4. After entering print width setting mode, it prints the following contents:

**Set print width mode:**  
**Print width: default**

The default print width is default(384dots),when the print width does not need to be changed, press the **【FEED】** button once to quit the current menu and enter the next settings.

If you want to change it, press **【POWER】** button to switch the setting value and the printer will print out the current setting: ' print width: \*\*\*\*\* '.When the value is required, press the **【FEED】** button once to confirm and quit, then enter the last setting -print protocol setting.

***Optional printing width: default (384dots) and full area (448dots).***

5. After entering protocol setting mode, it prints the following contents: (**NOTE: This mode is only available when you use label paper.**)

**Set protocol:**  
**Protocol: TSPL**

The default protocol is TSPL, when the protocol does not need to be changed, press the **【FEED】** button once to quit and then printer will automatically power off .

If you want to change it, press **【POWER】** button to switch the setting value and the printer will print out the current setting: protocol :'\*\*\*\*\* '.When the value is required, press the **【FEED】** button once to confirm and quit, then printer will automatically **【POWER】** off.

***Optional protocol: TSPL, ESC/POS***

***NOTES: When receipt paper is used , only ESC/POS protocol is accessible.  
When label paper is used, protocol type can be set to either ESC/POS or TSPL.***

6. Power on, then above settings take effect.

## 3.7 Test Printing

### 3.7.1 Self Test

The self-test checks whether the printer has any problems.

The method of self-test:

1. Turn the printer off.
2. Load roll paper, close the printer cover.
3. Press the **【FEED】** button and **【POWER】** button simultaneously turns the printer on, the printer prints 'self-test page' .

### 3.7.2 Printing using Windows driver

1. Install the Windows driver. Refer to the "Windows driver manual" for the installation procedure.
2. Set the "port" of Windows driver to the appropriate interface to be used.
3. Print the test page using the "Print test page" function of Windows driver.

# Chapter 4 Interface

## 4.1 USB interface

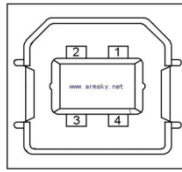


Figure 4-1

PIN No.	Signal name
1	VBUS
2	D-
3	D+
4	GND

## 4.2 Cashdrawer



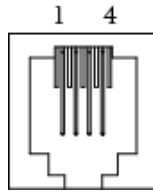
Pin No.	Signal	Function
1	FG	Frame Ground
2	DRAWER1	Drawer kick-out drive signal 1
3	DRSW	Drawer open/close signal
4	VDR	Drawer driving source
5	DRAWER2	Drawer kick-out drive signal 2
6	GND	GND

Voltage:12V DC

Current:2A max.

Signal: “L” = 0~0.5 V ; “H” = 2.4~3.3 V

### 4.3 Serial Interface



PIN No.	Signal name
1	RTS
2	RXD
3	GND
4	TXD

## Chapter 5 Cleaning

Adhesives and coatings of the media can transfer onto the printer parts over time along the media path including the thermal print head and media sensor. This build-up can accumulate dust and debris. Failure to clean the print head, media path, and media sensor could result in print quality, worst more of inadvertent loss off labels, label jams and possible damage to the printer.

### ※ CAUTION

- Make sure to turn the printer off prior to cleaning.
- As the print head gets very hot during printing, if intending to clean the print head, turn the printer off and wait approximately 2~3 minute before commencement.
- When cleaning the print head, take care not to touch the heated portion of the print head.  
→ Printer Head is susceptible to damage from static electricity, etc.
- Take care not to allow the print head to become scratched and/or damaged in any way.

### 5.1 Cleaning Media Sensor

Debris or dirt on the paper sensor can cause a miss-read or unstable detection of the label gap. Clean with a cotton bud dampened with alcohol.

### 5.2 Cleaning Thermal Print Head

Thermal Paper stock on the print head, which degrades print quality. Clean the print head with methanol or isopropyl alcohol and a cotton bud. Do not touch the heating elements with your fingers.

- 1) Open the Printer Cover and then use the cleaning pen to clean the head in the direction from the center of the head to two sides.
- 2) After cleaning the head, do not use the printer until the alcohol used for cleaning evaporates completely (1~2 min) and the printer has completely dried.

※ Perform the cleaning process each time the paper roll is replaced to prevent print quality deterioration.

### 5.3 Cleaning Roller and/or Paper Path

- 1) Open the printer cover and then remove the paper.
- 2) Remove any dust or foreign substance using dry cloth or cotton swab.
- 3) Soak the cloth or cotton swab in alcohol for medical use and use it to remove adhesive foreign substances or other pollution materials.
- 4) After cleaning the parts, do not use the printer until the alcohol evaporates completely (1~2 min) and the printer has completely dried

※ Clean the parts when there is a degradation of print quality or paper detection.