



**IPSi**

**INTEGRATED  
PRODUCTIVITY  
SYSTEMS**

# TC200 Series

■ Thermal Transfer ■ Direct Thermal  
Desktop Barcode Printers



Series Lists:

TC200 / TC300

TC210 / TC310

# User Manual

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# 1. Introduction

Thank you very much for purchasing TSC bar code printer.

The TC200/210 series of thermal transfer desktop barcode printer, label printer with its new, smaller footprint, offers the high performance that customers have come to expect from TSC™. Durable, reliable and fast, the TC200/210 generates 4-inch-wide labels, tags or receipts at up to 6 ips, offering a price-performance combination that is unmatched by other desktop thermal barcode printers on the market.

As with all TSC printers, the TC200/210 series features the TSPL-EZ™ printer-control language, which is fully compatible with other TSC printer languages, while supporting TPLE (Translation Printer Language Eltron®) and TPLZ (Translation Printer Language Zebra®). The languages automatically decipher and translate the format of each label as it is sent to the printer. TSPL-EZ™ also features internal scalable True Type fonts (based on the Monotype® font engine), which are typically found only in more expensive printers.

This document provides an easy reference for operating this printer. For system integration, the TSPL/TSPL2 printer programming manual or SDKs can be found on TSC website at: <https://www.tscprinters.com>.

# 1.1 Product Specification

Product standard feature	TC200/TC300	TC210/TC310
	model	model
Thermal transfer/ or direct thermal	V	V
1 operating button and 1 LED with 3 colors	V	V
6 operating buttons and 1 LED with 3 colors	V	V
320 x 240 TFT LCD (UI of operating menu)	V	V
32-bit RISC high performance processor (Atmel 9260/ 210 MHz)	V	V
32-bit RISC high performance processor (Atmel 9G25/ 400 MHz)	V	V
Center alignment holder with spiral spring	V	V
Gap transmissive sensor (Fixed, center of offset 4 from center)	V	V
Black mark reflective sensor (Position adjustable)	V	V
Ribbon encoder sensor	V	V
Head open sensor	V	V
Automatic media/ribbon sensor selecting	V	V
4 MB Flash memory	V	V
128 MB Flash memory	V	V
8 MB DRAM	V	V
64 MB DDR2 DRAM	V	V
SD card reader for memory expansion, up to 4 GB	V	V
SD card reader for memory expansion, up to 32 GB	V	V
RS-232 interface (Max. 115,200 bps)	V	V
USB 2.0 interface (Full speed mode)	V	V
USB 2.0 interface (Hi speed mode)	V	V
Internal Ethernet print server (10/100 Mbps) interface	V	V
USB host	V	V
Parallel (SPP mode)	V	V

Standard industry emulations right out of the box including Eltron® and Zebra® language support	V	V
Internal 8 alpha-numeric bitmap fonts	V	V
Fonts and bar codes can be printed in any one of the four directions (0, 90,180, 270 degree)	V	V
Internal Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font	V	V
Downloadable fonts from PC to printer memory	V	V
Unicode UTF8 support	V	V
Bar code, graphics/image printing	V	V



## 1.1.1 Printer Optional Features

The printer offers the following optional features.

Product option feature	User option	Dealer option	Factory option
<b>Peel-off kit</b> Paper length: 1" ~ 6" Note: This peel-off module is supported for the thermal/ plain label only.		V	
<b>Regular cutter (full cut guillotine cutter)</b> Media thickness: 0.06~ 0.19 mm Media length: 1" ~ max. length Max. width: 110 mm Media type: receipt and label liner w/o glue Note: Except for the linerless cutter, all regular/heavy duty/care label cutters DO NOT cut on media with glue.		V	
<b>KP-200 Plus keyboard display unit</b>	V		
<b>External roll mount with 3" core label spindle</b>	V		
<b>Sleeve adapter</b>	V		
<b>External Bluetooth module (serial interface)</b>	V		
<b>802.11 b/g/n wireless module (serial interface)</b>	V		
<b>Parallel port for TC210/TC310 series (replace USB host)</b>			V
<b>Real time clock &amp; Buzzer</b>			V

## 1.2 General Specification

### General Specifications

<b>Physical dimensions</b>	203 mm(W) x 191.5 mm(H) x 259.3 mm(D)
<b>Weight</b>	TC200/TC300: 2.2 kg TC210/TC310: 2.3 kg
<b>Mechanism</b>	Clamshell with Double-walled plastic
<b>Power</b>	External universal switching power supply • Input: AC 100-240V/ 2.5A, 50-60 Hz • Output: 90W
<b>Environmental condition</b>	Operation: 5 ~ 40°C (41 ~ 104°F), 25~85% non-condensing Storage: -40 ~ 60 °C (-40 ~ 140°F), 10~90% non-condensing
<b>Environmental concern</b>	Comply with RoHS, WEEE, REACH

## 1.3 Print Specification

<b>Print Specifications</b>	<b>TC200</b>	<b>TC210</b>	<b>TC300</b>	<b>TC310</b>
<b>Print head resolution (dots per inch/mm)</b>	203 dots/inch (8 dots/mm)		300 dots/inch (12 dots/mm)	
<b>Printing method</b>	Thermal transfer/ or direct thermal			
<b>Dot size (width x length)</b>	0.125 x 0.125 mm (1 mm = 8 dots)		0.084 x 0.084 mm (1 mm = 12 dots)	
<b>Print speed (inches per second)</b>	Up to 6 IPS		Up to 4 IPS	
	Max. 3 ips for peeler mode			
<b>Max. print width</b>	108 mm (4.25")		105.6 mm (4.15")	
<b>Max. print length</b>	2,286 mm (90")	25,400 mm (1000")	1,016 mm (40")	11,430 mm (450")
<b>Printout bias</b>	Vertical: 1 mm max. Horizontal: 1 mm max.			

## 1.4 Ribbon Specification

### Ribbon Specifications

Ribbon outside diameter	Max. 40 mm OD
Ribbon length	110 meters
Ribbon core inside diameter	0.5" ID core
Ribbon width	40 mm ~110 mm
Ribbon wound type	Ink coated outside wound

## 1.5 Media Specification

### Media Specifications

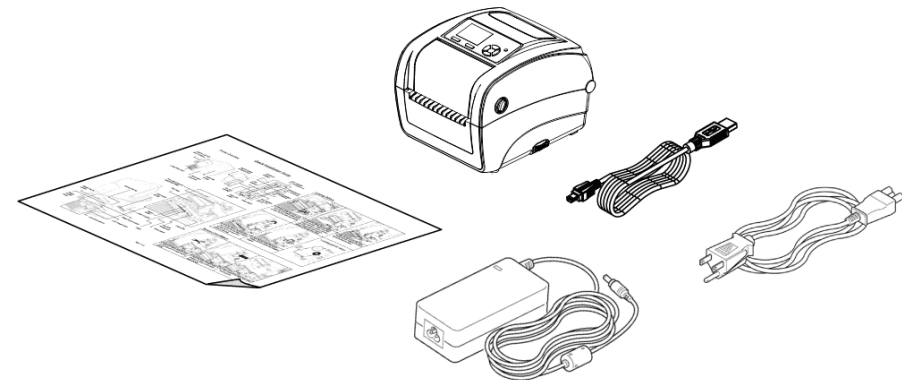
Media roll capacity	Max. 5" OD
Media core diameter	1" & 1.5 ID core
Media type	Continuous, die-cut, black mark, external fan-fold, notch
Media wound type	Outside wound
Media width	20 mm ~ 112 mm
Media thickness	0.06 mm ~ 0.19 mm
Label length	10 mm ~ max. print length
Label length (peeler mode)	25.4 mm ~ 152.4 mm (1" ~ 6")
Label length (cutter mode)	25.4 ~ max. print length
Black mark	Min. 8 mm (W) x 2 mm (H)
Gap height	Min. 2 mm

## 2. Operation Overview

### 2.1 Unpacking and Inspection

This printer has been specially packaged to withstand damage during shipping. Please carefully inspect the packaging and printer upon receiving the bar code printer. Please retain the packaging materials in case you need to reship the printer.

- One printer unit
- One quick installation guide
- One power cord
- One auto switching power supply
- One USB interface cable

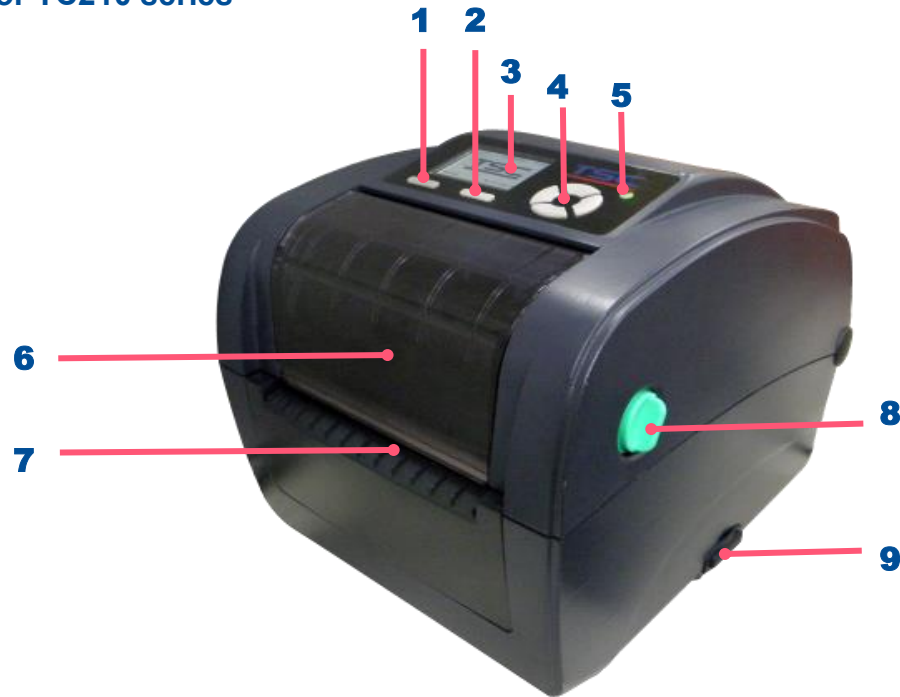


**If any parts are missing, please contact the Customer Service Department of your purchased reseller or distributor.**

## 2.2 Printer Overview

### 2.2.1 Front View

For TC210 series

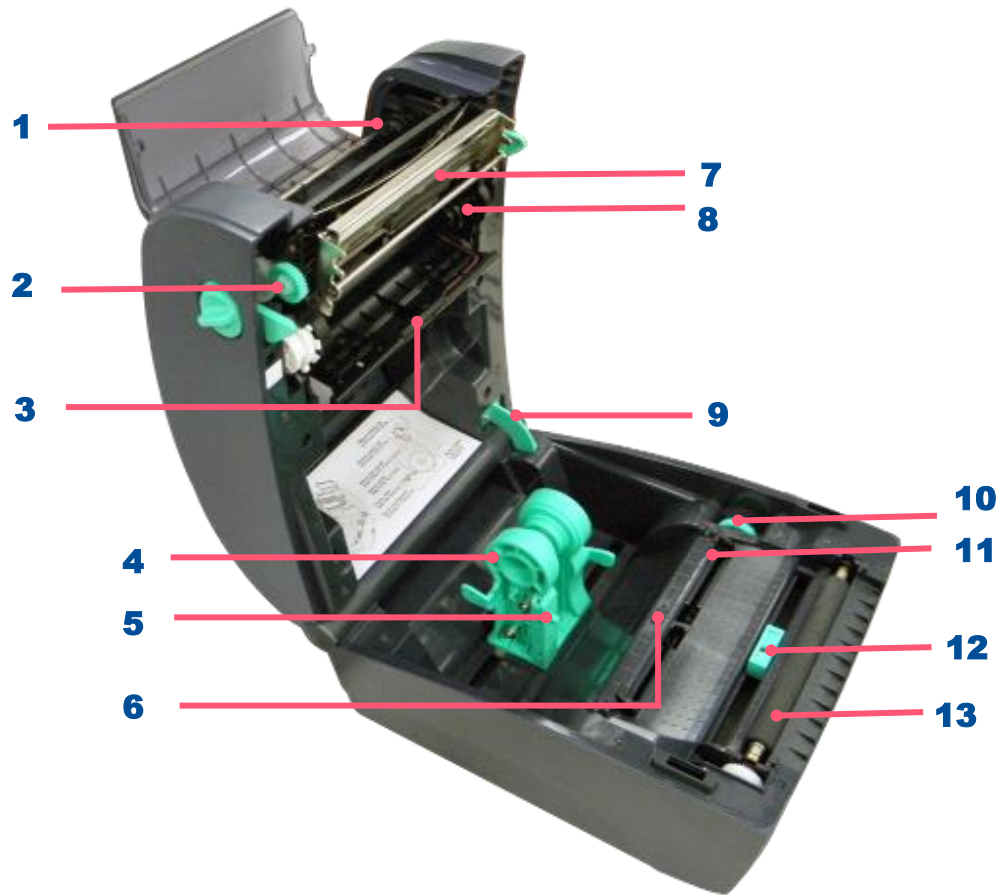


1. Menu button
2. Feed button
3. LCD display
4. Navigation button
5. LED indicator
6. Ribbon access cover
7. Paper exit chute
8. Top cover open lever
9. SD card socket

For TC200 series



## 2.2.2 Interior View



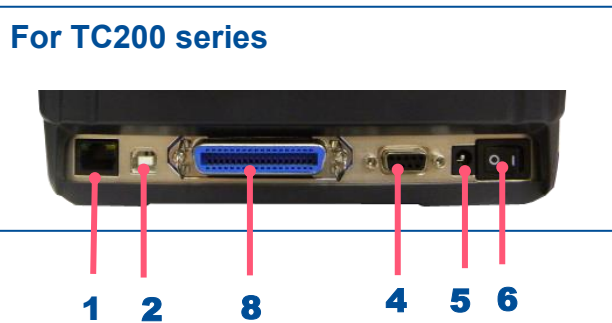
1. Ribbon rewind hub
2. Ribbon rewind gear
3. Gap sensor (receiver)
4. Media holder
5. Media holder locking switch
6. Gap sensor (transmitter)
7. Print head
8. Ribbon supply hub
9. Top cover support
10. Media guide adjustment button
11. Media guides
12. Black mark sensor
13. Platen roller

## 2.3.2 Rear View

For TC210 series



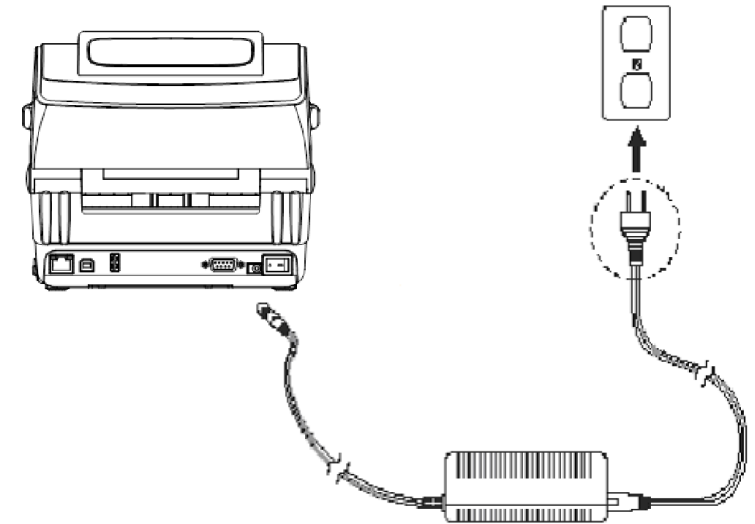
1. Ethernet interface
2. USB interface
3. USB host
4. RS-232C interface
5. Power jack socket
6. Power switch
7. External label entrance chute
8. Parallel interface



## 3. Setup

### 3.1 Setting up the Printer

1. Place the printer on a flat, secure surface.
2. Make sure the power switch is off.
3. Connect the printer to the computer with the provided USB cable.
4. Plug the power cord into the AC power cord socket at the rear of the printer, and then plug the power cord into a properly grounded power outlet. Place the printer on flat surface.



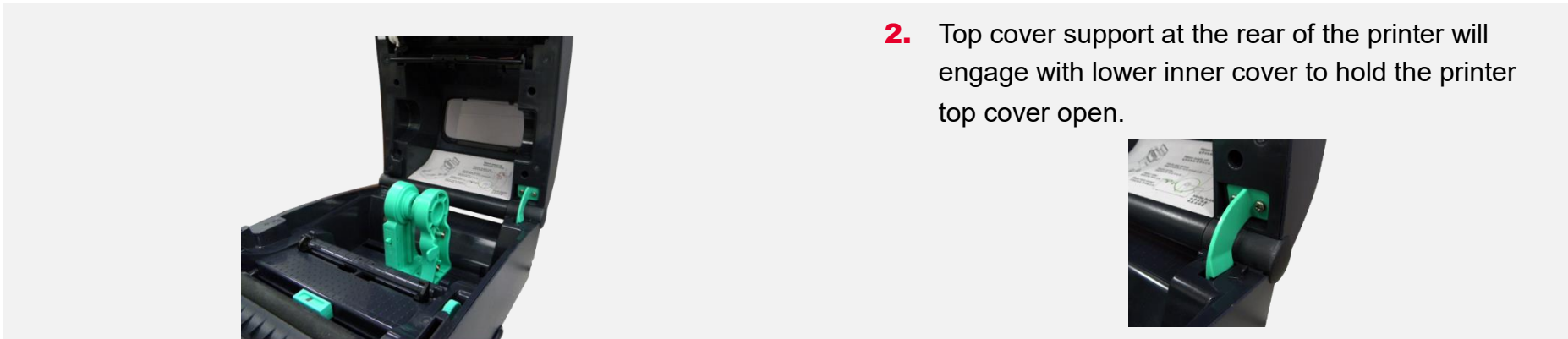
◆ **Note: Please switch OFF the printer before plugging in the power cord to printer power jack.**



## 3.2 Open / Close the Top Cover



1. Open the printer's top cover and lift the top cover to the maximum open angle.



2. Top cover support at the rear of the printer will engage with lower inner cover to hold the printer top cover open.



3. Hold the top cover and press the top cover support to disengage the top cover support with lower inner cover. Gently close the top cover.

### 3.3 Loading the Ribbon



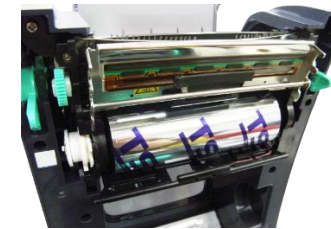
1. Open the printer's top cover and lift the top cover to the maximum open angle.



2. Open the ribbon access cover and the media cover.



3. Insert the ribbon right side onto the supply hub. Align the notches on the left side and mount onto the spokes.



4. Insert the paper core right side onto the rewind hub. Align the notches on the left side and mount onto the spokes.



5. Stick the ribbon onto the ribbon rewind paper core.

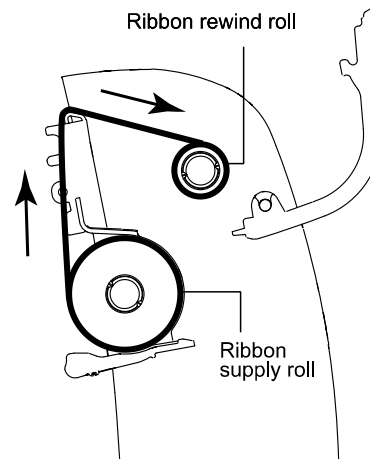


6. Turn the ribbon rewind gear until the ribbon plastic leader is thoroughly wound and the black section of the ribbon covers the print head.



7. Close the ribbon access cover and the top cover.

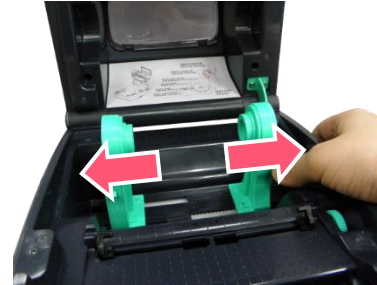
### Loading path for ribbon



## 3.4 Loading the Media



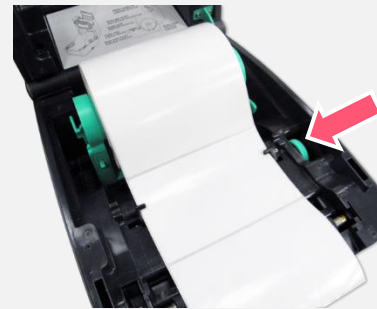
1. Open the printer's top cover and lift the top cover to the maximum open angle.



2. Separate and hold open the media holders.



3. Place the roll between the holders and close them onto the core.



4. Place the paper, printing side face up, through the media sensor and place the label leading edge onto the platen roller. Move the media guides to fit the label width by turning the guide adjuster knob.

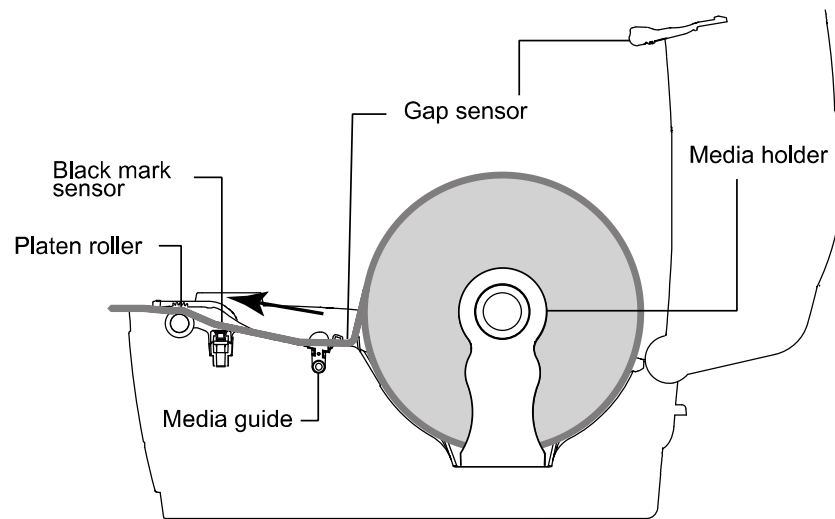


5. Close the top cover gently.

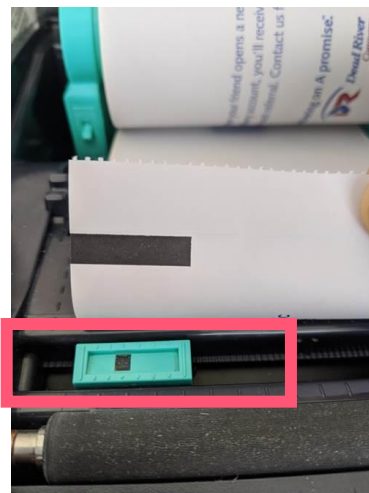


6. Use software or LCD menu function to set the media sensor type and calibrate the selected sensor. (refer to ch. 4&5)

## Loading path for media



- ※ For black mark media type, please make the side of the black mark face downward to the black mark sensor and align the position by adjusting black mark sensor.



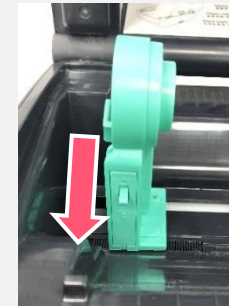
## 3.5 Loading the Fan-fold Media



1. Open the printer top cover then insert the fan-fold media through the external label entrance chute.



2. Separate and hold open the media holders.  
**Note: Press down the media holder lock switch to hold the media firmly.**



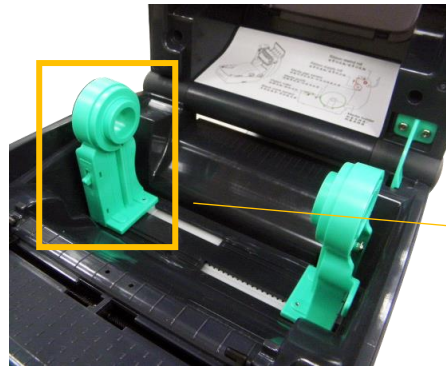
3. Hold the top cover and press the top cover support to disengage the top cover support with lower inner cover, then gently close the top cover.

### 3.6 External Label Roll Mount Installation (Option)

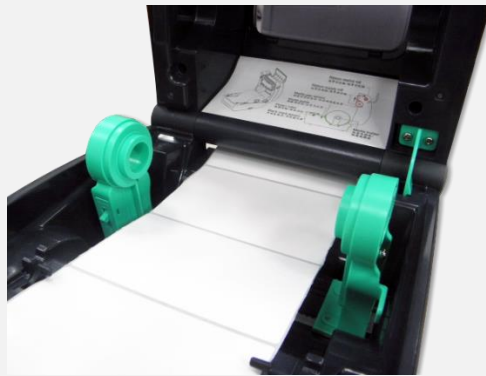
1. Attach an external paper roll mount on the bottom of the printer.



2. Insert a 3" label spindle into a paper roll. And install it on the external paper roll mount.



3. Open the printer's top cover and separate the media holders to fit the media width. Press down the media holder lock switch to fix the media holder.



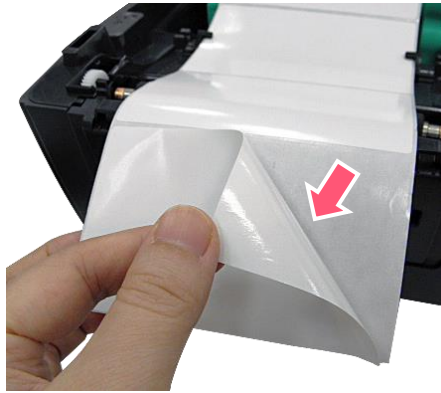
4. Feeds the media through the rear external label entrance chute. And place the paper, printing side face up, through the media sensor and place the label leading edge onto the platen roller. Move the media guides to fit the label width by turning the guide adjuster knob.



5. Disengage the top cover support and close the top cover gently. Use software or LCD menu function to set the media sensor type and calibrate the selected sensor. (refer to ch. 4&5)



### 3.7 Loading Label in Peel-Off Mode (Option)



1. Refer section 3.3 to load the media, then pull the label through the front of the printer and take some labels off only leave the liner.



2. Open the peel-off module cover. Feed the liner into peel-off cover slot.

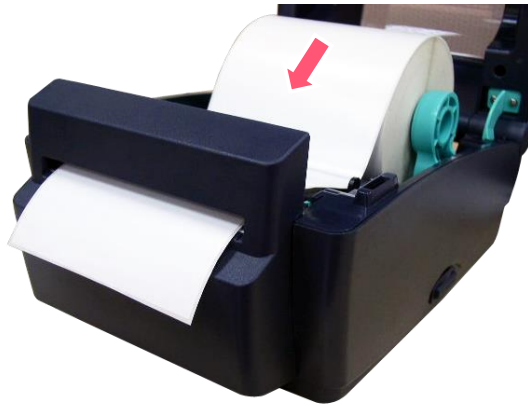


3. Close the peel-off module. Use software or LCD menu function to enable the peel-off mode.



4. Disengage the top cover support to close the top cover. Printer is ready for peel-off mode.




## 3.8 Loading Label in Cutter Mode (Option)



- 1.** Please refer to section 3.3 to load the media. Lead the media through the cutter paper opening.
- 2.** Close the printer cover.
- 3.** Use software or LCD menu function to set the media sensor type and calibrate the selected sensor. (refer to ch. 4 & 5)
- 4.** Use software or LCD menu function to enable the cutter mode.
- 5.** Press the FEED button to test.

## 4. LED and Button Functions

### 4.1 LED Indicator

Color	Meaning
 (Green)	<b>Solid:</b> Power is on and ready to be used. <b>Flash:</b> System is downloading data or printer is paused.
 (Amber)	System is clearing data.
 (Red)	<b>Solid</b> - Printer head open, cutter error. <b>Flash</b> - Printing error, such as paper empty, paper jam, ribbon empty, or memory error etc.

### 4.2 Regular Button Function

**1. Feed labels**

When the printer is ready, press the button to feed one label to the beginning of next label.

**2. Pause the printing job**

When the printer is printing, press the button to pause a printing job. When the printer is paused, the LED will be green blinking. Press the button again to continue the printing job.

## 4.3 Power-on Utilities

**Power-on Utilities** provides the basic functions and can be activated by below procedures:

**Turn off** the power > **Hold** the Feed button > **Open** the power > **Release** the Feed button depending on the color of the LED.

Sequences of the settings:

LED Colors Functions	Amber	Red (5 blinks)	Amber (5 blinks)	Green (5 blinks)	Green / Amber (5 blinks)	Red / Amber (5 blinks)	Solid green
1. Sensor Calibration (Gap / black mark sensor)		Release					
2. Self-Test (And enter dump mode)			Release				
3. Factory Default				Release			
4. Bline Calibration					Release		
5. Gap Calibration						Release	
6. READY (Skip AUTO.BAS)							Release

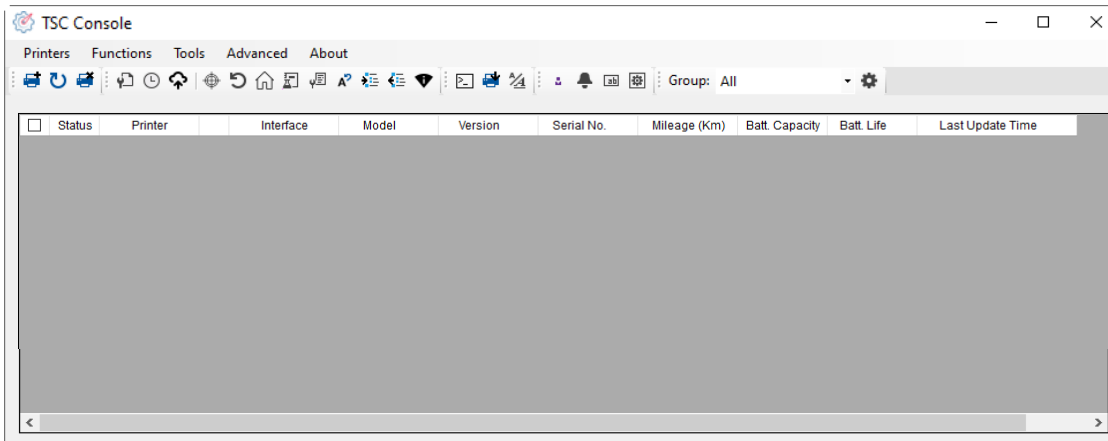
## 5. TSC Console

TSC Console is a management tool combining the Printer Management, Diagnostic Tool, CommTool and Printer Webpage settings, which enables you to adjust printer's settings/status; change printers' settings; download graphics, deploy fonts, graphics, label templates or upgrade the firmware to the group of printers, and send additional commands to printers at the same time.

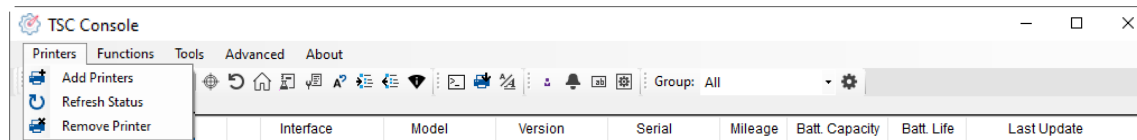
※ **Printer firmware version before A2.12 will only use 9100 Port as command port; Printer firmware after A2.12 will use 6101 Port as command port.**

### 5.1 Start TSC Console

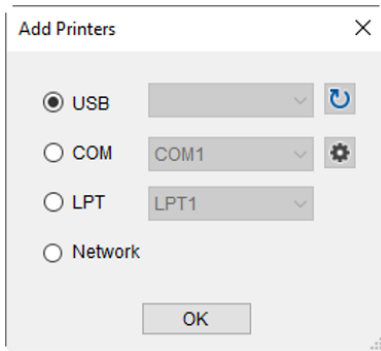
1. Double click TSC Console icon to start the software.



2. Manually add the devices by clicking **Printer > Add Printers**.

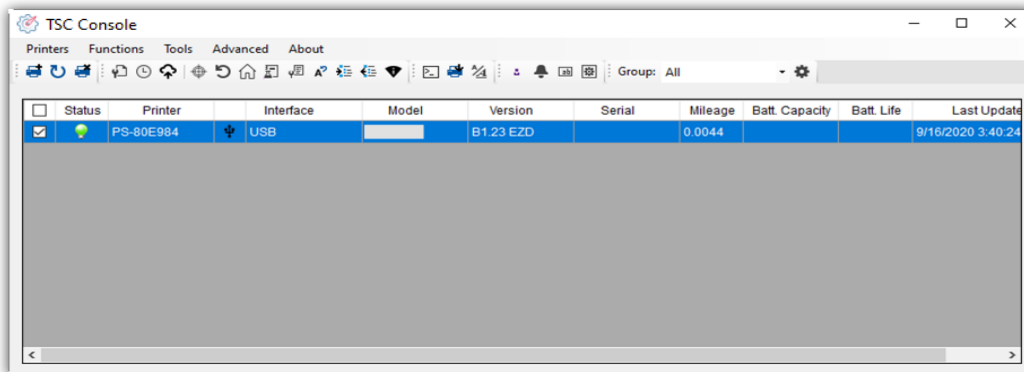


3. Select the current interface of the printer.



4. The printer will be added to **TSC Console**'s interface.

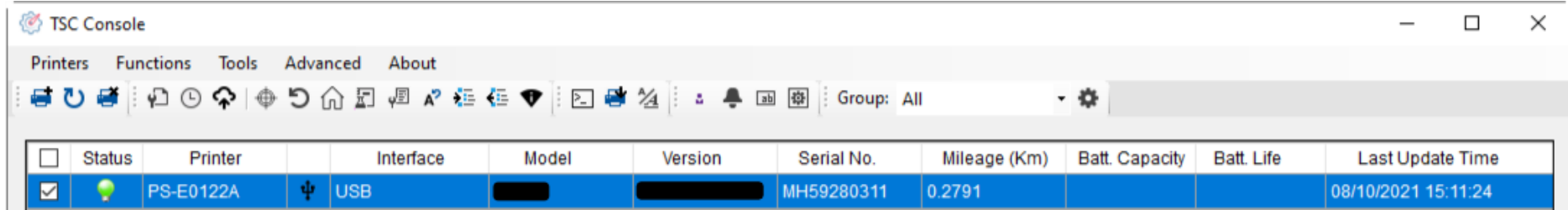
5. Select the printer and set the settings.



- For more information, please refer to **TSC Console User Manual**.

## 5.2 Setup Ethernet Interface

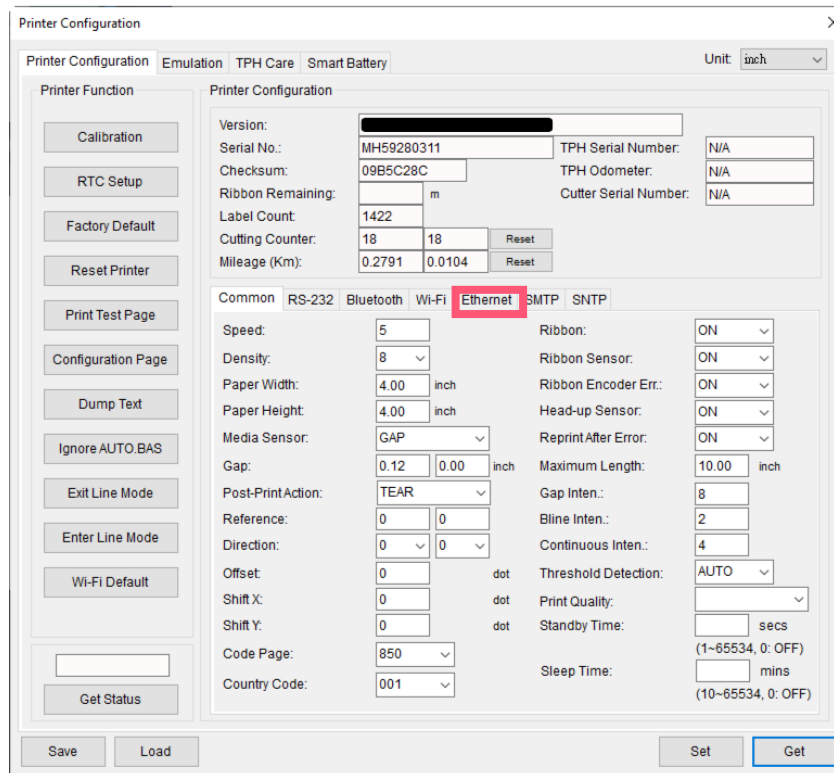
- Use **USB** or **COM** to establish the interface on **TSC Console**.



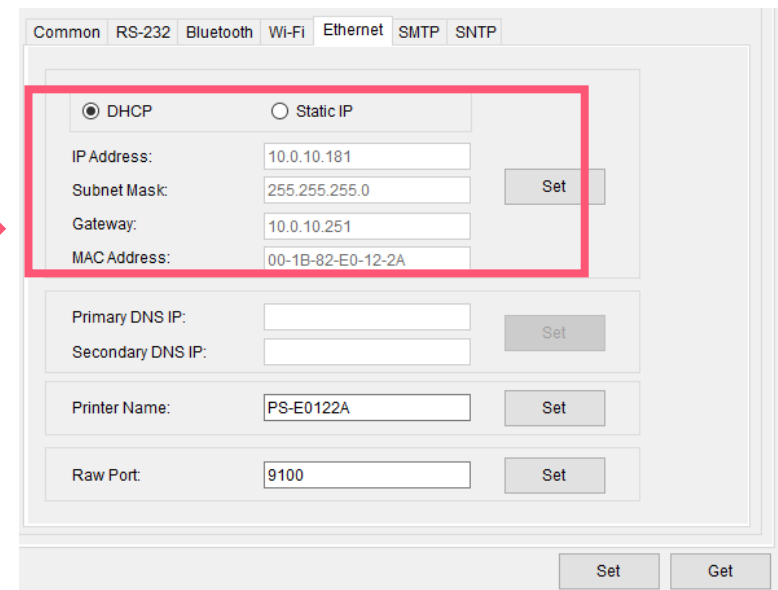
The screenshot shows the TSC Console software interface. At the top, there are menu options: Printers, Functions, Tools, Advanced, and About. Below the menu is a toolbar with various icons. A status bar at the bottom of the toolbar shows 'Group: All'. The main area contains a table with the following columns: Status, Printer, Interface, Model, Version, Serial No., Mileage (Km), Batt. Capacity, Batt. Life, and Last Update Time. The table has one row of data:

Status	Printer	Interface	Model	Version	Serial No.	Mileage (Km)	Batt. Capacity	Batt. Life	Last Update Time
<input checked="" type="checkbox"/>	PS-E0122A	USB			MH59280311	0.2791			08/10/2021 15:11:24

- Double click to enter the **Printer Configuration Page** > Click **Ethernet** tab > Check the **IP Address**.

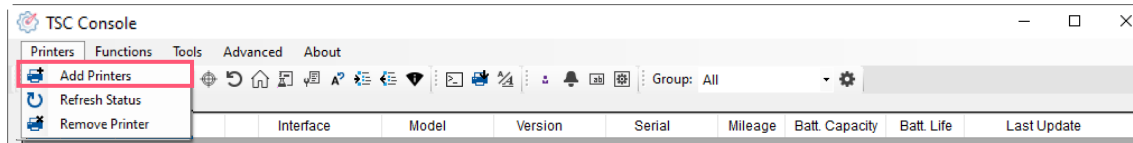


The screenshot shows the 'Printer Configuration' dialog box. The 'Printer Configuration' tab is selected. The 'Ethernet' sub-tab is highlighted with a red box. The 'DHCP' radio button is selected, and the 'Static IP' radio button is unselected. The IP Address field is highlighted with a red box and contains the value '10.0.10.181'. Other fields include Subnet Mask (255.255.255.0), Gateway (10.0.10.251), and MAC Address (00-1B-82-E0-12-2A). The 'Set' button is visible next to the IP Address field.

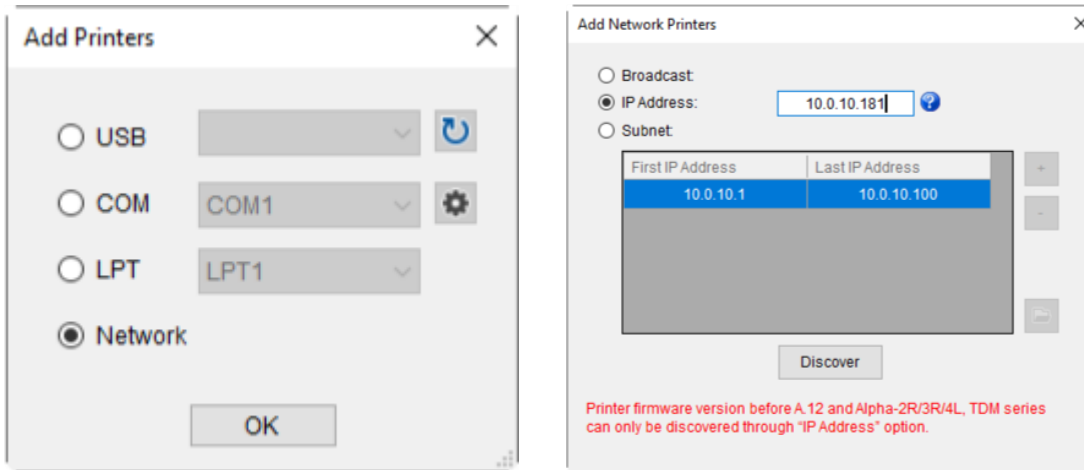


The screenshot shows the 'Ethernet' configuration details. The 'DHCP' radio button is selected, and the 'Static IP' radio button is unselected. The IP Address field is highlighted with a red box and contains the value '10.0.10.181'. Other fields include Subnet Mask (255.255.255.0), Gateway (10.0.10.251), and MAC Address (00-1B-82-E0-12-2A). The 'Set' button is visible next to the IP Address field.

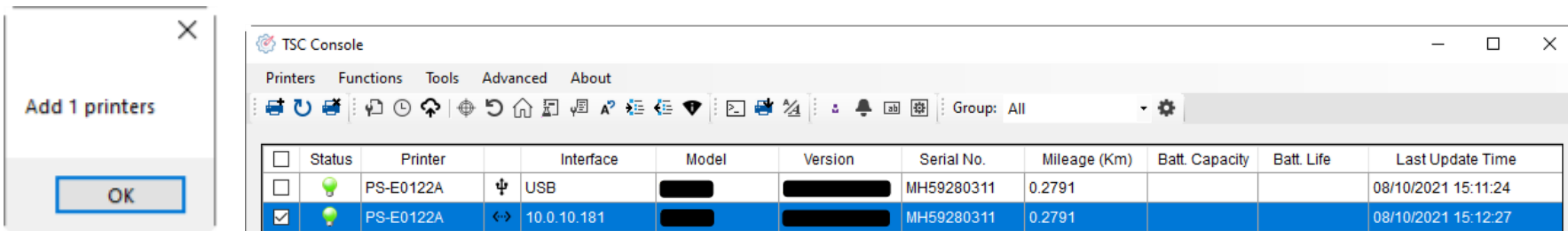
- Return to **TSC Console** main page > Click **Add Printer** on the top left of the window.



- Choose **Network** > Key in the **IP Address** > Click **Discover** to establish the Ethernet interface.



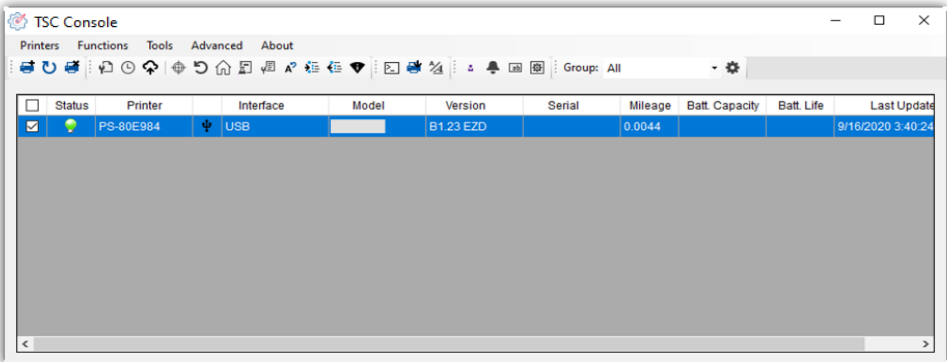
- The notification will pop up > Click **OK** to close the window > The Ethernet interface will be shown on **TSC Console**.



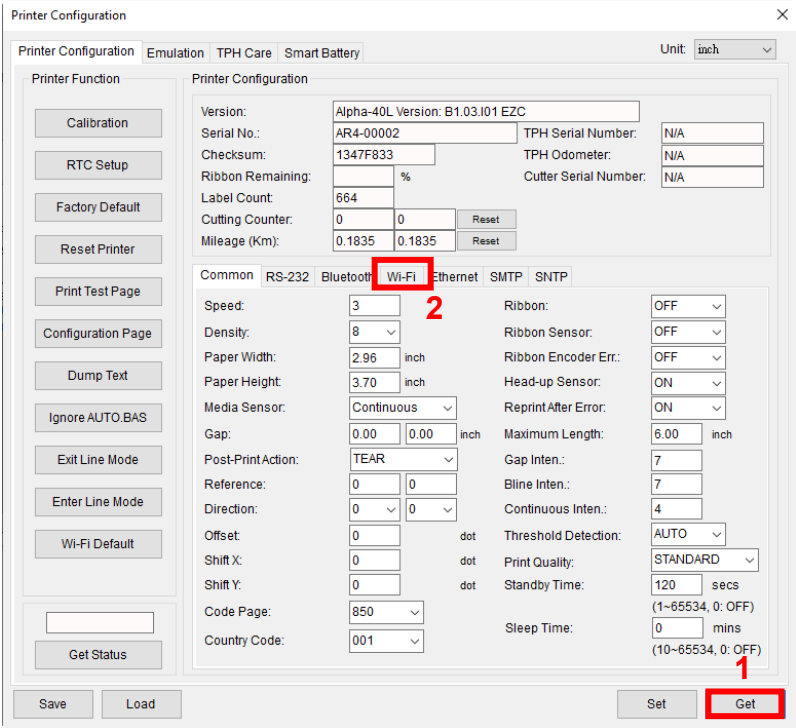


# 5.3 Set WiFi and Add to TSC Console Interface

- Use **USB** or **COM Port** to set up the interface.  
(refer to chp.5.1)
- Double click to enter the printer configuration page.



- Click **Get** to receive printer's information.
- Click **Wi-Fi** to the wi-fi setting page.



### For WPA-Personal

- I. Fill-in the **SSID**.
- II. Select the Encryption option to **WPA-Personal**.
- III. Fill-in the Key.
- IV. Select **DHCP** to **ON**. (For **OFF** option, please fill-in the IP Address, Subnet Mask and Gateway)
- V. After setting, click the **Set** button.

#### Note:

Before setting, the entered field will be shown in yellow for reminding.

On DHCP, user can change the printer name by another model name in "Printer Name" field.

User also can change the raw port in "Raw Port" field.

Common RS-232 Bluetooth Wi-Fi Ethernet SMTP SNTP

Built-in Wi-Fi Module

SSID: SSID\_1

WLAN Encryption: WPA-Personal

Key: ●●●●

DHCP: ON

IP Address: 1

Subnet Mask: 0.0.0.0

Gateway:

Primary DNS IP:

Secondary DNS IP:

Raw Port: 9100

Printer Name: PS-FF153C

MAC Address: 00:1B:82:FF:15:3C

EAP Type:

Username:

Password:

CA Certificate:

Client Certificate:

Private Key:

EAP-FAST PAC:

Wi-Fi Version: 3.7.1.0R6

RSSI: 0

File Name Browse

Set Get

### For WPA-Enterprise

- I. Fill-in the **SSID**.
- II. Select the Encryption option to **WPA2-Enterprise**.
- III. Select DHCP to **ON** (For **OFF** option, please fill-in the IP Address, Subnet Mask and Gateway)
- IV. Select the **EAP Type** option. (For **EAP-TLS** option, please upload the CA and Key for mutual authentication, integrity-protected cipher suite negotiation, and key exchange between two endpoints.)
- V. After setting, click the **Set** button.

#### Note:

Before setting, the entered field will be shown in yellow for reminding.

On DHCP, user can change the printer name by another model name in "Printer Name" field.

User also can change the raw port in "Raw Port" field.

Common RS-232 Bluetooth Wi-Fi Ethernet SMTP SNTP

Built-in Wi-Fi Module

SSID: SSID\_2

WLAN Encryption: WPA-Enterprise

Key: ●●●●

DHCP: ON

IP Address: 1

Subnet Mask: 0.0.0.0

Gateway:

Primary DNS IP:

Secondary DNS IP:

Raw Port: 9100

Printer Name: PS-FF153C

MAC Address: 00:1B:82:FF:15:3C

EAP Type: 2

Username:

Password:

CA Certificate:

Client Certificate:

Private Key:

EAP-FAST PAC:

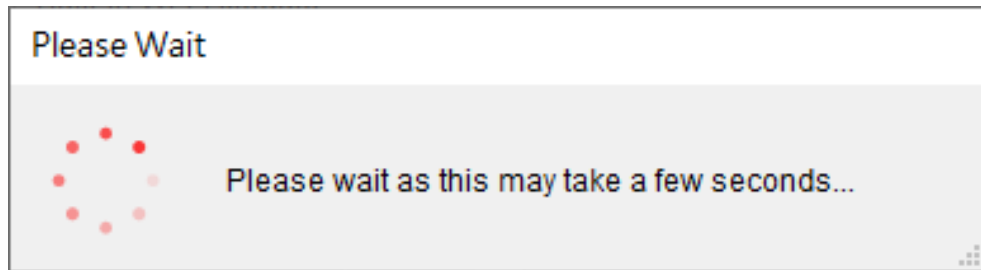
Wi-Fi Version: 3.7.1.0R6

RSSI: 0

File Name Browse

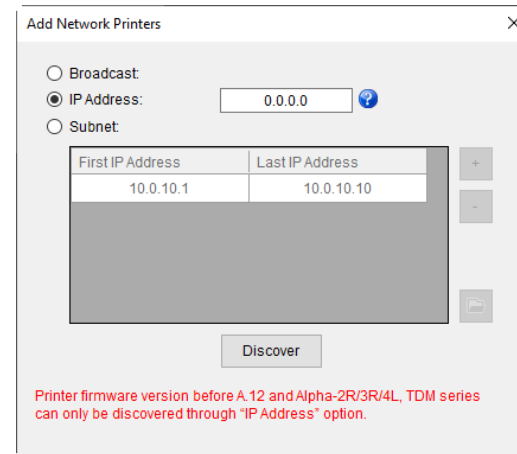
Set Get

- After clicking **Set** button, it'll pop-up the window tip as below shown.



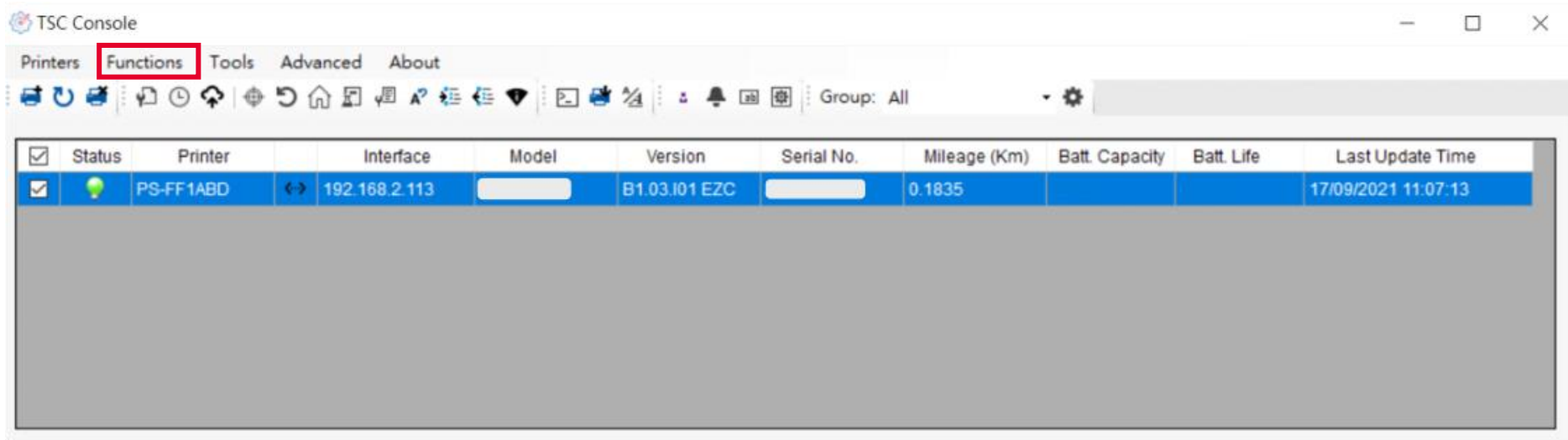
- IP address will be shown in the "IP address" field. IP address should be shown within about 5~15 seconds after printer turn on. If not, please refer to steps below to initialize the printer Wi-Fi module settings then to setup it again.

- Remove the cable between the computer and the printer.
- Go to main page, click **Add Printer** to add the printer via **Network**.
- Select the printer and enter the setting page by double clicking the printer.
- Click the **Print Test Page** button to print the test page via Wi-Fi interface.

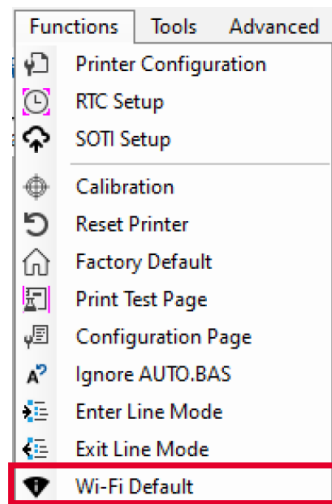


## 5.4 Initialize the Printer WiFi Setting

1. Return to the main page of TSC Console.

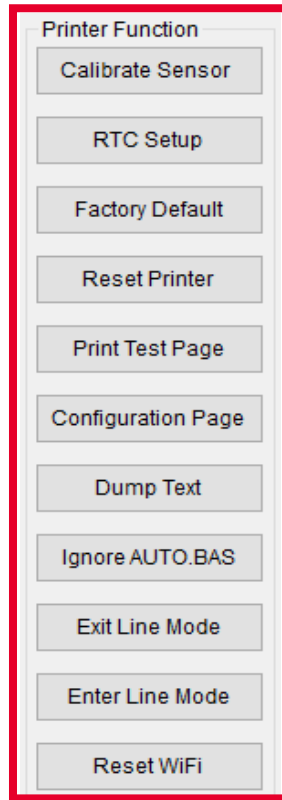


2. Click **Functions** to expand the page.
3. Click **Wi-Fi Default** to initialize the printer Wi-Fi module setting to factory default setting.



## 5.5 Printer Function

Printer Function could be found in **Printer Configuration**. “Printer Function” will be shown on the left side of the window.



Functions	Description
<b>Calibrate Sensor</b>	Detect media types and the size of the label
<b>RTC Setup</b>	Synchronize printer with Real Time Clock on PC
<b>Factory Default</b>	Initialize the printer to default settings
<b>Reset Printer</b>	Reboot printer
<b>Print Test Page</b>	Print test page according to the specified label size and sensor type.
<b>Configuration Page</b>	Print printer configurations
<b>Dump Text</b>	Activate the printer to dump mode
<b>Ignore AUTO.BAS</b>	Ignore AUTO.BAS file when printer boot up.
<b>Exit Line Mode</b>	Exit the line mode to page mode
<b>Enter Line Mode</b>	Leave page mode and enter line mode
<b>Reset WiFi</b>	Restore the WiFi settings to defaults.

## 5.6 Setting Post-Print Action

When the printer is equipped with other option kits, ex: cutter, peeler, rewinder, please select the mode after finishing the calibration.

Follow below procedure to set the post action for the printing:

Refer Ch. 5.1 to Connect the printer with TSC Console > Double click the printer > The Printer Configuration Page will pop up > Click Get to load information > Go to Common Tab > Find Post-Print Action > Select the mode depends on users' application > Click Set.

Printer Configuration

Printer Configuration Emulation TPH Care Smart Battery Unit: mm

Printer Function

- Calibration
- RTC Setup
- Factory Default
- Reset Printer
- Print Test Page
- Configuration Page
- Dump Text
- Ignore AUTO.BAS
- Exit Line Mode
- Enter Line Mode
- Wi-Fi Default
- Get Status

Printer Configuration

Version: [ ]  
Serial No.: [ ] TPH Serial Number: N/A  
Checksum: 1344B9B1 TPH Odometer: N/A  
Ribbon Remaining: [ ] % Cutter Serial Number: N/A  
Label Count: 553  
Cutting Counter: 0 0 Reset  
Mileage (Km): 0.0913 0.0913 Reset

Common RS-232 Bluetooth Wi-Fi Ethernet SMTP SNTP

Speed: 3 Ribbon: OFF  
Density: 8 Ribbon Sensor: OFF  
Paper Width: 104.00 mm Ribbon Encoder Err.: OFF  
Paper Height: 74.05 mm Head-up Sensor: ON  
Media Sensor: Black Mark Reprint After Error: ON  
Gap: 1.99 0.00 mm Maximum Length: 152.25 mm  
Post-Print Action: [ ] Gap Inten.: 7  
Reference: OFF Bline Inten.: 7  
Direction: TEAR Continuous Inten.: 4  
Offset: PEEL Threshold Detection: AUTO  
Shift X: CUTTER Print Quality: STANDARD  
Shift Y: REWIND Standby Time: 120 secs  
Code Page: 850 Sleep Time: 0 mins  
Country Code: 001 (1~65534, 0: OFF)  
(10~65534, 0: OFF)

Save Load

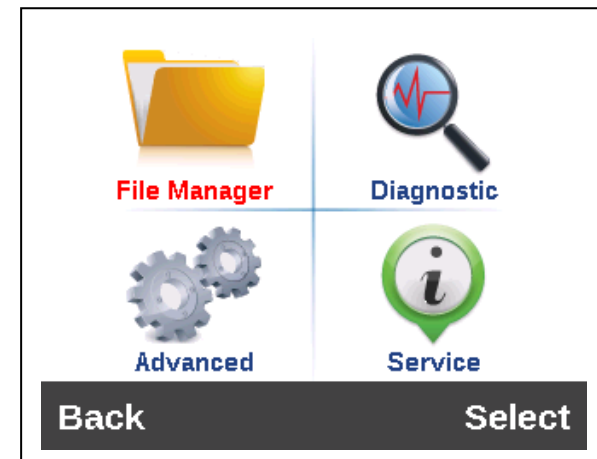
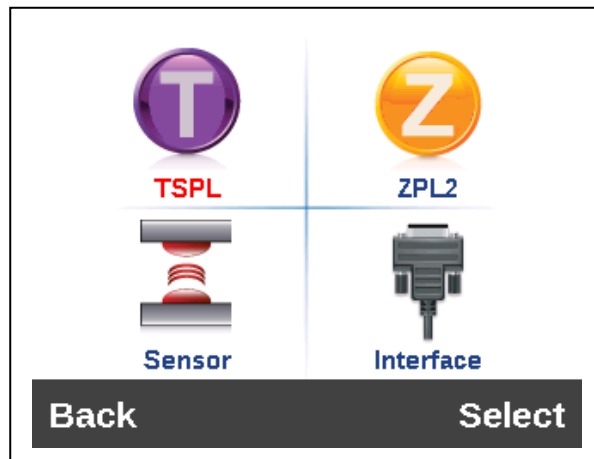
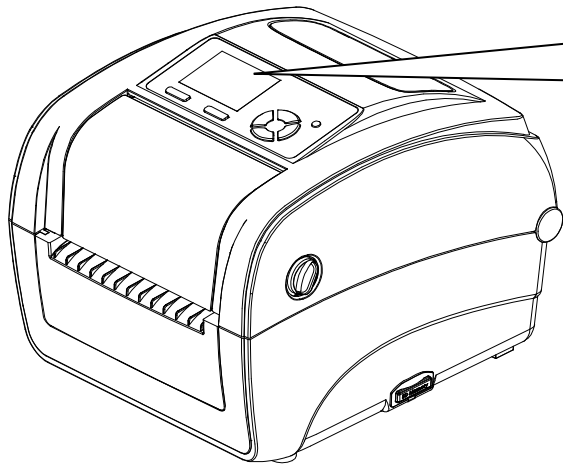
Set Get

# 6. LCE Menu Function

## 6.1 Enter the Menu

Press the “Menu” button to enter the main menu. Use the “Cross” button to select the item on main menu. The selected item will turn red. Press the “Feed” button to enter the setting list.

**Note: This LCD function is optional for TC210 and TC310 series.**



## 6.2 Main Menu Overview

There are 8 categories on the menu. Users can easily set the settings of the printer without connecting the computer. Please refer to following sections for more details.

**TSPL:** To set up the printer settings for TSPL

**ZPL2:** To set up the printer settings ZPL2.

**Sensor:** To calibrate the selected media sensor.

**Interface:** To set the printer interface settings.

**File Manager:** To check and manage printer's memory storage.

**Diagnostic:** To check printer and help users to troubleshoot the problems.

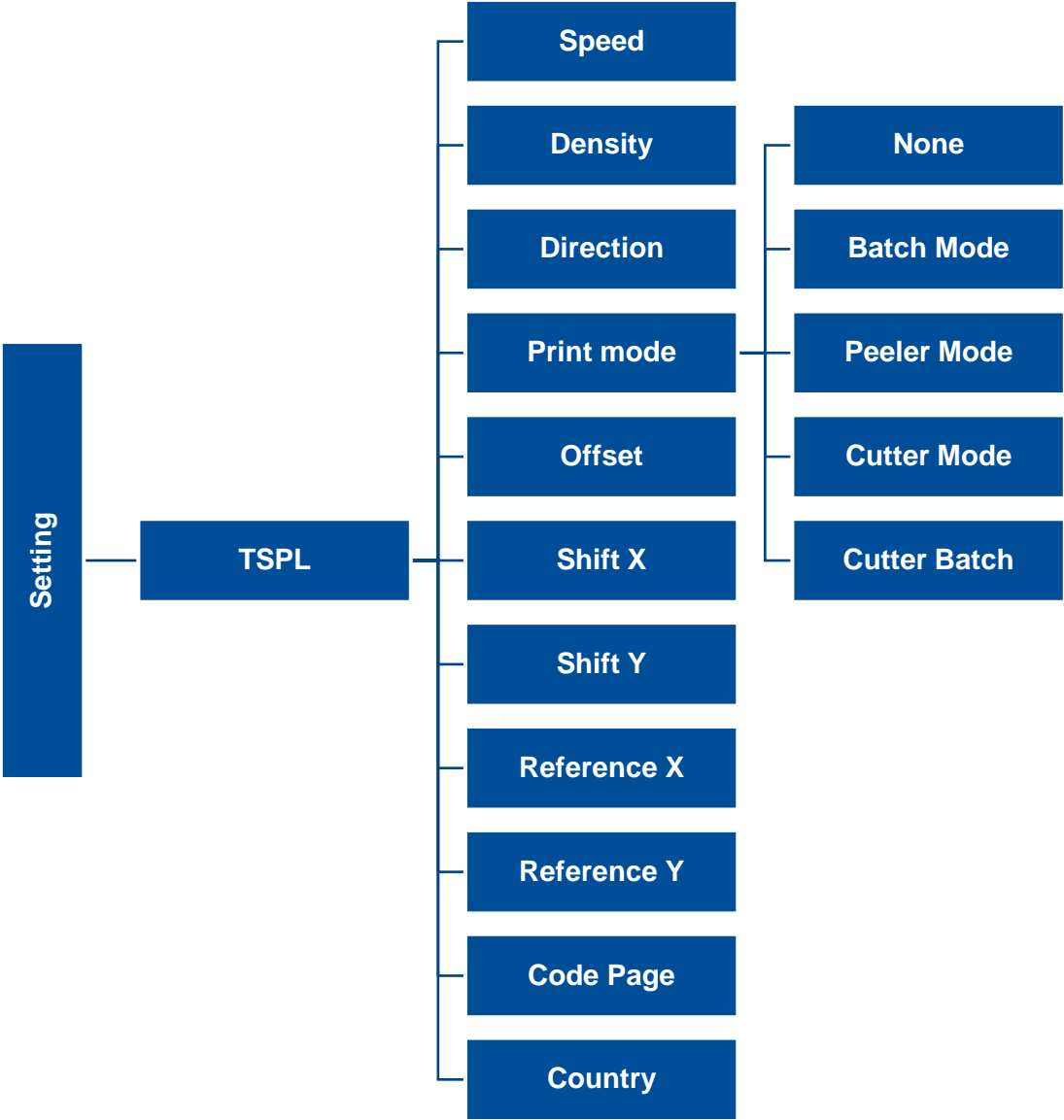
**Advanced:** To set LCD, initialization, cutter type...etc.

**Service:** To restore printer settings to defaults and checking information for printer.



# 6.3 TSPL

TSPL category can set up the printer settings for TSPL.

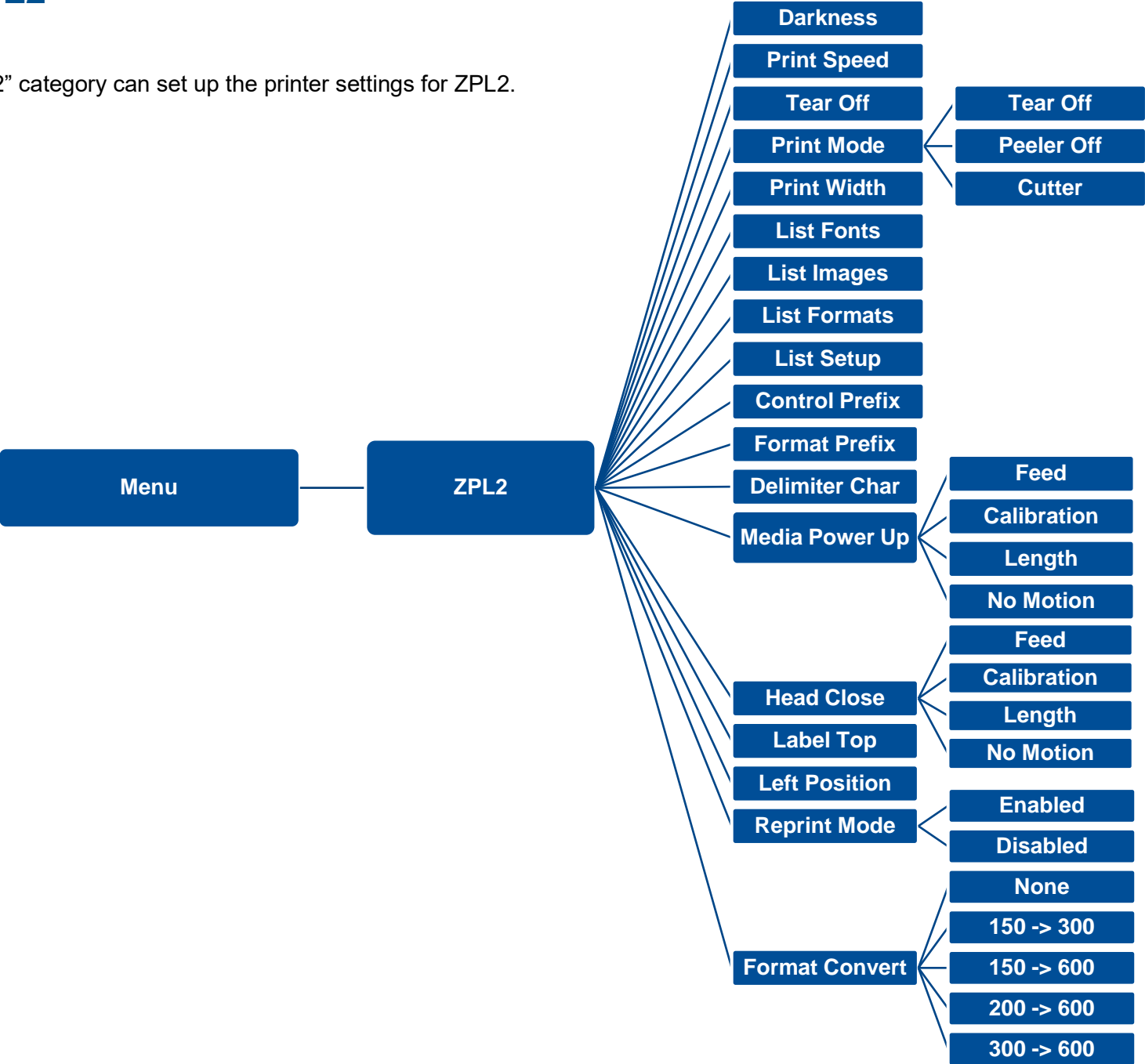


Item	Description	Default
<b>Speed</b>	Set the print speed.	N/A
<b>Density</b>	Set the printing darkness.	8
<b>Direction</b>	Set the printout direction. Setting Value: 0 and 1. Direction 0: <input type="text" value="Direction"/> Direction 1: <input type="text" value="Direction"/>	0
<b>Print mode</b>	Set the print mode. There are 5 modes in total: <b>None:</b> Next label top of form is aligned to the print head burn line location. (Tear Off Mode) <b>Batch Mode:</b> Once finishing the printing process, label will be fed to the tear plate location. <b>Peeler Mode:</b> Enable the label peel off mode. <b>Cutter Mode:</b> Enable the label cutter mode. <b>Cutter Batch:</b> Cut the label once at the end of the printing job.	<b>Batch Mode</b>
<b>Offset</b>	Adjust media stop location. Available value setting range: -999 dots to 999 dots.	0 dot
<b>Shift X</b>	Adjust print position. Available value setting range: -999 dots to 999 dots.	0 dot
<b>Shift Y</b>		0 dot
<b>Reference X</b>	Set the origin of printer coordinate system horizontally and vertically. Available setting range: 0 dot to 999 dots.	0 dot
<b>Reference Y</b>		0 dot
<b>Code page</b>	Set the code page of international character set.	850
<b>Country</b>	Set the country code. Available setting value range: 1 to 358.	001


Note: If printing from enclosed software/driver, the software/driver will send out the commands, which will overwrite the settings set from the panel.

# 6.4 ZPL2

This "ZPL2" category can set up the printer settings for ZPL2.



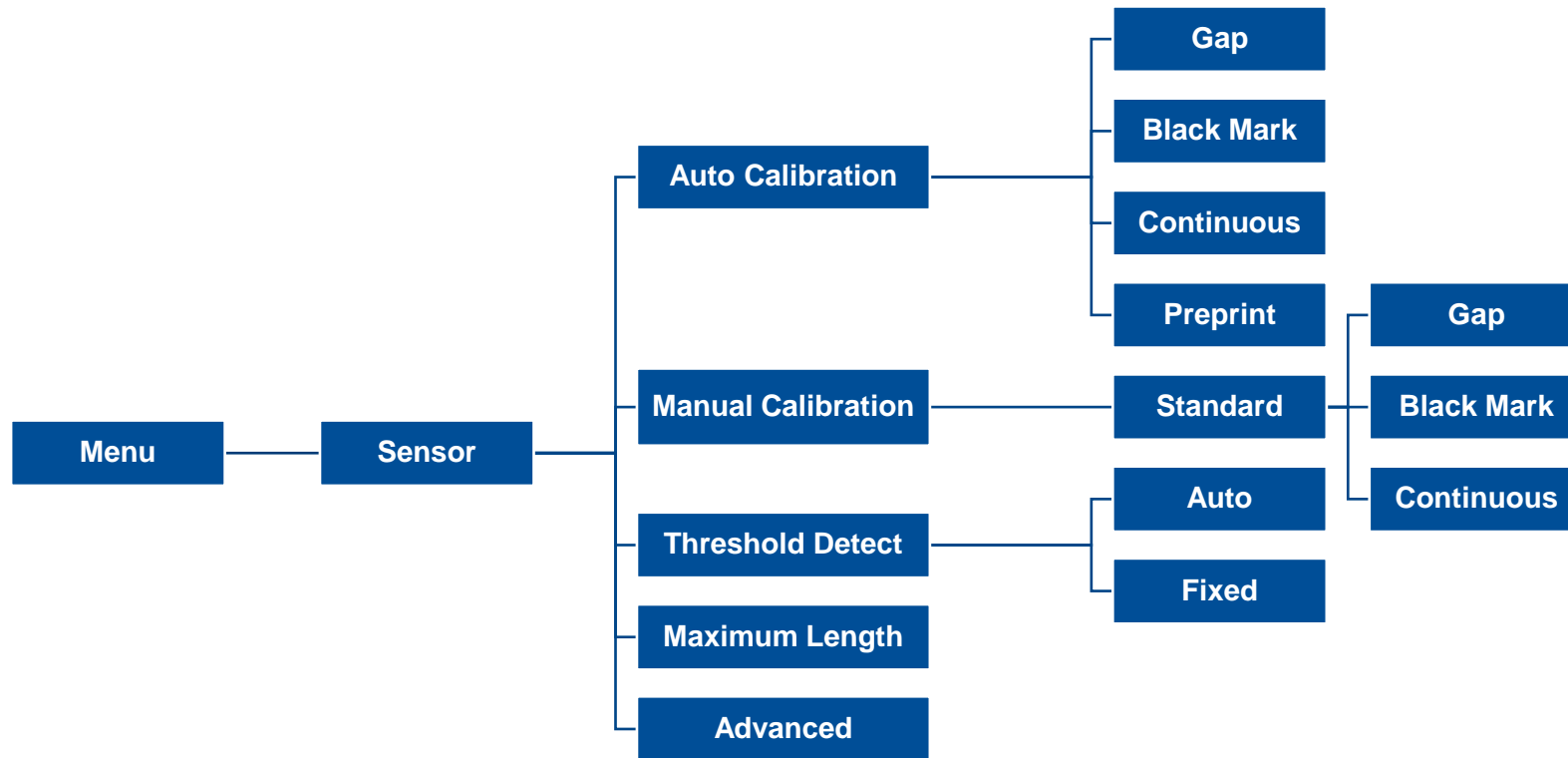
Item	Description	Default
Density	Set the printing darkness. Available setting range: 0 to 30.	16 6 (203dpi)
Print Speed	Set the print speed.	4 (300dpi) 3 (600dpi)
Tear Off	Adjust media stop location. Available setting value range: -120~120 dots.	0 dot
Print mode	<p>Set the print mode. There are 4 modes:</p> <p><b>Tear Off:</b> Next label top of form is aligned to the print head heating line location.</p> <p><b>Peeler Off:</b> Enable the label peel off mode.</p> <p><b>Cutter:</b> Enable the label cutter mode</p>	Tear Off
Print Width	Set the print width. Available setting range: 2 ~ 999 dots.	812
List Fonts	Print the current fonts list from the memory devices to the label.	N/A
List Images	Print current printer available images list stored at the memory device to the label.	N/A
List Formats	Print current printer available formats list from the memory devices to the label.	N/A
List Setup	Print current printer configuration to the label.	N/A
Control Prefix	Set control prefix character.	N/A
Format Prefix	Set format prefix character.	N/A
Delimiter Char	Set delimiter character.	N/A

<b>Media Power Up</b>	Set the action of the media when turning on the printer.	
	<b>Feed:</b> Printer will advance one label.	
	<b>Calibration:</b> Printer will make calibration.	<b>No Motion</b>
	<b>Length:</b> Printer determine length and feed label.	
	<b>No Motion:</b> Printer will not move media.	
<b>Head Close</b>	Set the action of the media when closing the print head.	
	<b>Feed:</b> Printer will advance one label.	
	<b>Calibration:</b> Printer will make calibration.	<b>No Motion</b>
	<b>Length:</b> Printer determine length and feed label.	
	<b>No Motion:</b> Printer will not move media.	
<b>Label Top</b>	Adjust print position vertically on the label. Value range: -120 to +120 dots.	<b>0</b>
<b>Left Position</b>	Adjust print position horizontally on the label. Value range: -9999 to +9999 dots.	<b>0</b>
<b>Reprint Mode</b>	Reprint the last label by pressing  button on printer's control panel.	<b>Disabled</b>
<b>Format Convert</b>	Select the bitmap scaling factor. The first number is the original dots per inch (dpi) value; the second the dpi which you would like to scale.	<b>None</b>

**Note: printing from other software/drive will overwrite the settings set from the panel.**

## 6.5 Sensor

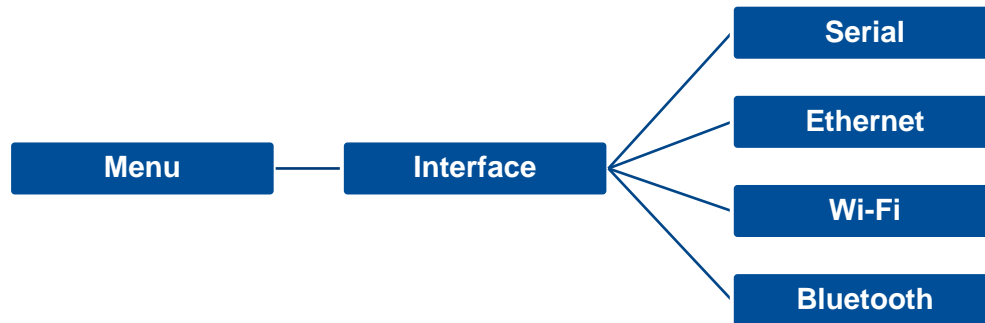
This option is used to calibrate the selected sensor. We recommend calibrate the sensor before printing when changing the media.



Item	Description	Default
<b>Auto Calibration</b>	Set the media sensor type and calibrate the selected sensor automatically.	N/A
<b>Manual Calibration</b>	In case Auto Calibration does not work, please use “Manual” function to set the paper length and gap/bline size to complete the calibration setting.	N/A
<b>Threshold Detect</b>	Set sensor sensitivity in fixed or auto.	Auto
<b>Maximum Length</b>	Set the maximum length for label calibration.	254 mm
<b>Advanced</b>	Set the minimum paper length and maximum gap/bline length for auto-calibration.	N/A

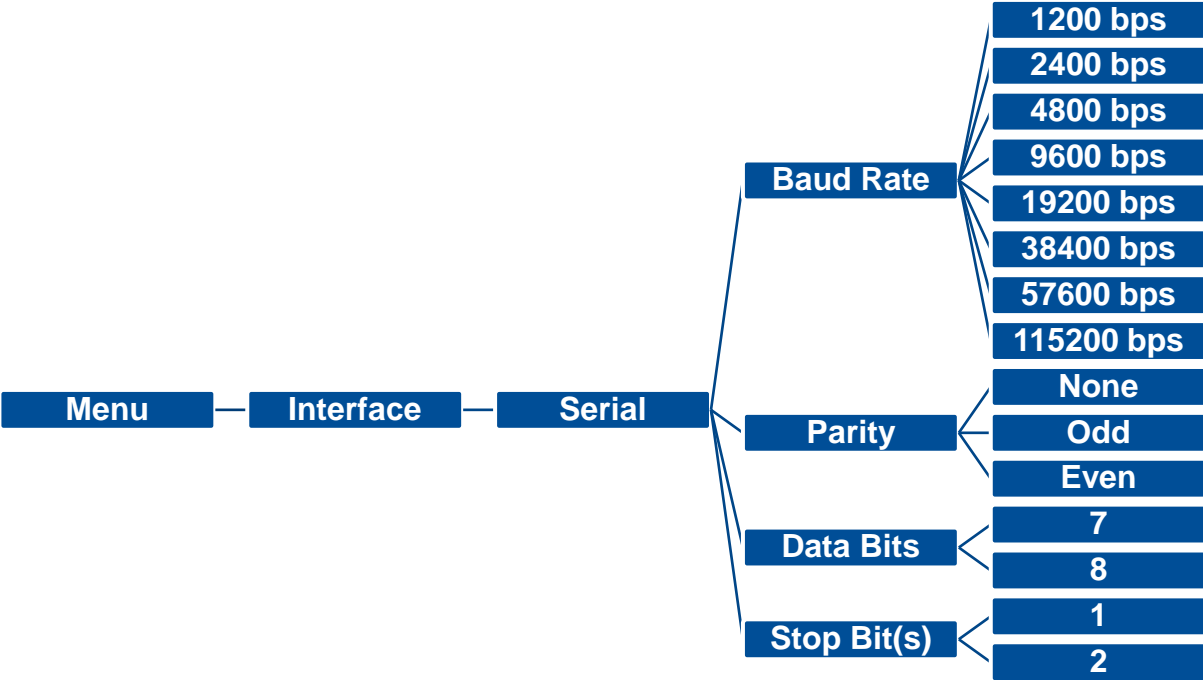
## 6.6 Interface

**Interface** can set the printer interface settings.



### 6.6.1 Serial Comm

Serial comm can set the printer RS-232 settings.

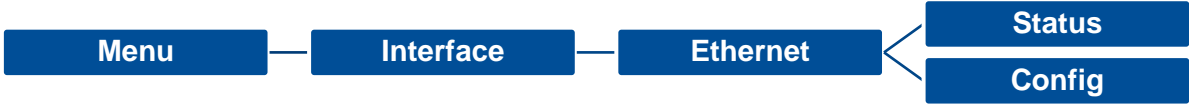


Item	Description	Default
Baud Rate	Set the RS-232 baud rate.	9600
Parity	Set the RS-232 parity.	None
Data Bits	Set the RS-232 Data Bits.	8
Stop Bit(s)	Set RS-232 Stop Bits.	1



### 6.6.2 Ethernet

**Ethernet** configures internal Ethernet configuration and checks the printer's Ethernet module status, and reset the Ethernet module.



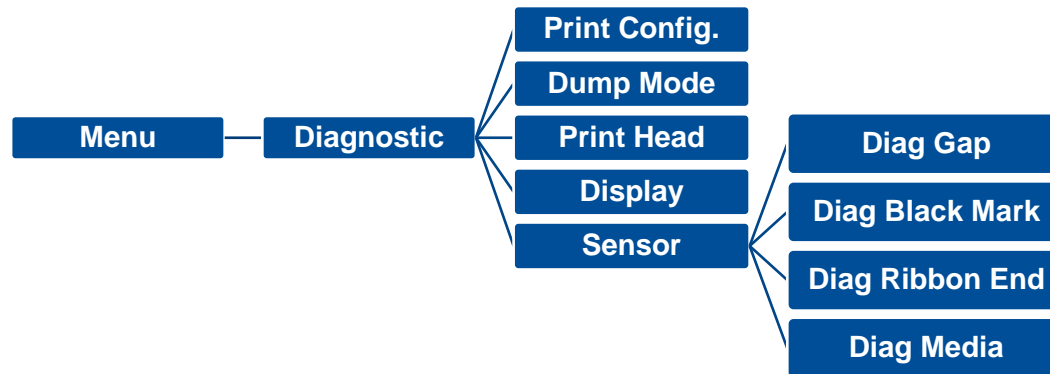
Item	Description	Default
Status	Check the Ethernet IP address and MAC setting status.	N/A
Config.	<b>DHCP:</b> On or OFF the DHCP (Dynamic Host Configuration Protocol) network protocol. <b>Static IP:</b> Use this menu to set the printer's IP address, subnet mask and gateway.	DHCP

## 6.7 File Manager

**File Manager** is used to check the printer available memory, show the files list, delete the files or run the files that saved in the printer DRAM/Flash/Card memory.



## 6.8 Diagnostic



```

DOWNLOA 0D 0A 44 4F 57 4E 4C 4F 4I
D „TEST2. 44 20 22 54 45 53 54 32 2E
DAT“,5,CL 44 41 54 22 2C 35 2C 43 4C
S DOWNLO 53 0D 0A 44 4F 57 4E 4C 4F
AD F,“TES 41 44 20 46 2C 22 54 45 53
T4.DAT“,5 54 34 2E 44 41 54 22 2C 35
,CLS DOW 2C 43 4C 53 0D 0A 44 4F 57
NLOAD „TE 4E 4C 4F 41 44 20 22 54 45
ST2.DAT“, 53 54 32 2E 44 41 54 22 2C
5,CLS DO 35 2C 43 4C 53 0D 0A 44 4F
WNLOAD F, 57 4E 4C 4F 41 44 20 46 2C
„TEST4.DA 22 54 45 53 54 34 2E 44 41
T“,5,CLS 54 22 2C 35 2C 43 4C 53 0D
DOWNLOAD 0A 44 4F 57 4E 4C 4F 41 44
“TEST2.D 20 22 54 45 53 54 32 2E 44
AT“,5,CLS 41 54 22 2C 35 2C 43 4C 53
DOWNLOA 0D 0A 44 4F 57 4E 4C 4F 4I
D F,“TEST 44 20 46 2C 22 54 45 53 54
4.DAT“,5, 34 2E 44 41 54 22 2C 35 2C
CLS 43 4C 53 0D 0A
  
```

### Item

### Description

#### Print Config.

Print current printer configuration to the label. The configuration printout contains print head test pattern, which is useful for checking the dot damage on the print head heater.

#### Dump Mode

Captures the data from the communications port and prints out the data received by printer. In the dump mode, all characters will be printed in 2 columns. The characters on the left are received from the system and the data on the right are the hexadecimal values corresponding to the characters. It allows users or engineers to verify and debug the program.

**Dump mode requires 4" wide paper width.**

#### Print Head

Check print head's temperature and bad dots.

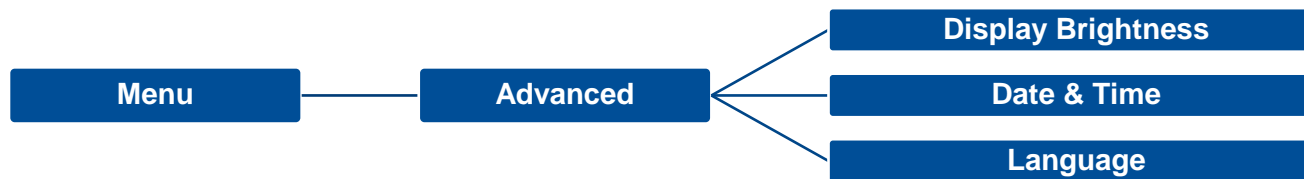
#### Display

Check LCD's color state.

#### Sensor

Check sensors intensity and reading state.

## 6.9 Advanced



Item	Description
<b>Display Brightness</b>	This item is used to setup the brightness for display.
<b>Date &amp; Time</b>	This item is used to setup the date and time on display.
<b>Language</b>	This item is used to setup the language on display.

# 6.10 Service

This feature is used to restore printer settings to defaults and checking information for printer.



Item	Description
<b>Initialization</b>	This feature is used to restore printer settings to defaults.
<b>Printer Information</b>	This feature is used to check printer serial number, printed mileage(m), labels(pcs.) and cutting counter.
<b>Contact us</b>	This feature is used to check the contact information for tech support service

# 7. Troubleshooting

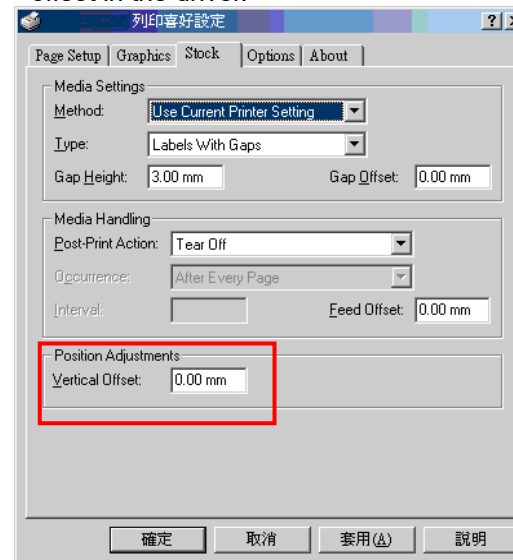
Problem	Possible Cause	Recovery Procedure
<p><b>Power indicator does not illuminate</b></p>	<ul style="list-style-type: none"> <li>* The power cord is not properly connected.</li> </ul>	<ul style="list-style-type: none"> <li>* Plug the power cord in printer and outlet.</li> <li>* Switch the printer on.</li> </ul>
<p><b>TSC Console shows “Head Open”.</b> - The LCD shows “Carriage Open”.</p>	<ul style="list-style-type: none"> <li>* The printer head is open.</li> </ul>	<ul style="list-style-type: none"> <li>* Please close the print carriages.</li> </ul>
<p><b>TSC Console shows “Ribbon Encoder Err.”</b> - The LCD shows “No Ribbon”.</p>	<ul style="list-style-type: none"> <li>* Running out of ribbon.</li> <li>* The ribbon is installed incorrectly.</li> </ul>	<ul style="list-style-type: none"> <li>* Supply a new ribbon roll.</li> <li>* Please refer to the steps on section 3.3 to re-install the ribbon.</li> </ul>
<p><b>TSC Console shows “Out of Paper”.</b> - The LCD shows “No Paper”</p>	<ul style="list-style-type: none"> <li>* Running out of label.</li> <li>* The label is installed incorrectly.</li> <li>* Gap/black mark sensor is not calibrated.</li> </ul>	<ul style="list-style-type: none"> <li>* Supply a new label roll.</li> <li>* Please refer to the steps on section 3.4 to reinstall the label roll.</li> <li>* Calibrate the gap/black mark sensor.</li> </ul>
<p><b>TSC Console shows “Paper Jam”.</b> - The LCD shows “Paper Jam”</p>	<ul style="list-style-type: none"> <li>* Gap/black mark sensor is not set properly.</li> <li>* Make sure label size is set properly.</li> <li>* Labels may be stuck inside the printer mechanism.</li> </ul>	<ul style="list-style-type: none"> <li>* Calibrate the media sensor.</li> <li>* Set media size correctly.</li> <li>* Remove the stuck label inside the printer mechanism.</li> </ul>
<p>- The LCD shows “Take Label”.</p>	<ul style="list-style-type: none"> <li>* Peel-off function is enabled.</li> </ul>	<ul style="list-style-type: none"> <li>* If the peel-off module is installed, please remove the label.</li> <li>* If there is no peel-off module in front of the printer, please switch off the printer and install it.</li> <li>* Check if the connector is plugging correctly.</li> </ul>
<p><b>Not Printing</b></p>	<ul style="list-style-type: none"> <li>* Check if interface cable is well connected to the interface connector.</li> <li>* Check if wireless or Bluetooth device is well connected between host and printer.</li> <li>* The port specified in the Windows driver is not correct.</li> </ul>	<ul style="list-style-type: none"> <li>* Re-connect cable to interface or change a new cable.</li> <li>* If using serial cable,               <ul style="list-style-type: none"> <li>- Please replace the cable with pin to pin connected.</li> <li>- Check the baud rate setting. The default baud rate setting for printer is 9600, n, 8, 1.</li> </ul> </li> <li>* If using the Ethernet cable,               <ul style="list-style-type: none"> <li>- Check if the Ethernet RJ-45 connector green LED is lit on.</li> <li>- Check if the Ethernet RJ-45 connector amber LED is blinking.</li> <li>- Check if the printer gets the IP address when using DHCP mode.</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>- Check if the IP address is correct when using the static IP address.</li> <li>- Wait a few seconds let the printer get the communication with the server then check the IP address setting again.</li> <li>* Please reset the wireless device setting.</li> <li>* Select the correct printer port in the driver.</li> <li>* Print head's harness connector is not well connected with printhead. Turn off the printer and plug the connector again.</li> <li>* Check your program if there is a command PRINT at the end of the file and there must have CRLF at the end of each command line.</li> <li>* Follow the instructions in loading the media and ribbon.</li> </ul>
<b>No print on the label</b>	<ul style="list-style-type: none"> <li>* Label or ribbon is loaded not correctly.</li> <li>* Use wrong type paper or ribbon</li> </ul>	<ul style="list-style-type: none"> <li>* Ribbon and media are not compatible.</li> <li>* Verify the ribbon-inked side.</li> <li>* The print density setting is incorrect.</li> <li>* Clean the print head.</li> </ul>
<b>Poor Print Quality</b>	<ul style="list-style-type: none"> <li>* Ribbon/ media is loaded incorrectly</li> <li>* Dust or adhesive accumulation on the print head.</li> <li>* Print density is not set properly.</li> <li>* Print head element is damaged.</li> <li>* Ribbon and media are incompatible.</li> <li>* The print head pressure is not set properly.</li> </ul>	<ul style="list-style-type: none"> <li>* Reload the supply.</li> <li>* Clean the print head.</li> <li>* Clean the platen roller.</li> <li>* Adjust the print density and print speed.</li> <li>* Run printer self-test and check the print head test pattern if there is dot missing in the pattern.</li> <li>* Change proper ribbon or proper label media.</li> <li>* The release lever does not latch the print head properly.</li> </ul>
<b>Cutter is not working</b>	<ul style="list-style-type: none"> <li>* The connector is loose.</li> <li>* Cutter jam.</li> <li>* Cutter PCB is damaged.</li> </ul>	<ul style="list-style-type: none"> <li>* Plug in the connect cable correctly.</li> <li>* Remove the label.</li> <li>* Make sure the thickness of label is less than 0.19 mm.</li> <li>* Replace a cutter driver IC board.</li> </ul>
<b>Can't downloading the file to memory (FLASH / DRAM/CARD)</b>	<ul style="list-style-type: none"> <li>* The space of memory is full.</li> </ul>	<ul style="list-style-type: none"> <li>* Delete unused files in the memory.</li> </ul>
<b>SD card is unable to use</b>	<ul style="list-style-type: none"> <li>* SD card is damaged.</li> <li>* SD card doesn't insert correctly.</li> </ul>	<ul style="list-style-type: none"> <li>* Use the supported capacity SD card. Please refer to section 2.2.1</li> <li>* Insert the SD card again.</li> </ul>
<b>Missing printing on the left or right side of label</b>	<ul style="list-style-type: none"> <li>* Wrong label size setup.</li> </ul>	<ul style="list-style-type: none"> <li>* Set the correct label size.</li> </ul>
<b>Gray line on the blank label</b>	<ul style="list-style-type: none"> <li>* The print head is dirty.</li> <li>* The platen roller is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>* Clean the print head.</li> <li>* Clean the platen roller.</li> </ul>

<b>Irregular printing</b>	<ul style="list-style-type: none"> <li>* The printer is in Hex Dump mode.</li> <li>* The RS-232 setting is incorrect.</li> </ul>	<ul style="list-style-type: none"> <li>* Turn off and on the printer to skip the dump mode.</li> <li>* Re-set the Rs-232 setting.</li> </ul>
<b>Label feeding is not stable (skew) when printing</b>	<ul style="list-style-type: none"> <li>* The media guides do not touch the edge of the media.</li> </ul>	<ul style="list-style-type: none"> <li>* If the label is moving to the right side, please move the label guide to left.</li> <li>* If the label is moving to the left side, please move the label guide to right.</li> </ul>
<b>Skip labels when printing</b>	<ul style="list-style-type: none"> <li>* Label size is not specified properly.</li> <li>* Sensor sensitivity is not set properly.</li> <li>* The media sensor is covered with dust.</li> </ul>	<ul style="list-style-type: none"> <li>* Check if label size is setup correctly.</li> <li>* Calibrate the sensor by Auto Gap or Manual Gap options.</li> <li>* Clear the GAP/Black mark sensor by blower.</li> </ul>
<b>Wrinkle Problem</b>	<ul style="list-style-type: none"> <li>* Printhead pressure is incorrect.</li> <li>* Ribbon installation is incorrect.</li> <li>* Media installation is incorrect.</li> <li>* Print density is incorrect.</li> <li>* Media feeding is incorrect.</li> </ul>	<ul style="list-style-type: none"> <li>* Please set the suitable density to have good print quality.</li> <li>* Make sure the label guides touch the edge of the media guide.</li> </ul>
<b>RTC time is incorrect when reboot the printer</b>	<ul style="list-style-type: none"> <li>* The battery has run down.</li> </ul>	<ul style="list-style-type: none"> <li>* Check if there is a battery on the main board.</li> </ul>

**The printing position of small label is incorrect**

- \* Media sensor sensitivity is not set properly.
- \* Label size is incorrect.
- \* The parameter Shift Y is incorrect.
- \* The vertical offset setting in the driver is incorrect.





## 8. Maintenance

This session presents the clean tools and methods to maintain the printer.

### ■ For Cleaning

Depending on the media used, the printer may accumulate residues (media dust, adhesives, etc.) as a by-product of normal printing. To maintain the best printing quality, you should remove these residues by cleaning the printer periodically. Regularly clean the print head and supply sensors once change a new media to keep the printer at the optimized performance and extend printer life.

### ■ For Disinfecting

Sanitize your printer to protect yourself and others and can help prevent the spread of viruses.

### ■ Important

- Set the printer power switch to O (Off) prior to performing any cleaning or disinfecting tasks. Leave the power cord connected to keep the printer grounded and to reduce the risk of electrostatic damage.
- Do not wear rings or other metallic objects while cleaning any interior area of the printer.
- Use only the cleaning agents recommended in this document. Use of other agents may damage the printer and void its warranty.
- Do not spray or drip liquid cleaning solutions directly into the printer. Apply the solution on a clean lint-free cloth and then apply the dampened cloth to the printer.
- Do not use canned air in the interior of the printer as it can blow dust and debris onto sensors and other critical components.
- Only use a vacuum cleaner with a nozzle and hose that are conductive and grounded to drain off static build up.
- All reference in these procedures for use of isopropyl alcohol requires that a 99% or greater isopropyl alcohol content be used to reduce the risk of moisture corrosion to the printhead.
- Do not touch printhead by hand. If you touch it carelessly, please use 99% Isopropyl alcohol to clean it.
- Always taking personal precaution when using any cleaning agent.

## Cleaning Tools

- Cotton swab
- Lint-free cloth
- Brush with soft non-metallic bristles
- Vacuum cleaner
- 75% Ethanol (for disinfecting)
- 99% Isopropyl alcohol (for printhead and platen roller cleaning)
- Genuine printhead cleaning pen
- Mild detergent (without chlorine)

## Cleaning Process:

Printer Part	Method	Interval
<b>Print Head</b>	<ol style="list-style-type: none"> <li>I. Always turn off the printer before cleaning the printhead.</li> <li>II. Allow the printhead to cool for at least one minute.</li> <li>III. Use a cotton swab and 99% Isopropyl Alcohol or genuine print head cleaning pen to clean the print head surface.</li> </ol>	Clean the print head when changing a new label roll.
<b>Platen Roller</b>	<ol style="list-style-type: none"> <li>I. Turn off the printer.</li> <li>II. Rotate the platen roller and wipe it thoroughly with the lint-free 99% Isopropyl Alcohol.</li> </ol>	Clean the platen roller when changing a new label roll
<b>Peel Bar</b>	Use the lint-free cloth with 99% Isopropyl Alcohol to wipe it.	As needed
<b>Sensor</b>	Use brush with soft non-metallic bristles or a vacuum cleaner, to remove paper dust. Clean upper and lower media sensors to ensure reliable Top of Form and Paper Out sensing.	Monthly
<b>Exterior</b>	Clean the exterior surfaces with a clean, lint-free cloth (water-dampened cloth). If necessary, use a mild detergent or desktop cleaning solution then use the 75% Ethanol to wipe it.	As needed
<b>Interior</b>	Clean the interior of the printer by removing any dirt and lint with a vacuum cleaner, as described above, or use a brush with soft non-metallic bristles then use the 75% Ethanol to wipe it.	As needed

## 9. Agency Compliance and Approvals



EN 55032, Class B  
EN 55024  
EN 60950-1;  
EN 61000-3-2; EN 61000-3-3  
FCC part 15B, Class B  
ICES-003, Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:



- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**This Class B digital apparatus complies with Canadian ICES-003.**

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



AS/NZS CISPR 32, Class B



UL 60950-1(2nd Edition)  
CSA C22.2 No. 60950-1-07(2nd Edition)



EN 60950-1



GB 4943.1  
GB 9254, Class B  
GB 17625.1



Energy Star for Imaging Equipment Version 2.0

Note: There may have certification differences in the series models, please refer to product label for accuracy.

#### **Important safety instructions:**

1. Read all of these instructions and keep them for later use.
2. Follow all warnings and instructions on the product.
3. Disconnect the power plug from the AC outlet before cleaning or if fault happened.  
Do not use liquid or aerosol cleaners. Using a damp cloth is suitable for cleaning.
4. The mains socket shall be installed near the equipment and easily accessible.
5. The unit must be protected against moisture.
6. Ensure the stability when installing the device, Tipping or dropping could cause damage.
7. Make sure to follow the correct power rating and power type indicated on marking label provided by manufacture.
8. Please refer to user manual for maximum operation ambient temperature.

#### **WARNING:**

Hazardous moving parts, keep fingers and other body parts away.

**CAUTION:**

(For equipment with RTC (CR2032) battery or rechargeable battery pack)

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the Instructions as below.

1. DO NOT throw the battery in fire.
2. DO NOT short circuit the contacts.
3. DO NOT disassemble the battery.
4. DO NOT throw the battery in municipal waste.
5. The symbol of the crossed out wheeled bin indicates that the battery should not be placed in municipal waste.



**Caution:** The printhead may be hot and could cause severe burns. Allow the printhead to cool.

**CAUTION:**

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

# 10. Revision History

Date	Content	Editor
2023/8/10	Modify 2.1 Unpacking and Inspection section	Camille

**TSC** **PRINTRONIX**<sup>®</sup>  
**AUTO ID**