

TTP-2610MT Series

Thermal Transfer Direct Thermal Industrial Barcode Printers



Series Lists:

TTP-2610MT / TTP-368MT

User Manual

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1. Introduction

Thank you very much for purchasing TSC bar code printer.

The TTP-2610MT Series Printers are designed with die-casting aluminum chassis and print mechanism, metal cover with large clear media view window, which ensuring to work for the extreme and heavy duty industrial environment and applications.

With back-lit graphic LCD display, printer status can be managed easier and operated more user friendly. The moveable sensor design can accept wide range of label media. All of the most frequently used bar code formats are included. Fonts and bar codes can be printed in any one of the four directions. TTP-2610MT Series are built-in the high quality, high performance MONOTYPE IMAGING® True Type font engine and one CG Triumvirate Bold Condensed smooth font. With flexible firmware design, user can also download the True Type Font from PC into printer memory for printing labels. It also provides a choice of five different sizes of alphanumeric bitmap font, OCR-A and OCR-B fonts. By integrating rich features.

This document provides an easy reference for operating the MH241 series. TSC printers include the Windows labeling software for creating your label template. For system integration, the TSPL/TSPL2 printer programming manual or SDKs can be found on TSC website at: <u>https://www.tscprinters.com</u>.

1.1 Product Specification

Dreduct stendard facture	203 dpi	300 dpi
Product standard feature	models	models
Thermal transfer/ or direct thermal	V	V
High quality die-cast aluminum design	V	V
Metal cover with large clear media view window	V	V
Transmissive gap sensor (position adjustable from 4"~8")	V	V
Reflective black mark sensor position full web adjustable	V	V
Transmissive ribbon end sensor	V	V
Ribbon encoder sensor (Support color ribbon)	V	V
Head open sensor	V	V
Resistive Touch Screen, 16 bits Color, 480 x 272 pixels, with back lights	V	V
Control panel with 6 operation buttons	V	V
LED indicators	V	V
Real time clock	V	V
Internal Ethernet print server (10/100 Mbps) interface	V	V
USB 2.0 client (High speed mode)	V	V
Serial RS-232C (2400-115200 bps) interface	V	V
USB host interface, for scanner or PC keyboard	V	V
Centronics (SPP mode)	V	V
256 MB DDR2 SDRAM memory	V	V
512 MB FLASH memory	V	V
SD Flash memory card slot for Flash memory expansion, up to 32GB	V	V
32-bit RISC high performance processor(BGA 536MHz)	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 $^{\ensuremath{\mathbb{S}}}$ true type font engine with one CG Triumvirate Bold Condensed	V	V

scalable font

Downloadable fonts from PC to printer memory

V

V

Bar code, graphics/image printing

1D bar code:

Code128 subsets A.B.C, Code128UCC, EAN128, Interleave 2 of 5, Code 39, Code 93, EAN-13, EAN-8, Codabar, POSTNET, UPC-A, UPC-E, EAN and UPC 2(5) digits, MSI, PLESSEY, China Post, ITF14, EAN14, Code 11, TELPEN, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS

2D bar code:

CODABLOCK F mode, DataMatrix, Maxicode, PDF-417, Aztec, MicroPDF417, QR code, RSS Barcode (GS1 Databar)

Supported Image: BITMAP, BMP, PCX (Max. 256 colors graphics) v

V

1.1.1 Printer Optional Features

The printer offers the following optional features.

Product option feature	User option	Dealer option	Factory option
Applicator I/O interface (GPIO)			V
Peel-off module		V	
Regular cutter (Rotary cutter)			
Max. paper width:178mm		V	
Media thickness: 0.06 ~ 0.25mm		v	
Media type: receipt, tag, and label liner w/o glue			
KP-200 Plus series keyboard	V		
KU-007 Plus programmable smart keyboard	V		
Bluetooth module (Serial interface)	V		
802.11 a/b/g/n wireless module		V	
(Slot-in; For TTP-2610MT only)		v	

Note: Except for the linerless cutter, all regular/heavy duty/care label cutters DO NOT cut on media with glue.

1.2 General Specification

General Specifications

Physical dimensions	355 mm (W) x 337 mm (H) x 520 mm (D)
Weight	21.5 kg
	Internal switching power supply
Power	Input: AC 100-240V, 3.0A, 50-60Hz
	Output: DC 24V, 8.33A, 200W
Environmental condition	Operation: 5 ~ 40°C (41 ~ 104°F), 20~85% non-condensing Storage: -40 ~ 60 °C (-40 ~ 140°F), 10~90% non-condensing
Environmental concern	Comply with RoHS, WEEE

1.3 Print Specification

Print Specifications	203 dpi	300 dpi
Finit Specifications	models	models
Print head resolution	203 dots/inch	300 dots/inch
(dots per inch/mm)	(8 dots/mm)	(12 dots/mm)
Printing method	Thermal transfer/	or direct thermal
Dot size	0.125 x 0.125 mm	0.084 x 0.084 mm
(width x length)	(1 mm = 8 dots)	(1 mm = 12 dots)
Print speed	Up to 12 ips	Up to 10 ips
(inches per second)	(11~12 ips for special media)	(9-10 ips for special media)
Max. print width	168 mm (6.61")	168 mm (6.61")
Max. print length	11,430 mm (450")	5,080 mm (200")
Printout bias	Vertical: 1	
	Horizontal: 1	i mm max.

1.4 Ribbon Specification

Ribbon Specifications

Ribbon outside diameter	Max. OD 90 mm	
Ribbon length	450 meter	
Ribbon core inside diameter	1" core (25.4 mm)	
Ribbon width	50.8~178 mm (2"~7")	
Ribbon wound type	Ink coated inside/ outside	
Note: Support color ribbon		

1.5 Media Specification

Media Specifications	203 dpi models	300 dpi models
Label roll capacity	208.3 mm	n (8.2") OD
Media alignment	Edge al	lignment
Media type	Continuous, die-cut, bla	ack mark, fan-fold, notch
Media wound type	Printing face of	outside wound
Media width	50.8 ~ 172.7	mm (2" ~ 6.8")
Media width (cutter mode)	0.06 ~ 0.254 mr	n (2.36 ~ 10 mil)
Media thickness	76.2 n	nm (3")
Media core diameter	Min. 10 m	nm (0.39")
Media length	25.4~5,080 m	nm (1" ~ 200")
Media length	25.4~152.4	mm (1"~6")
(cutter mode)	20.4**102.4	mm (1 ~0)
Gap height	Min.	2 mm
Black mark height	Min.	2 mm
Black mark width	Min. 8 m	m (0.31")

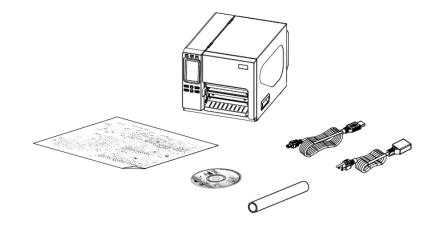
2. Operation Overview

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.

Unpacking the printer, the following items are included in the carton.

- 1 Printer unit
- 1 Quick installation guide
- 1 Power cord
- 1 USB interface cable
- 1 Paper core (for ribbon rewind)



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

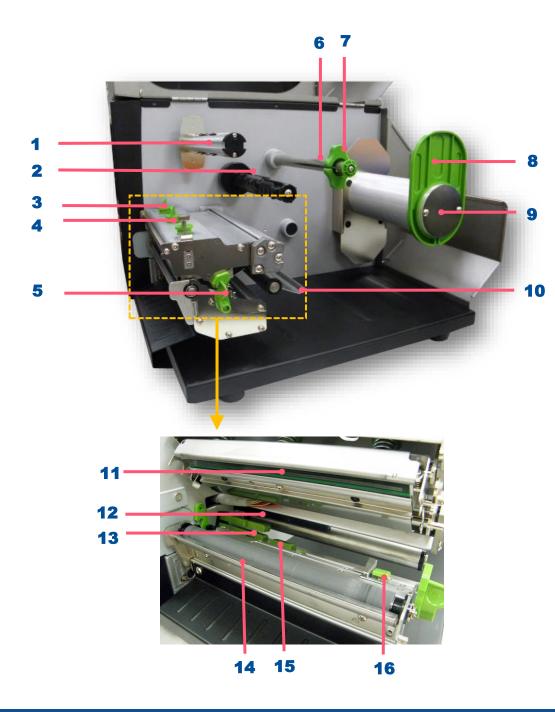
2.2 Printer Overview

2.2.1 Front View

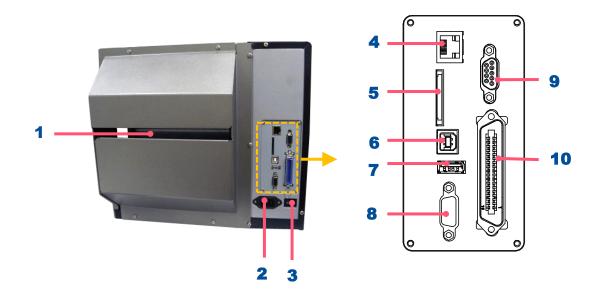


- 1. LED indicators
- **2.** Touch screen
- 3. Operation buttons
- 4. Media viewer
- 5. Paper exit chute
- **6.** Printer right side cover opener

2.2.2 Interior View



- 1. Ribbon rewind spindle
- 2. Ribbon supply spindle
- **3.** Print head pressure adjustment knobs
- 4. Z axis mechanism adjustment knob
- **5.** Print head release lever
- 6. Media guide bar
- 7. Rear label guide
- 8. Label roll guard
- 9. Label supply spindle
- 10. Damper
- 11. Print head
- 12. Ribbon sensor
- 13. Gap sensor
- 14. Platen roller
- **15.** Black mark sensor
- 16. Front label guide



- **1.** External label entrance chute
- 2. Power switch
- **3.** Power cord socket
- 4. Ethernet interface
- 5. microSD card slot
- 6. USB interface
- 7. USB host
- 8. RS-232C interface
- 9. GPIO interface (Option)
- **10.** Centronics interface (Option)

Note: The interface picture here is for reference only. Please refer to the product specification for the interfaces availability.



2.3.1 LED Indication and Keypads

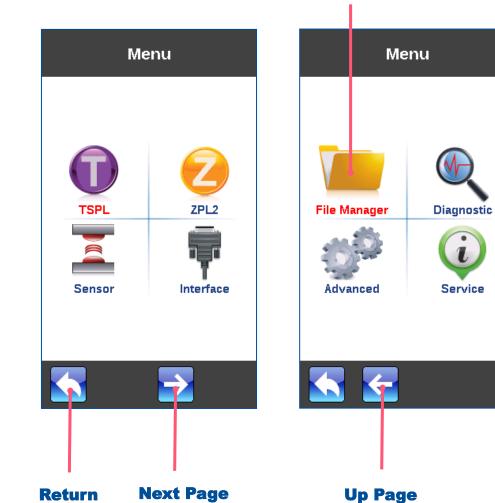
LED	Status	Indication
POWER	Off	Printer power off
POWER	On	Printer power on
	On	Printer is ready
ON-LINE	Blinking	Printer is paused
	Billikilig	Printer is downloading data
	Off	Printer is ready
ERROR	On	Carriage open or cutter error
	Blinking	No paper, paper jam or no ribbon

Keys	Function
PAUSE	Pause/Resume the printing process
MENU	 Enter the menu Exit from a menu or cancel a setting and return to the previous menu
FEED	Advances one label
UP	Scroll up the menu list
SELECT	Enter/Select cursor located option
DOWN	Scroll down the menu list

2.3.2 Touch Screen Manipulation

Tap an item to open/use it.

Selected Item (Red)



т	SPL
Speed	5
Density	15
Direction	D
Print Mode	Batch Mode
Offset	0 dot
Shift X	0 dot

Scroll down

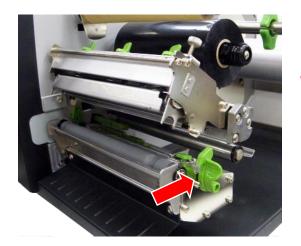
TSPL	
Shift Y	-96 dot
Reference X	0 dot
Reference Y	0 dot
Code Page	1254
Country	001
💽 🏠	
Scroll up	

3. Setup

3.1 Setting up the printer

- 1. Place the printer on flat surface.
- 2. Make sure the printer is power off.
- **3.** Connect the printer to the computer with the provided USB cable.
- 4. Plug in the power cord.
- Note: Please switch OFF the printer before plugging in the power cord to printer power jack.

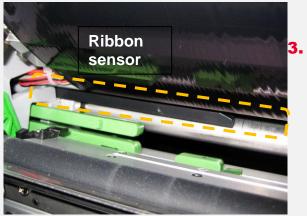
3.2 Loading the Ribbon



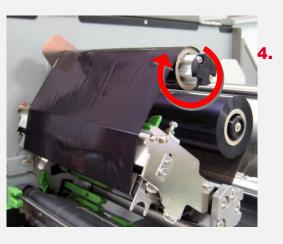
 Lift the handle to open the printer right side cover.
 Push the print head release lever to open the print head mechanism.



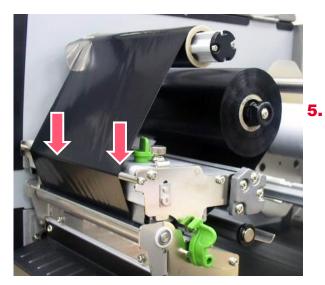
Install the ribbon and paper core onto the ribbon supply spindle and ribbon rewind spindle.



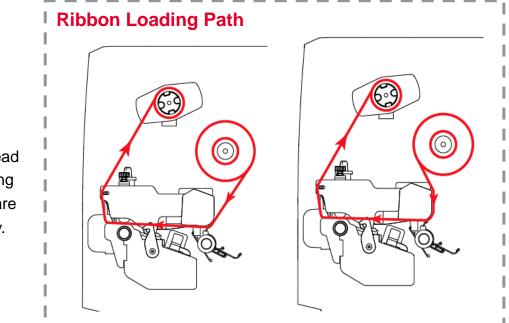
 Thread the ribbon through the ribbon sensor slot and then through the open space in between print head and platen.



Wind the ribbon clockwise about 3~5 circles onto the ribbon rewind spindle until it is smooth and properly stretched.



Close the print head mechanism making sure the latches are engaged securely.



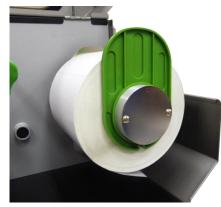
Ink coated outside

Ink coated inside

3.3 Loading the Media



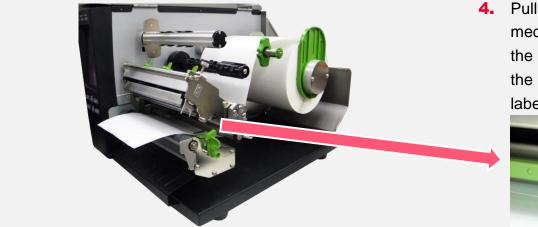




1. Lift the handle to open the printer right side cover. Push the print head release lever to open the print head mechanism.

2. Remove one label roll guard from the label spindle.

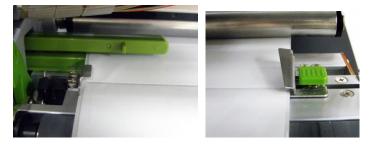
3. Place the roll of media on the label supply spindle and push it to the end of label spindle. Install the label roll guard gently to fit the width of label roll.

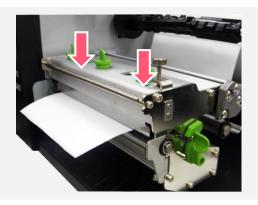


4. Pull label roll leading edge forward through the media guide bar, damper, media sensor and place the label leading edge onto the platen roller. Adjust the rear label guide (green) to fit the width of the label.



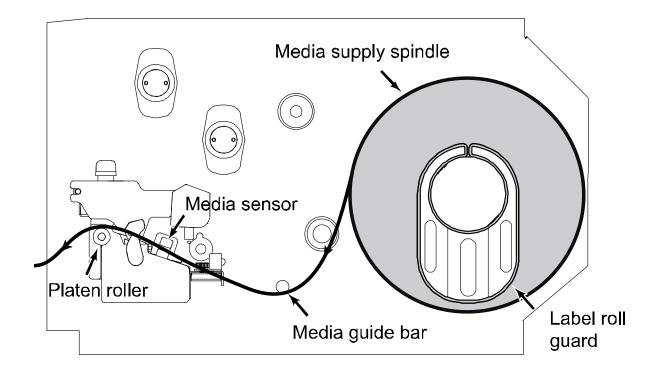
5. Making sure the label is into both label guides.





- **6.** Close the print head mechanism. Make sure the latches are engaged securely.
- Using the front display panel, set media sensor type and calibrate the selected sensor.

Loading path for media

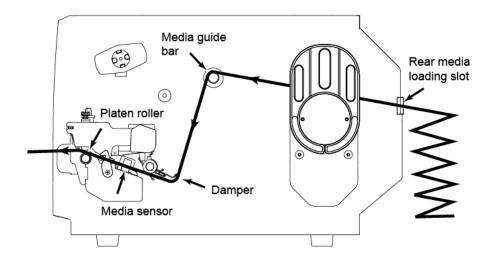


3.4 Loading the Media in Fan-fold / External Mode (Option)



- **1.** Open the printer right side cover.
- 2. Insert the fan-fold media through the bottom or rear external label entrance chute.
- Please refer to section 3.3 loading media
 Note: Please calibrate the gap/black mark sensor when changing media.

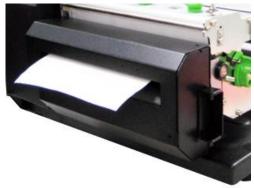
Loading path for fan-fold labels



3.5 Loading the Media in Cutter Mode (Option)







 Lift the handle to open the printer right side cover. Push the print head release lever to open the print head mechanism.Please refer to section 3.3 to load media.

 Lead the media through the cutter paper opening. Adjust the label guide to fit the width of the label.

- **3.** Close the print head mechanism making sure the latches are engaged properly.
- Using the front display panel, set the printer setting to cutter mode. Press the FEED button to test.

3.6 Loading the Media in Peel-off Mode (Option)







1. Install the label and calibrate the selected sensor.

2. Install the paper core on internal rewind spindle.

3. Pulling the lower cover of print head up as picture showed.



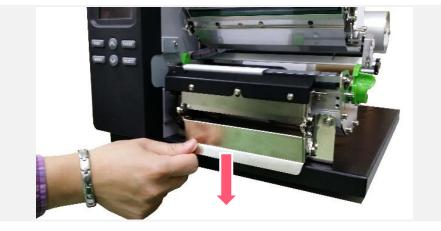
4. Place the label through the peel-off cover slot and platen roller.





Please note the direction of label (printing side facing up).

6. Paste the media on the paper core and rolling it counterclockwise for 3 to 5 circles until the liner is completely stretched.

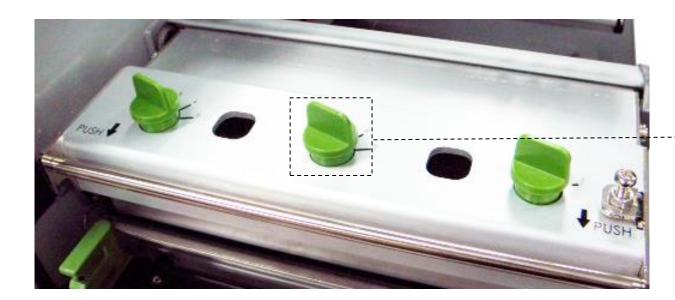


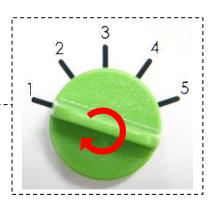
7. Pulling the lower cover down to close the print head and test the function in peel-off mode

Note:

*Please calibrate the gap/black mark sensor when changing media.

4. Knob Adjustment





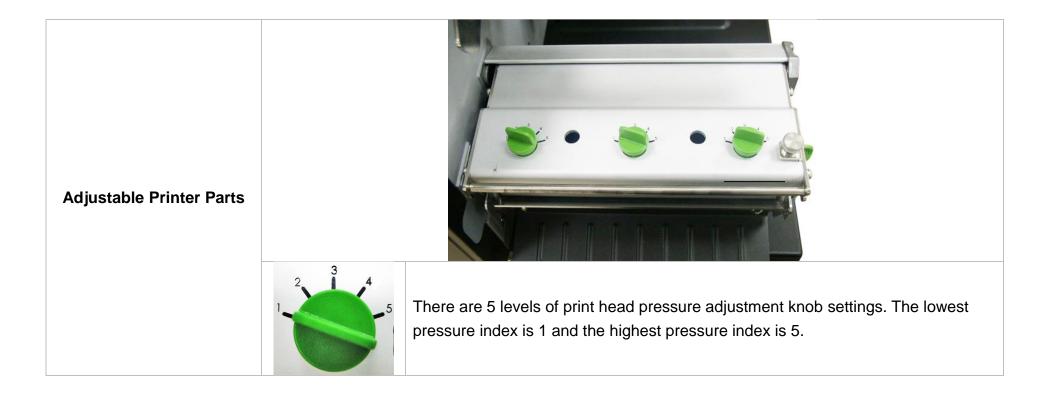
There are conditions that will need to adjust the print head pressure.

- Print with thick media If media thickness is larger than 0.19 mm, the larger pressure is required to get good quality printout.
- Ribbon wrinkle presented on the media

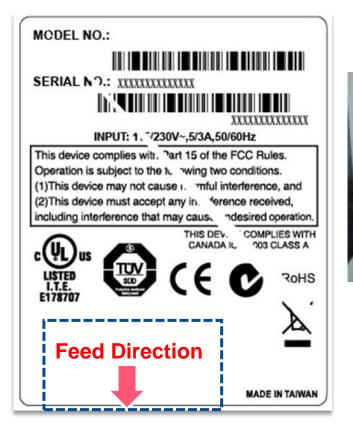
There are 5 levels of pressure for adjustment. Level 1 is the minimum pressure and level 5 is the maximum pressure. Please refer to next section for more information.

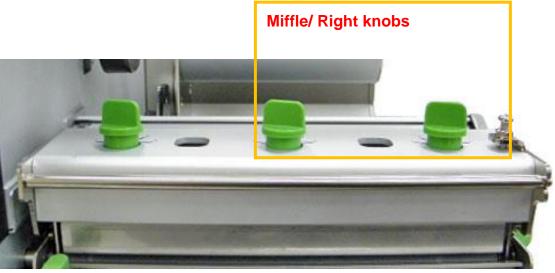
4.1 Mechanism Fine Adjustment to Avoid Ribbon Wrinkles

Ribbon wrinkle is related to the media width, thickness, print head pressure balance, ribbon film characteristics, print darkness setting...etc. In case the ribbon wrinkle happens, please follow the instructions below to adjust the printer parts.



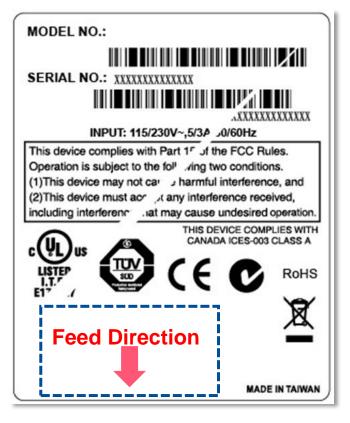
Wrinkle happens from label lower right to upper left direction

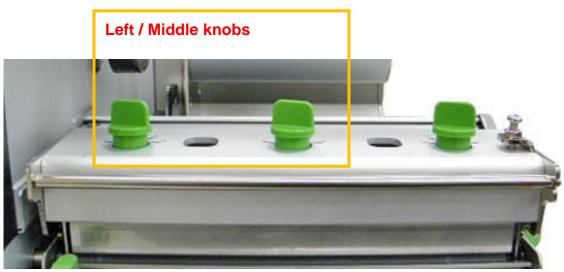




- Decrease the left side print head pressure adjustment knobs setting 1 level per each adjustment then print the label again to check if wrinkle is gone.
- If the left side print head adjustment knobs level has been set to index 1 (the lowest index), please increase the right side print head pressure.
- If the right side print head adjustment knob setting has been set to 5 (the highest pressure index) the wrinkle can't be avoid, please

Wrinkle happens from label lower left to upper right direction





- Decrease the right side print head pressure adjustment knobs setting 1 level per each adjustment then print the label again to check if wrinkle is gone.
- If the right side print head adjustment knobs setting has been set to index 1 (the lowest pressure index), please increase the left side print head pressure.
- If the left side print head adjustment knob setting has been set to 5 (the highest pressure index) the wrinkle can't be avoided, please increase the middle print head pressure knob.

Pressure knob adjustment reference:

6" label

Left index	Middle index	Right index
2	1	1
3	1	1
4	1	1
5	1	1
5	2	1
5	3	1
5	4	1
5	5	1

3"label

Left index	Middle index	Right index
2	2	1
3	3	1
4	4	1
5	5	1

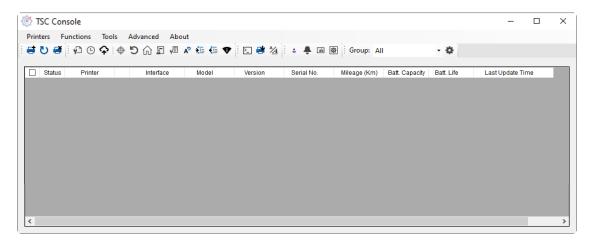
5. TSC Console

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.

Add Printers		×
USB		~ U
О СОМ	COM1	~ •
	LPT1	\sim
⊖ Networ	k	
	OK	

- **4.** The printer will be added to **TSC Console**'s interface.
- **5.** Select the printer and set the settings.

rinters Functions Tools Advanced About ■ U ● 10 0 0 0 0 0 10 10 10 10 10 10 10 10 10	C Con											- 0	>
Status Printer Interface Model Version Serial Mileage Batt. Capacity Batt. Life Last U									A.II.				
	, e î	¥ 0 •	ΨJ	ເຊັ່ນປ	YEL A. Z.	= s ≔ ▼ [:			oup: All	- se			
🗹 🍦 PS-80E984 🔮 USB 🛛 🛛 🛛 B1.23 EZD 0.0044 9/16/2020 3.4	Status	Printer		Inter	face	Mode	Versi	on Seria	l Mileage	Batt. Capacity	Batt. Life	Last	t Upd
	- 	PS-80E984	ψ	USB			B1.23 E2		0.0044			9/16/2020	3:40

• 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.

🖉 TSO	C Console	:									-		×
Printe	ers Fur	octions Tools	Advar	nced About									
े 🖬 🕻	ט 🗃 🗄	₽ 0 ♠ ⊕	5	🖓 🔄 🖉 🗚 🍋	🤃 🕈 🗄 🛃	1 <u>/4</u> 🕴 🛔 🗈	Group: Al		•				
	Status	Printer		Interface	Model	Version	Serial No.	Mileage (Km)	Batt. Capacity	Batt. Life	Last Upda	te Time	

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

inter Configuration	lation TPH Care Smart B	Potton		Unit inch V				
Printer Function	Printer Configuration	Jallety						
Calibration	Version: Serial No.:	MH59280311	TPH Serial Number:	N/A				
RTC Setup	Checksum: Ribbon Remaining:	09B5C28C	TPH Odometer: Cutter Serial Numbe	N/A				
Factory Default	Label Count: Cutting Counter:	1422 18 18 Rese	ıt		Common RS-232 Bluetoo	oth Wi-Fi Ethernet SMTP S	SNTP	
Reset Printer	Mileage (Km):	0.2791 0.0104 Rese	łt			-		
Print Test Page	Common RS-232 E Speed:	Bluetooth Wi-Fi Ethernet	Ribbon:	ON ~	DHCP IP Address:	O Static IP		
Configuration Page	Density:	8 ~	Ribbon Sensor:	ON v	Subnet Mask:	255.255.255.0	Set	
Dump Text	Paper Width: Paper Height:	4.00 inch 4.00 inch	Ribbon Encoder Err.: Head-up Sensor:	ON ~ ON ~	Gateway:	10.0.10.251		
Ignore AUTO.BAS	Media Sensor: Gap:	GAP ~ 0.12 0.00 inch	Reprint After Error: Maximum Length:	ON ~ 10.00 inch	MAC Address:	00-1B-82-E0-12-2A		
Exit Line Mode	Post-Print Action:	TEAR ~	Gap Inten.:	8	Primary DNS IP:			
Enter Line Mode	Reference: Direction:		Bline Inten.: Continuous Inten.:	2	Secondary DNS IP:		Set	
Wi-Fi Default	Offset Shift X:	0 dot 0 dot	Threshold Detection: Print Quality:	AUTO V	Printer Name:	PS-E0122A	Set	
	Shift Y:	0 dot	Standby Time:	secs (1~65534, 0: OFF)				
Get Status	Code Page: Country Code:	850 ~ 001 ~	Sleep Time:	(1~65534, 0: OFF) mins (10~65534, 0: OFF)	Raw Port:	9100	Set	
Save Load				Set Get			Set	Ge

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 Ehternet interface.

Add Printers			×	Add Network Printers	
		~ 1	บ	 Broadcast IP Address: Subnet 	10.0.10.181
				First IP Address	Last IP Address
О СОМ	COM1	\sim	¢	10.0.10.1	10.0.10.100
	LPT1	\sim			
Network	ĸ				Discover
	ОК			Printer firmware version befo can only be discovered throu	

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

×	🍪 TSC Console							— C	x c
	Printers Functions Tools	Advanced About							
Add 1 printers	i 🖶 🕐 🖉 i 🖓 🕒 🗘 🔶	🖸 🎧 🖳 🖉 🥵 🤆	🗄 🗣 🗈 📑 🖄 🖬 🖬	🖣 🗈 🕸 Group: Al	-	\$			
	Status Printer	Interface	Model Version	Serial No.	Mileage (Km)	Batt. Capacity	Batt. Life	Last Update Ti	me
ОК	□ 💡 PS-E0122A	₽ USB		MH59280311	0.2791			08/10/2021 15:11:	24
	✓ ♀ PS-E0122A	↔ 10.0.10.181		MH59280311	0.2791			08/10/2021 15:12:	27

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. 	Image: Status Printer Interface Model Version Serial Mileage Batt. Life Last. Update Image: Status Printer Interface Model Version Serial Mileage Batt. Life Last. Update Image: PS-800E984 Image: Version Serial Mileage Batt. Life Last. Update
 Click Get to receive printer's information. Click Wi-Fi to the wi-fi setting page. 	Printer Configuration Endlation TPH Care Smart Batery Unit Init Printer Configuration TPH Care Smart Batery Unit Init Init Printer Configuration Printer Configuration Printer Configuration Init Init Galibration Printer Configuration Version: Init Init Init Factory Default Printer Configuration 864 Cutter Serial Number: N/A Image Kinstrip 0.852.02 Bluetoon Reset Initiange Kinstrip Optimp Text Bseed Seed Off Version: Off Version: Off Version: Bases Continguration Page Dump Text Bios Bensor: Off Version: OFF Version: Bases Continuous Reprint Action: TEAR Gap Inten: 7 Pager Width: 2.36 neh Reborn: To Nei Gap: Gap: 0.00 0.00 Nei Nei Bios Gap: Gap Inten: 7 Endleme: Nei Gap: Gap: Gap: Gap: Standby Time: G

For WPA-Personal

- Fill-in the SSID.
- **II.** Select the Encryption option to **WPA-Personal**.
- **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.

For WPA-Enterprise

- 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.

Built-in Wi-Fi Module	9			
SSID:	SSID_1	EAP Type:	~	
WLAN Encryption:	WPA-Personal ~	Username:		
Key:	••••	Password:		
DHCP:	ON 🗸	-	File Name	Browse
IP Address:		CA Certificate:		
Subnet Mask:	0.0.0.0	Client Certificate:		
Gateway:		Private Key:		
Primary DNS IP:		EAP-FAST PAC:		
Secondary DNS IP:]		
Raw Port:	9100]		
Printer Name:	PS-FF153C	Wi-Fi Version:	3.7.1.0R6	
MAC Address:	00:1B:82:FF:15:3C	RSSI:	0	
			2 Set	Get
	luetooth Wi-Fi Ethe	ernet SMTP SNTP		Get
uilt-in Wi-Fi Module	luetooth Wi-Fi Ethe	ernet SMTP SNTP		Get
uilt-in Wi-Fi Module SID:				Get
uilt-in Wi-Fi Module SID: /LAN Encryption:	SSID_2	EAP Type:		Get
nmon RS-232 Bi uilt-in Wi-Fi Module SID: /LAN Encryption: ey: HCP:	SSID_2 WPA-Enterprise ~	EAP Type: Username:		Get
uilt-in Wi-Fi Module SID: /LAN Encryption: ey:	SSID_2 WPA-Enterprise ~	EAP Type: Username:		
uilt-in Wi-Fi Module SID: /LAN Encryption: ey: HCP:	SSID_2 WPA-Enterprise ~	EAP Type: Username: Password:		
nilt-in Wi-Fi Module SID: LAN Encryption: ey: HCP: Address: ubnet Mask:	SSID_2 WPA-Enterprise ~ ••••• ON ~ 1	EAP Type: Username: Password: CA Certificate:		
uilt-in Wi-Fi Module SID: /LAN Encryption: ey: HCP: Address: ubnet Mask: ateway:	SSID_2 WPA-Enterprise ~ ••••• ON ~ 1	EAP Type: Username: Password: CA Certificate: Client Certificate:	Set	
uilt-in Wi-Fi Module SID: /LAN Encryption: ey: HCP: ? Address:	SSID_2 WPA-Enterprise ~ ••••• ON ~ 1	EAP Type: Username: Password: CA Certificate: Client Certificate: Private Key:		
uilt-in Wi-Fi Module SID: /LAN Encryption: ey: HCP: ? Address: ubnet Mask: ateway: rimary DNS IP:	SSID_2 WPA-Enterprise ~ ••••• ON ~ 1	EAP Type: Username: Password: CA Certificate: Client Certificate: Private Key:	Set	
uilt-in Wi-Fi Module SID: 'LAN Encryption: ey: HCP: Address: ubnet Mask: ateway: rimary DNS IP: econdary DNS IP:	SSID_2 WPA-Enterprise ●●●●● ON ● 0N ●	EAP Type: Username: Password: CA Certificate: Client Certificate: Private Key:	Set	

Get

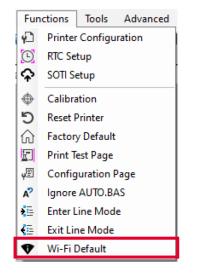
Please Wait After clicking **Set** button, it'll pop-up the window tip as below shown. Please wait as this may take a few seconds... ٠ . IP address will be shown in the "IP address" field and the Wi-Fi logo and IP address will be displayed on the LCD control panel. Note: IP address should be shown within 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. X Add Network Printers Remove the cable between the computer and the O Broadcast: IP Address: ? 0.0.0.0 printer. O Subnet: First IP Address Last IP Address Go to main page, click Add Printer to add the 10.0.10.1 10.0.10.10 printer via Network. Select the printer and enter the setting page by double clicking the printer. Discover Click the **Print Test Page** button to print the test Printer firmware version before A.12 and Alpha-2R/3R/4L, TDM series page via Wi-Fi interface. can only be discovered through "IP Address" option.

5.4 Initialize the Printer WiFi Setting

1. Return to the main page of TSC Console.

©1	SC Conso	le									- 0	\times
Prin	ters Fu	inctions Tools	Adv	anced About								
6	U		51	û 🗊 🖉 🖍 🔃	< 🕈 🖹 🖻] 💐 🖄 🕴 🛔 🛛	画 母 Group:	All	- 0			
			_									_
	Status	Printer		Interface	Model	Version	Serial No.	Mileage (Km)	Batt. Capacity	Batt. Life	Last Update Time	_
		PS-FF1ABD	(-)	192.168.2.113		B1.03.I01 EZC		0.1835			17/09/2021 11:07:13	

- 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.

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

5.6 Setting Post-Print Action

When the printer is equipped with other opton 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 Chp 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 Emula	ation TPH Care Smart	Battery			Unit: mm 🗸
Printer Function	Printer Configuration				
Quillback of	Version:				
Calibration	Serial No.:			TPH Serial Number:	N/A
RTC Setup	Checksum:	1344B9B1		TPH Odometer:	N/A
	Ribbon Remaining:	553		Cutter Serial Number:	N/A
Factory Default	Label Count: Cutting Counter:	0 0	Reset		
Reset Printer	Mileage (Km):	0.0913 0.0913	Reset		
	Common RS-232	Bluetooth Wi-Fi Ether	rnet SMTF	SNTP	
Print Test Page	Speed:			bbon:	OFF V
Configuration Page	Density:	8 ~		bbon Sensor:	OFF V
Conliguration Page	Paper Width:	104.00 mm		bbon Encoder Err.:	OFF V
Dump Text	Paper Height:	74.05 mm		ad-up Sensor:	
	Media Sensor:	Black Mark V		print After Error:	ON V
Ignore AUTO.BAS		1.99 0.00		ximum Length:	152.25 mm
Exit Line Mode	Post-Print Action:	~		ap Inten.:	7
	Reference:			ne Inten.:	7
Enter Line Mode	Direction:	OFF TEAR	Co	ontinuous Inten.:	4
Wi-Fi Default	Offset:	PEEL CUTTER	jot Th	reshold Detection:	AUTO ~
WI-FI Delault	Shift X:	REWIND	lot Pri	int Quality:	STANDARD ~
	Shift Y:	APPLICATOR	dot Sta	andby Time:	120 secs
	Code Page:	850 ~			(1~65534, 0: OFF)
	Country Code:	001 ~	SI	eep Time:	0 mins
Get Status				3	(10~655 OFF)
Save Load				ř	Set Get

6. LCD Menu Function

6.1 Enter the Menu

By touch display:

Tap the "Menu" icon on LCD to enter the main menu.

By Keys:

Press the "MENU" button and press the "SELECT" button to enter the main menu.

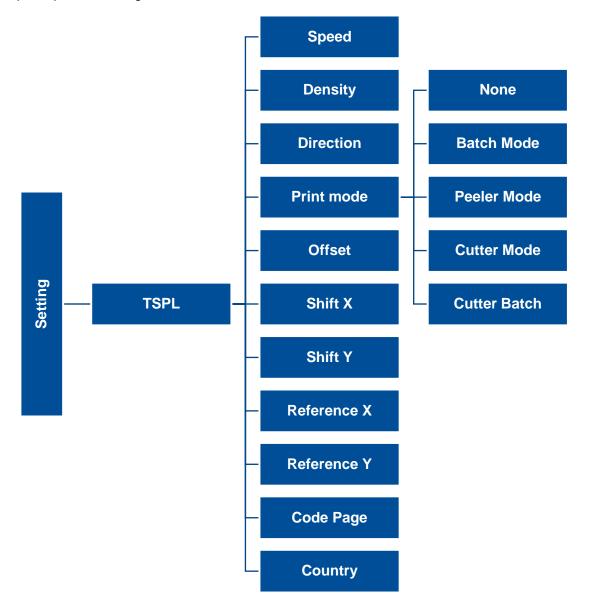
6.2 Menu Overview

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	File Manager : To check and manage printer's memory storage.
ZPL2 : To set up the printer settings ZPL2.	Diagnostic : To check printer and help users to troubleshoot the problems.
Sensor : To calibrate the selected media sensor.	Advanced : To set LCD, initialization, cutter type,etc.
Interface : To set the printer interface settings.	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.

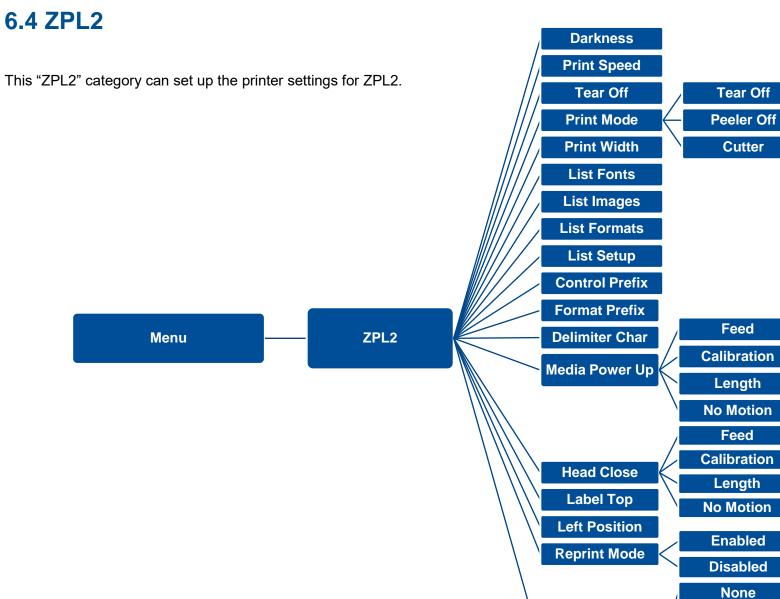


41

Item	Description	Default
Speed	Set the print speed. Setting range: 2~14 for 203dpi; 2~12 for 300dpi; 1~6 for 600dpi	6
Density	Set the printing darkness.	8
Direction	Set the printout direction. Setting Value: 0 and 1. Direction 0:	0
Print mode	Set the print mode. There are 5 modes in total: None: Next label top of form is aligned to the print head burn line location. (Tear Off Mode) Batch Mode: Once finishing the printing process, label will be fed to the tear plate location. Peeler Mode: Enable the label peel off mode. Cutter Mode: Enable the label cutter mode. Cutter Batch: Cut the label once at the end of the printing job.	Batch Mode
Offset	Adjust media stop location. Available value setting range: -999 dots to 999 dots.	0 dot
Shift X	Adjust print position. Available value potting range: 000 date to 000 date	0 dot
Shift Y	Adjust print position. Available value setting range: -999 dots to 999 dots.	0 dot
Reference X	Set the origin of printer coordinate system horizontally and vertically. Available setting range: 0 dot to 999	0 dot
Reference Y	dots.	0 dot
Code page	Set the code page of international character set.	850
Country	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



150 -> 300

150 -> 600

200 -> 600 300 -> 600

Format Convert

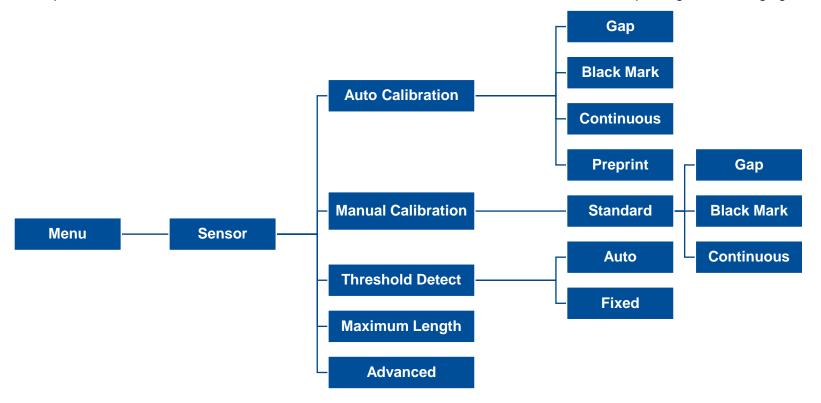
Item	Description	Default
Density	Set the printing darkness. Available setting range: 0 to 30.	16
Print Speed	Set the print speed. Available setting range is 2~18 for 203dpi and 2~14 for 300dpi; 1.5~6 for 300dpi	N/A
Tear Off	Adjust media stop location. Available setting value range: -120~120 dots.	0 dot
Print mode	Set the print mode. There are 4 modes: Tear Off: Next label top of form is aligned to the print head heating line location. Peeler Off : Enable the label peel off mode. Cutter : Enable the label cutter mode	Tear Off
Print Width	Set the print width. Available setting range: $2 \sim 999$ 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

	Set the action of the media when turning on the printer.			
	Feed: Printer will advance one label.			
Media Power Up	Calibration: Printer will make calibration.	No Motion		
	Length: Printer determine length and feed label.			
	No Motion: Printer will not move media.			
	Set the action of the media when closing the print head.			
	Feed: Printer will advance one label.			
Head Close	Calibration: Printer will make calibration.	No Motion		
	Length: Printer determine length and feed label.			
	No Motion: Printer will not move media.			
Label Top	Adjust print position vertically on the label. Value range: -120 to +120 dots.	0		
Left Position	Adjust print position horizontally on the label. Value range:-9999 to +9999 dots.	0		
Reprint Mode	Reprint the last label by pressing $\textcircled{\otimes}$ button on printer's control panel.	Disabled		
Format Convert	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.	None		

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

6.5 Sensor

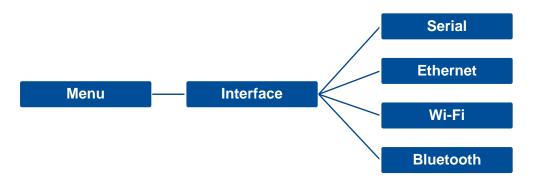
This option is used to calibrate the selected sensor. We recommend calibrate the sensor before printing when changing the media.



Item	Description	Default
Auto Calibration	Set the media sensor type and calibrate the selected sensor automatically.	N/A
Manual Calibration	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
Threshold Detect	Set sensor sensitivity in fixed or auto.	Auto
Maximum Length	Set the maximum length for label calibration.	254 mm
Advanced	Set the minimum paper length and maximum gap/bline length for auto-calibration.	N/A

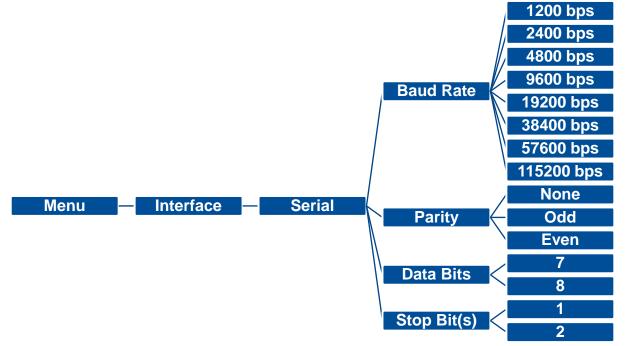
6.6 Interface

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 Ehernet

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



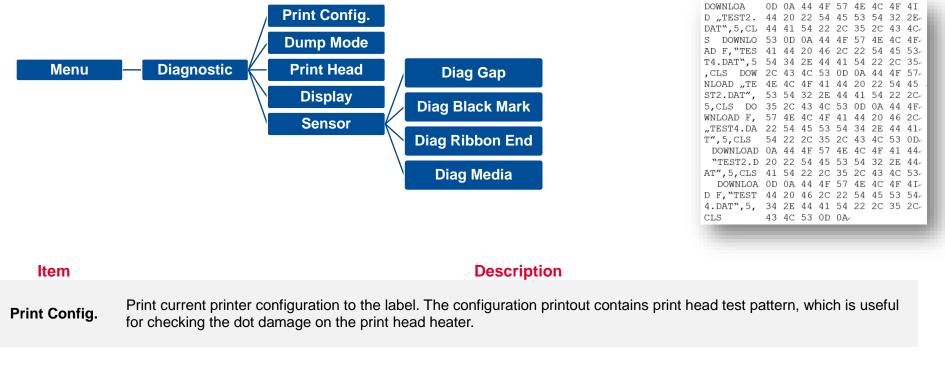
Item	Description	Default
Status	Check the Ethernet IP address and MAC setting status.	N/A
Config.	DHCP: On or OFF the DHCP (Dynamic Host Configuration Protocol) network protocol. Static IP: Use this menu to set the printer's IP address, subnet mask and gateway.	DHCP

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.



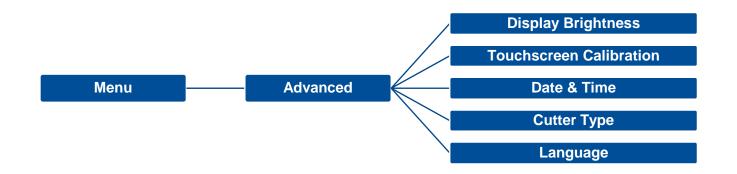
6.8 Diagnostic



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 left side characters are received from your system and right side data are the corresponding hexadecimal value of 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



ltem	Description
Display Brightness	This item is used to setup the brightness for display.
Touchscreen Calibration	This item is used to calibrate the center of the cross for best result for touchscreen.
Date & Time	This item is used to setup the date and time on display.
Cutter Type	This item is used to set the cutter type.
Language	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
Initialization	This feature is used to restore printer settings to defaults.
Printer Information	This feature is used to check printer serial number, printed mileage(m), labels(pcs.) and cutting counter.
Contact us	This feature is used to check the contact information for tech support service

7. TroubleShooting

Problem	Possible Cause	Recovery Procedure
	The power cord is not properly connected.	Plug the power cord in printer and outlet.
Power indicator does not illuminate		Switch the printer on.
Carriage Open	The printer carriage is open.	Close the print carriage.
		Re-connect cable to interface or change a new cable.
		Reset the wireless device setting.
	Check if interface cable is well connected.	Select the correct printer port in the driver.
	 Check if wireless or Bluetooth device is well 	Clean the printhead.
Not Printing	connected.	Printhead's harness connector is not well connected with
Not Printing	 The port in the Windows driver is not 	printhead. Turn off the printer and plug the connector
	correct.	again.
		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.
		Follow the instructions in loading the media and ribbon.
	Label or ribbon is loaded not correctly.	Ribbon and media are not compatible.
No print on the label	 Use wrong type paper or ribbon 	Verify the ribbon-inked side.
		The print density setting is incorrect.
	Running out of ribbon.	Supply a new ribbon roll.
No Ribbon	The ribbon is installed incorrectly.	Refer to user's manual to reinstall the ribbon.
	Running out of label.	Supply a new label roll.
No Paper	The label is installed incorrectly.	Refer to user's manual to reinstall the label roll.
	 Gap/black mark sensor is not calibrated. 	Calibrate the gap/black mark sensor.
	Gap/black mark sensor is not set properly.	Calibrate the media sensor.
Paper Jam	Make sure label size is set properly.	Set media size correctly.
	Labels may be stuck inside the printer	Remove the stuck label inside the printer mechanism.

	mechanism.	
Take Label	Peel function is enabled.	 If peeler module is installed, please remove the label. If there is no peeler module in front of the printer, please switch off the printer and install it. Check if the connector is plugging correctly.
Can't downloading the file to memory (FLASH / DRAM/CARD)	The space of memory is full.	Delete unused files in the memory.
Poor Print Quality	 Ribbon and media is loaded incorrectly. Dust or adhesive accumulation on the p head. Print density is not set properly. Printhead element is damaged. Ribbon and media are incompatible. The printhead pressure is not set properly. 	 Adjust the print density and print speed. Run printer self-test and check the print head test pattern if there is dot missing in the pattern. Change proper ribbon or proper label media.
Missing printing on the left or right side of label	Wrong label size setup.	Set the correct label size.
Gray line on the blank label	The print head is dirty.The platen roller is dirty.	Clean the print head.Clean the platen roller.(Please refer to chapter 8)
Irregular printing	The printer is in Hex Dump mode.The RS-232 setting is incorrect.	Turn off and on the printer to skip the dump mode.Re-set the RS-232 setting.
Label feeding is not stable (skew) when printing	The media guide does not touch the edg of the media.	 If the label is moving to the right side, please move the label guide to left. If the label is moving to the left side, please move the label guide to right.
Skip labels when printing	Label size is not specified properly.	Check if label size is setup correctly.

Wrinkle Problem	 Sensor sensitivity is not set properly. The media sensor is covered with dust. Printhead pressure is incorrect. Ribbon installation is incorrect. Media installation is incorrect. Print density is incorrect. Media feeding is incorrect. 	 Calibrate the sensor by Auto Gap or Manual Gap options. Clear the GAP/Black mark sensor by blower. Please refer to the chapter 4. Please set the suitable density to have good print quality. Make sure the label guide touch the edge of the media guide.
RTC time is incorrect when reboot the printer	The battery has run down.	Check if there is a battery on the main board.
The left side printout position is incorrect	 Wrong label size setup. The parameter Shift X in LCD menu is incorrect. 	 Set the correct label size. Press [Menu] →[Setting] → [Shift X] to fine tune the parameter of Shift X.
The printing position of small label is incorrect	 Media sensor sensitivity is not set properly. Label size is incorrect. The parameter Shift Y in the LCD menu is incorrect. The vertical offset setting in the driver is incorrect. 	 Calibrate the sensor sensitivity again. Set the correct label size and gap size. Press [Menu] →[Setting] → [Shift Y] → to fine tune the parameter of Shift Y. Set the vertical offset in the driver if you're using BarTender.
LCD panel is dark and keys are not working	The cable between main PCB and LCD panel is loose.	 Check if the cable between main PCB and LCD is secured or not. Turn OFF and ON the printer again.
LCD panel is dark but the LEDs are light	The printer initialization is unsuccessful.	 Initialize the printer.
Ribbon encoder sensor doesn't work	 The ribbon encoder sensor connector is loose. 	Fasten the connector.
Ribbon end sensor doesn't work	The connector is loose.The ribbon sensor hole is covered with dust.	Check the connector.Clear the dust in the sensor hole by the blower.
Cutter is not working	The connector is loose.	Plug in the connect cable correctly.

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 careless, 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
Print Head	 Always turn off the printer before cleaning the printhead. Allow the printhead to cool for at least one minute. Use a cotton swab and 99% Isopropyl Alcohol or genuine print head cleaning pen to clean the print head surface. 	Clean the print head when changing a new label roll.
Platen Roller	Turn off the printer.Rotate the platen roller and wipe it thoroughly with the lint-free 99% Isopropyl Alcohol.	Clean the platen roller when changing a new label roll
Peel Bar	Use the lint-free cloth with 99% Isopropyl Alcohol to wipe it.	As needed
Sensor	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
Exterior	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
Interior	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. Angency Compliance and Approvals

CE

EN 55022 (Class A) EN 55024 EN 61000-3-2 / EN 61000-3-3 EN 60950-1

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

FCC CFR Title 47 Part 15B, Class A ICES-003, Class A

FC

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conform à la norme NMB-003 du Canada.



AS/NZS CISPR 22 (Class A)



GB-4943.1 GB9254 (Class A) GB17625.1 此为 A 级产品,在生活环境中,该产品可能会造成无线电干扰,在这种情况下,可能需要用户对干扰采取切 实可行的措施。

Wichtige Sicherheits-Hinweise

- 1. Bitte lesen Sie diese Hinweis sorgfältig durch.
- 2. Heben Sie diese Anleitung für den späteren Gebrauch auf.
- 3. Vor jedem Reinigen ist das Gerät vom Stromentz zu trennen. Verwenden Sie keine Flüssig-oder Aerosolreiniger. Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung.
- 4. Die Netzanschluß-Steckdose soll nahe dem Gerät angebracht und leicht zugänglich sein.
- 5. Das Gerät ist vor Feuchtigkeit zu schützen.
- 6. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Beschädigungen hervorrufen.
- 7. Beachten Sie beim Anschluß ans Stromnetz die Anschlußwerte.
- 8. Dieses Gerät kann bis zu einer Außentemperatur von maximal 40°C betrieben werden.

CAUTION

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

Dispose of used batteries according to the instructions.

"VORSICHT"

Explosionsgefahr bei unsachgemäßen Austaush der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angabren des Herstellers.

CAUTION:

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

CAUTION

1. HAZARDOUS MOVING PARTS IN CUTTER MODULE. KEEP FINGER AND OTHER BODY PARTS AWAY.

2. THE MAIN BOARD INCLUDES REAL TIME CLOCK FEATURE HAS LITHIUM BATTERY CR2032 INSTALLED. RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

3. DISPOSE OF USED BATTERIES ACCORDING TO THE MANUFACTURER

INSTRUCTIONS.

ATTENTION

1. PIECES DANGEREUSES EN MOUVEMENT DANS LE MODULE DE COUPAGE. GARDER VOS DOIGTS ET AUTRES PARTIES DU CORPS À L'ÉCART DE CES ZONES. 2. LE CIRCUIT PRINCIPAL CONTIENT UNE HORLOGE EN TEMPS RÉEL AVEC UNE

BATTERIE AU LITHIUM DE TYPE CR2032. RISQUE D'EXPLOSION SI LA PILE EST REMPLACÉE PAR UNE PILE D'UN AUTRE TYPE.

3. SUIVRE LES INSTRUCTIONS DU FABRICANT POUR LA MISE AU REBUT DES PILES USÉES.

CAUTION:

This equipment is not suitable for use in locations where children are likely to be present.

10. Revise History

Date

Content

Editor

