



MH261T Series

Thermal Transfer Direct Thermal Industrial Barcode Printers



Series Lists: MH261T/MH361T

User Manual



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1. Introduction

Thank you very much for purchasing TSC bar code printer.

The new high-performance MH261T Series was designed to deliver the cleanest and high quality barcodes. It features a die-cast print mechanism housed in a very strong yet lightweight cabinet. This new design results in a more durable printer that is suited for your most heavy-duty demand cycles.

The MH261T Series printers are loaded with standard features including a color touch display with brand-new GUI design and six menu buttons to provide a great user experience, support for 600 meter long ribbons, 8" OD media rolls, built-in Ethernet, RS-232 interface, two USB hosts for keyboard and scanner connections, USB 2.0, serial and Parallel interfaces. GPIO ports, Wi-Fi and Bluetooth modules are available as an option.

This document provides an easy reference for operating the MH261T series. To print label formats, please refer to the instructions provided with your labeling software; if you need to write the custom programs, please refer to the TSPL/TSPL2 programming manual that can be found on TSC website at <u>https://www.tscprinters.com</u>.

1.1 Product Specification

	MH261T	MH361T
Resolution	203 DPI 8 dots/mm	300 DPI 12 dots/mm
Printing method	Thermal transfer a	nd direct thermal
Max. print speed	305 mm (12")/second	254 mm (10")/second
Max. print width	168 mm	
Max. print length	14,732 mm (580")	6,604 mm (260")
Enclosure	Die-cast print mechanism with la	•
Physical dimension	357 mm (W) x 313 mi 14.05" (W) x 12.32	
Weight	17.8 kg (3	9.24 lbs)
Label roll capacity	208.3 mm (8.2") O.D.
Internal rewinder (full roll)	Internal rewinder kit (5"	O.D.) (dealer option)
Ribbon capacity	450 meter long, max. OD 81 mm, 1"	i i i i i i i i i i i i i i i i i i i
Ribbon width	50.8 mm ~ 178	
Processor	32-bit RIS	SC CPU
Memory	 512MB Flash memory 256MB SDRAM microSD Flash memory card reader for Flash memory 	emory expansion, up to 32 GB
Interface	 RS-232 Parallel USB 2.0 (High speed mode) Internal Ethernet, 10/100 Mbps USB host *2 (Front side), for scanner or PC keyk GPIO (DB15F) (dealer option) Slot-in 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 	poard
Power	 Auto sensing power supply Input: AC 100-240V, 4-2A, 50-60Hz Total 243W 	
LCD display/ Operation buttons	 Multi-language selectable 6 operation buttons (menu, select, up, down, left 1 LED (with 2 LEDs Green & Red) 	/pause, right/feed)
LCD	• 4.3" color display , 480 x 272 pixel; Resistive tou	ch screen

Sensors	 Gap transmissive sensor (Position adjustable) Black mark reflective sensor (Bottom black mark sensor, Position adjustable) Ribbon end sensor Ribbon encoder sensor Head open sensor
Real time clock	Standard
Internal font	 8 alpha-numeric bitmap fonts Monotype Imaging[®] CG Triumvirate Bold Condensed scalable font
Bar code	 1D bar code: Code 39, Code 93, Code128UCC, Code128 subsets A.B.C, Codabar, Interleave 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN and UPC 2(5) digits add-on, MSI, PLESSEY, POSTNET, RSS-Stacked, GS1 DataBar, Code 11, China Post 2D bar code: PDF-417, Maxicode, DataMatrix, QR code, Aztec
Font & bar code rotation	0, 90, 180, 270 degree
Command set	TSPL-EZD (Compatible to EPL, ZPL, ZPL II, DPL)
Media type	Continuous, die-cut, black mark (Bottom side black mark only), fan-fold, notch (outside wound)
Media width	50.8 ~ 172.7 mm (2" ~ 6.8")
Media thickness	0.06 ~ 0.268 mm (2.36~ 11.02 mil)
Media core diameter	3.81 mm / 76.2 mm (1.5"/ 3")
Label length	10 ~ 14,732 mm (0.39" ~ 580") 10 ~ 6,604 mm (0.39" ~ 260")
Environment condition	Operation: 0~ 40°C (32 ~ 104°F), 25~85% non-condensing Storage: -40 ~ 60 °C (-40 ~ 140°F), 10~90% non-condensing
Safety regulation	FCC Class A, CE Class A, RCM Class A, UL, cUL, TÜV, CCC, KC, BIS, BSMI, EAC, Argentina S mark, Mexico CoC, ENERGY STAR®
Environmental concern	Comply with RoHS, WEEE
Dealer option	 GPIO Card (DB15F) Heavy duty cutter (full cut)/ Regular guillotine cutter (Max.4ips) 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module (including slot-in housing) Peel-off kit Internal rewinding kit (5" O.D.)
User option	 802.11 a/b/g/n/ac Wi-Fi + BT combo module (for Wi-Fi ready with re-installed Wi-Fi slot-in housing) KP-200 Plus keyboard display unit

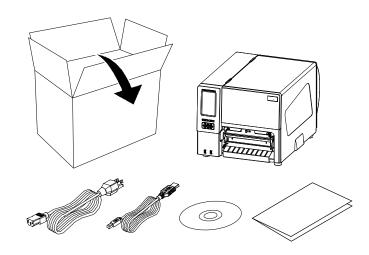
2. Operation Overview

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
- Windows labeling software CD disk
- 1 Quick installation guide
- 1 Power cord
- 1 USB interface cable



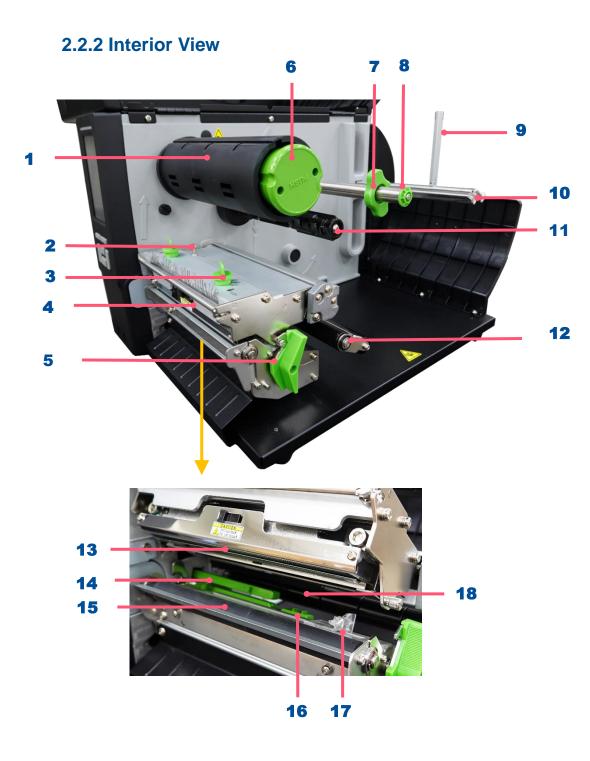
- If any parts are missing, please contact the Customer Service Department of your purchased reseller or distributor.

2.2 Printer Overview

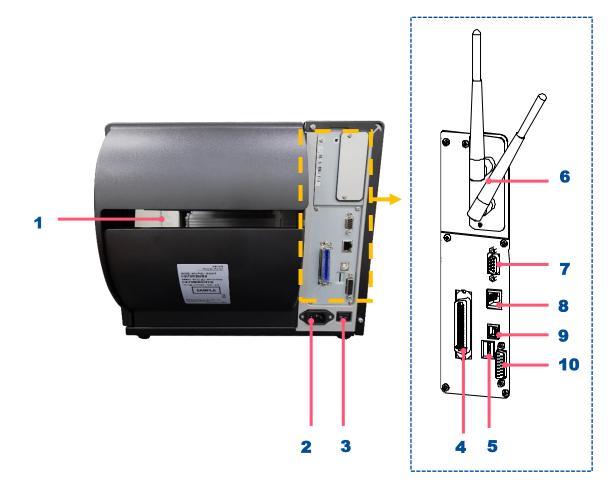
2.2.1 Front View



- **1.** LED indicator
- 2. LCD display
- **3.** Front panel buttons
- 4. USB host x 2
- **5.** Media view window
- 6. Paper exit chute
- 7. Media cover



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



- **1.** External label entrance chute
- **2.** Power cord socket
- 3. Power switch
- 4. Centronics interface
- 5. SD card socket
- 6. Slot-in Wi-Fi module (Option)
- 7. RS-232C interface
- 8. Ethernet interface
- 9. USB interface
- **10.** GPIO interface (Option)

Note:

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

2.3 Operator Control



2.3.1 LED Indication and Keypads

LED color indication:

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

Keypads:

Keypads form	Item name	Function
	Select keys	Feed, Pause, Comfirm, Cancel.
	Navigational keys	Select / Navigate.

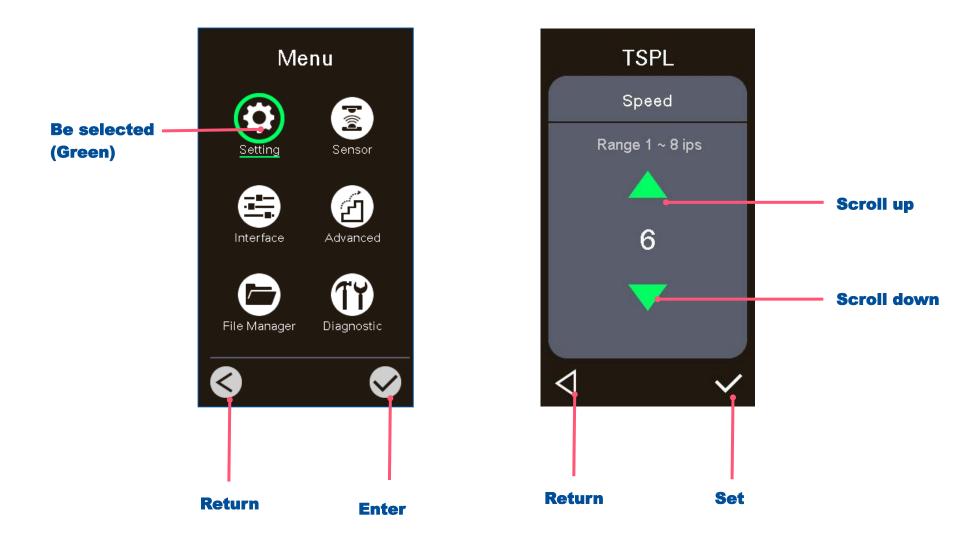
LCD/LED Icon Indication:

Main Page Icon

Icon	Indication
	Wi-Fi device is ready
1	Ethernet is connected
*	Bluetooth device is ready
0 .0	Remaining amount of ribbon(m)
Ο	Media capacity (%) notice
7-	TPH cleaning.notice
	Enter the menu
\oplus	Calibrate the media sensor
	Enter the "Favorites" option
	Enter cursor (be marked in green) located option
	Feed button (advance one label)
	Scroll up button
	Scroll down button

2.3.2 Touch Screen Manipulation

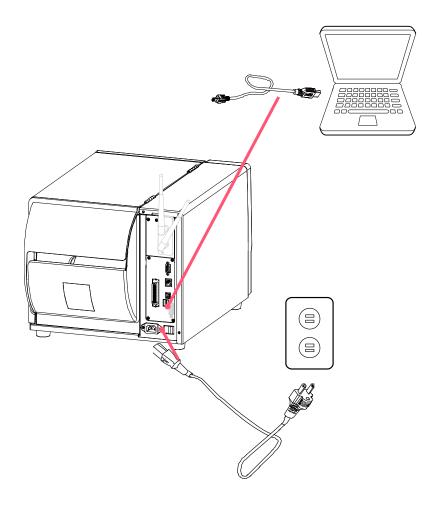
Tap an item to open/use it.



3. Setup

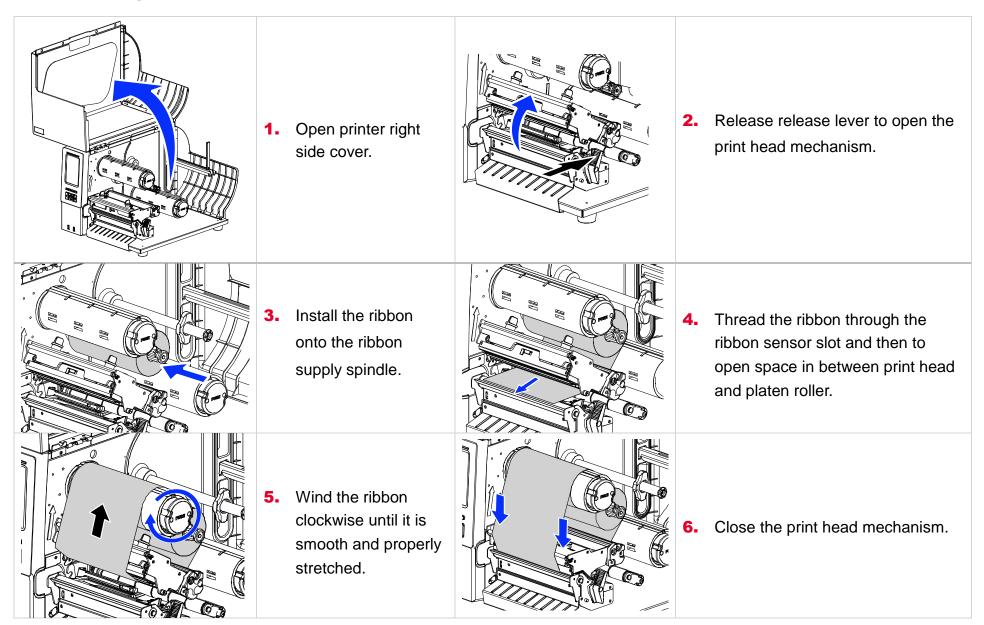
3.1 Setting up the printer

- 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.

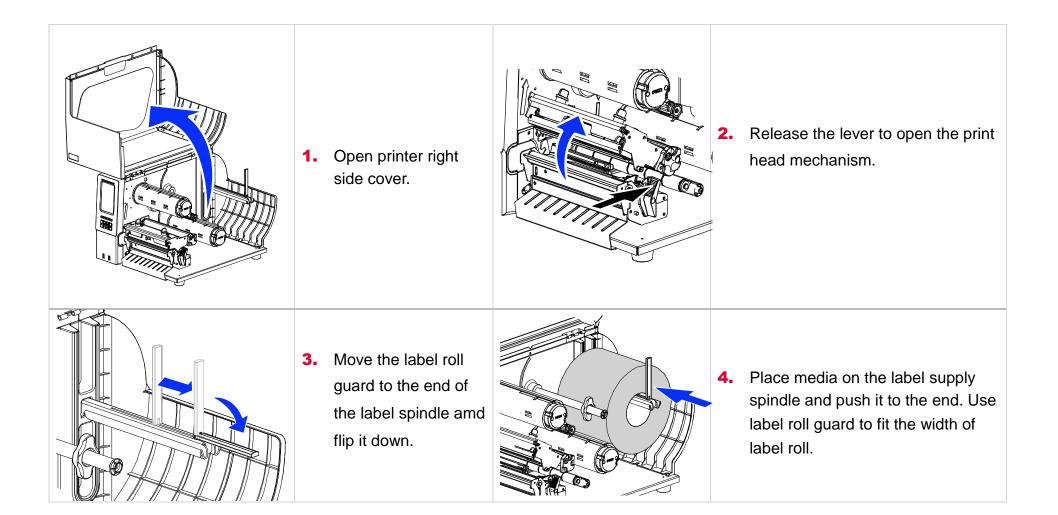


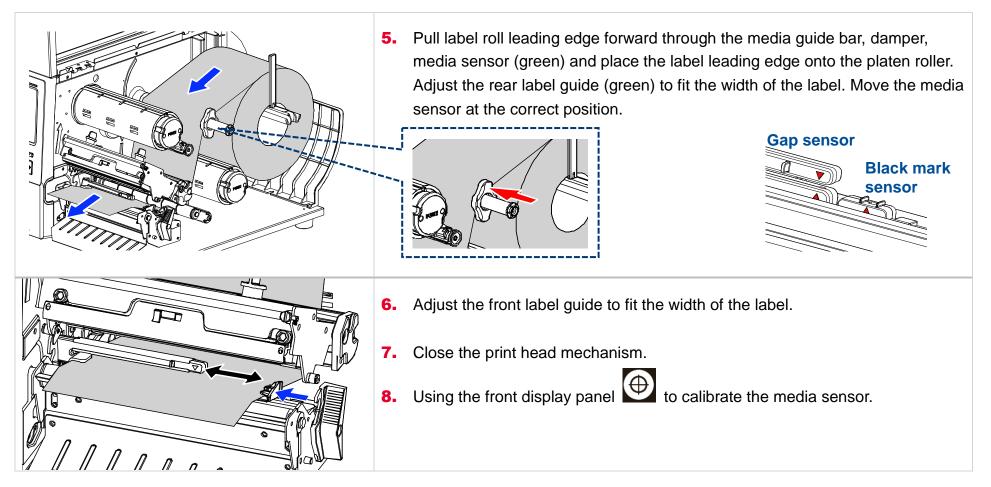
• Note: Please switch OFF the printer before plugging in the power cord to printer power jack.

3.2 Loading the Ribbon

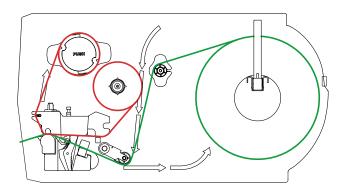


3.3 Loading the Media

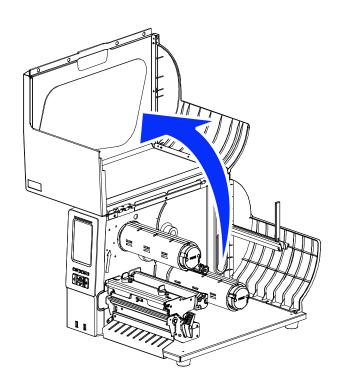




Loading path for media & ribbon



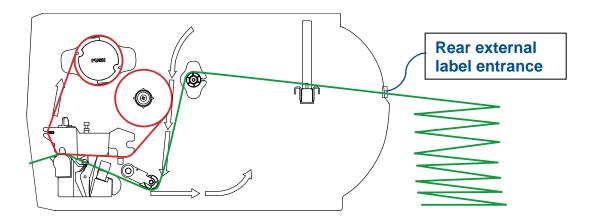
3.4 Loading the Fanfold/External Media



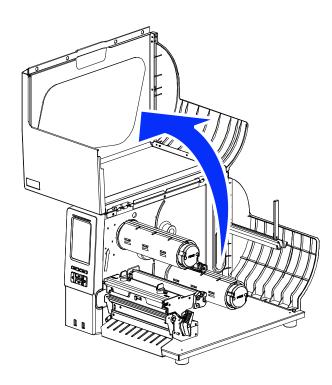
- **1.** Open the right side cover of the printer.
- **2.** Insert the fanfold media through the rear external label entrance chute.
- **3.** Refer 3.3 to load the media.
- **4.** Use the front panel to make calibration.

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

Loading path for fan-fold labels



3.5 Loading Media in Peel-off Mode (Option)



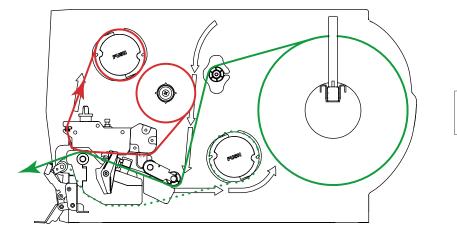
- **1.** Open the right side cover of the printer.
- **2.** Using the front display to calibrate the media.
- 3. Enter the **Menu** to set peeler mode.

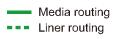
(Menu \rightarrow Setting \rightarrow Print Mode \rightarrow Peeler Mode)

- **4.** Open print head release lever to pull approximately 650mm of label through the front of the printer and remove some labels.
- 5. Open the peeler off cover. Feed the liner between peel-off roller and platen roller.
- **6.** Wrap the label onto the internal rewind spindle and wind the spindle counterclockwise until the liner is properly stretched.
- **7.** Close the peeler off cover and the print head mechanism.
- 8. Peeling will automatically start. Press the FEED button to test.

Please calibrate the gap/black mark sensor before loading media in peel-off mode to avoid paper jam. Please calibrate the gap/black mark sensor when changing media.

Loading path for peeler mode





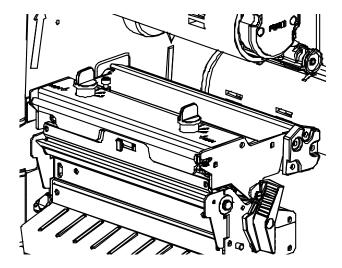
4. Adjustment Knob

Print Head Pressure Adjustment Knob has 5 levels' adjustment. Different number means different pressure to the medias. Due to media is aligned to the inbound of the printer mechanism, different media width requires the different pressure. Users can try which level can meet their expectation.

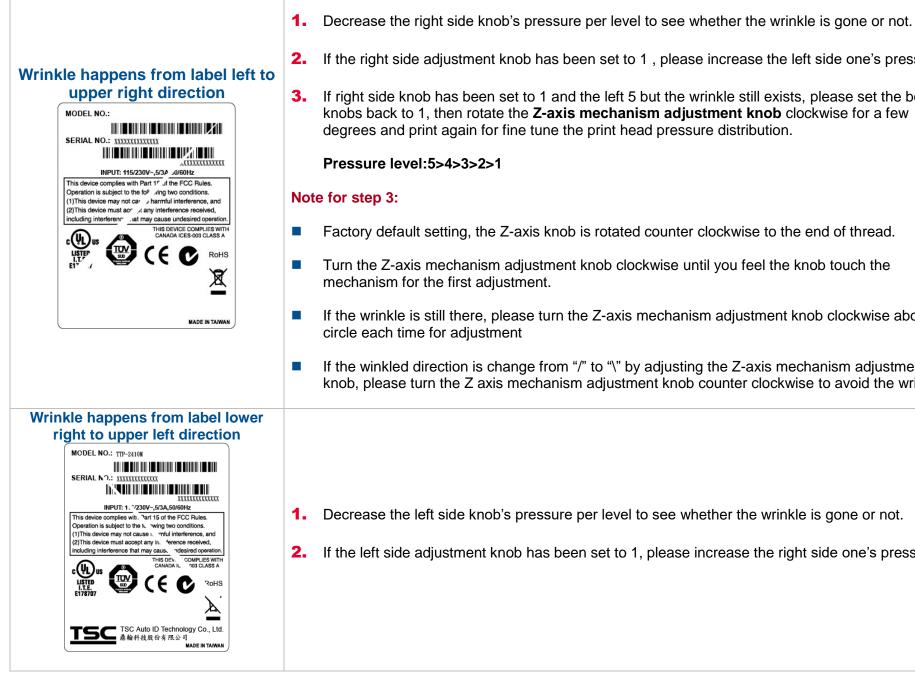
- If the label width is 4", adjust both print head pressure to the same level.
- If the label is less than 2" wide, increase the pressure of left adjustment knob and decrease the right side pressure by to level 1.

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.







- If the right side adjustment knob has been set to 1, please increase the left side one's pressure.
- If right side knob has been set to 1 and the left 5 but the wrinkle still exists, please set the both knobs back to 1, then rotate the Z-axis mechanism adjustment knob clockwise for a few degrees and print again for fine tune the print head pressure distribution.

- Factory default setting, the Z-axis knob is rotated counter clockwise to the end of thread.
- Turn the Z-axis mechanism adjustment knob clockwise until you feel the knob touch the
- If the wrinkle is still there, please turn the Z-axis mechanism adjustment knob clockwise about 1/4
- If the winkled direction is change from "/" to "\" by adjusting the Z-axis mechanism adjustment knob, please turn the Z axis mechanism adjustment knob counter clockwise to avoid the wrinkle.

- Decrease the left side knob's pressure per level to see whether the wrinkle is gone or not.
- If the left side adjustment knob has been set to 1, please increase the right side one's pressure.

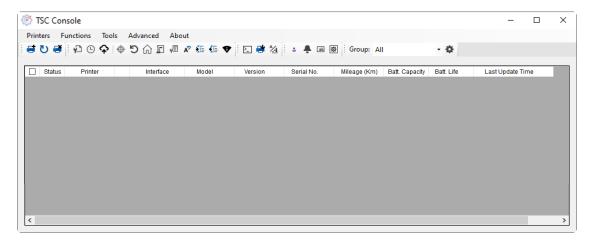
5. TSC Console

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.

Printers Functions Tools Advanced About					_	>
Status Printer Interface Model	A/ :					
		Group: All	- 4			
	Version S	Serial Mileage	Batt. Capacity Bat	tt. Life	Last U	pd
	B1.23 EZD	0.0044		9/1	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.

🖉 TS	C Console	:									_		\times
Printe	ers Fur	octions Tools	Advar	nced About									
े 🖨 🕻	ט 🗃 🗄	₽ 0 ♠ ⊕	5	n 🔄 🖉 🗚 👫	🖶 🕈 🗄 🗈 🗳	1/4 🕴 🔺 🖿	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.

nter Configuration				×	<				
inter Configuration Emu	lation TPH Care Smart I	Battery		Unit inch 🗸					
Printer Function	Printer Configuration								
Calibration	Version: Serial No.:	MH59280311	TPH Serial Number:	N/A					
RTC Setup	Checksum: Ribbon Remaining:	09B5C28C	TPH Odometer: Cutter Serial Numbe	N/A n/A					
Factory Default	Label Count: Cutting Counter:	1422 18 18 Res	et			Common RS-232 Bluetoo	oth Wi-Fi Ethernet SMTP S	SNTP	
Reset Printer	Mileage (Km):	0.2791 0.0104 Res				0.01100	0.00-10-10		
Print Test Page	Common RS-232 I Speed:	Bluetooth Wi-Fi Ethernet	SMTP SNTP Ribbon:	ON ~		DHCP IP Address:	O Static IP		
Configuration Page	Density:	8 ~	Ribbon Sensor: Ribbon Encoder Err.:	ON ~		Subnet Mask:	255.255.255.0	Set	
Dump Text	Paper Width: Paper Height:	4.00 inch 4.00 inch	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:		Set	
Enter Line Mode	Reference: Direction:	0 0 0	Bline Inten.: Continuous Inten.:	2		Secondary DNS IP:		Set	
Wi-Fi Default	Offset: Shift X:	0 dot 0 dot	Threshold Detection: Print Quality:	AUTO ~		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:	(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.

dd Printers			×	Add Network Printers	
		ں ح	ر	 Broadcast: IP Address: Subnet: 	10.0.10.181
				First IP Address	Last IP Address
О СОМ	COM1		*	10.0.10.1	10.0.10.100
	LPT1	\sim			
Network	k				Discover
	OK			Printer firmware version befor can only be discovered throug	

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

×	🍥 TSC Console					- 0	×
	Printers Functions Tools A	dvanced About					
Add 1 printers	i 🖶 🕐 🖷 i 🗗 🕒 💠 i 🖶 🕻	D 🞧 🗐 🦧 👫 🌆 🗍 🖸	📑 🏂 🔹 🌲 📷 🕸 🛛 Group:	All 🝷 🌩			
			A A				
	Status Printer	Interface Model	Version Serial No.	Mileage (Km) Batt. Capacity	Batt. Life	Last Update Time	
ОК	□ 💡 PS-E0122A	₩ USB	MH59280311	0.2791	08	8/10/2021 15:11:24	
	PS-E0122A	↔ 10.0.10.181	MH59280311	0.2791	08	8/10/2021 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 Image: Status Image: Status Image: Status Ima
 Click Get to receive printer's information. Click Wi-Fi to the wi-fi setting page. 	Printer Configuration Thinter Configuration Printer Configuration Printer Configuration Printer Function Printer Configuration Calibration Printer Configuration Printer Configuration Printer Configuration Printer Configuration Printer Configuration Printer Configuration Printer Configuration Printer Configuration Printer Configuration Print Test Page Domore Re-232 Dump Text Deskty: Paper Width: 298 Dump Text Paper Width: Paper Width: 298 Dump Text Paper Width: Paper Width: 298 Dump Text Paper Width: Paper Width: 298 Direction: Continuous inten:: Gap: 000 00 Nit N: 0 0 Offset 0 0 Shit X: 0 0 Offset 0 0 Shit Y: 0 0 Outing Code: 0 0 Outing Code: 0 0<

For WPA-Personal

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

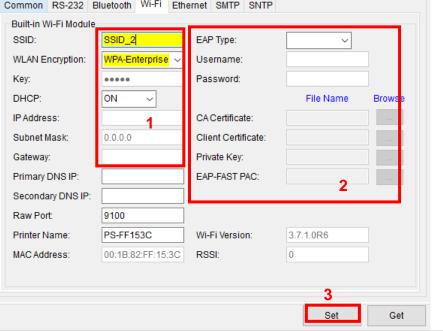
- Fill-in the SSID. Ι.
- Select the Encryption option to **WPA2-Enterprise**. н.
- III. Select DHCP to ON (For OFF option, please fill-in the IP Address, Subnet Mask and Gateway)
- **IV.** Select the **EAP Type** option. (For **EAP-TLS** option, please upload the CA and Key for mutual authentication, 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.

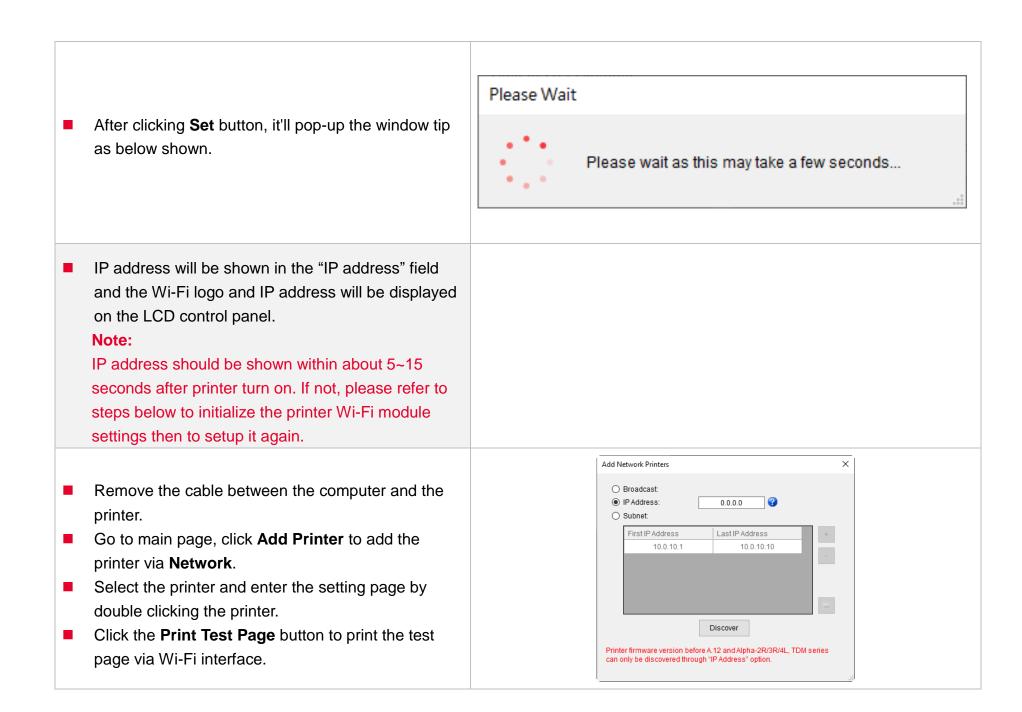
On DHCP, user can change the printer name by another model name in "Printer Name" field.

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

Built-in Wi-Fi Modul	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:15:30	RSSI:	0	
			2 Set	Get
	luetooth Wi-Fi Eth	ernet SMTP SNTP		Get
uilt-in Wi-Fi Module	luetooth Wi-Fi Eth	ernet SMTP SNTP		Get
uilt-in Wi-Fi Module SID:				Get
uilt-in Wi-Fi Module SID: 'LAN Encryption:	SSID_2	EAP Type:		Get
uilt-in Wi-Fi Module SID: /LAN Encryption: ey:	SSID_2 WPA-Enterprise ~	EAP Type: Username:		Get
uilt-in Wi-Fi Module SID: /LAN Encryption: ey: HCP:	SSID_2 WPA-Enterprise ~	EAP Type: Username:	Set	
mmon RS-232 B uilt-in Wi-Fi Module ISID: VLAN Encryption: Iey: IHCP: PAddress: subnet Mask:	SSID_2 WPA-Enterprise ~	EAP Type: Username: Password:	Set	
uilt-in Wi-Fi Module SID: /LAN Encryption: ey: HCP: / Address: ubnet Mask:	SSID_2 WPA-Enterprise ~ ••••• ON ~ 1	EAP Type: Username: Password: CA Certificate:	Set	
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:	Set	
uilt-in Wi-Fi Module SID: /LAN Encryption: ey: HCP: PAddress: 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	



25

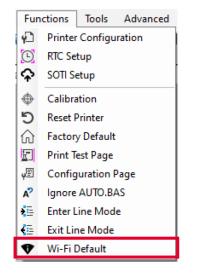


5.4 Initialize the Printer WiFi Setting

1. Return to the main page of TSC Console.

۲	TSC Conso	le									- 0) ×
Pr	inters Fu	inctions Tools	Adv	anced About								
•	0	000	5	🖓 🖾 🖉 🖉 🕼	€♥ 🖸	* 🖄 🕴 🔹 🐥 📾	Group:	All	• •			
	-									-		_
6	Status	Printer		Interface	Model	Version	Serial No.	Mileage (Km)	Batt. Capacity	Batt. Life	Last Update Time	
E	2 📿	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 Printer	Mileage (Km):	0.0913 0.0913	Reset		
	Common RS-232	Bluetooth Wi-Fi Ether	rnet SMTF	SNTP	
Print Test Page	Speed:	3		bbon:	OFF V
Configuration Page	Density:	8 ~		bbon Sensor:	OFF V
Configuration Page	Paper Width:	104.00 mm		bon Encoder Err.:	OFF V
Dump Text	Paper Height:	74.05 mm		ad-up Sensor:	ON V
	Media Sensor:	Black Mark		print After Error:	ON V
Ignore AUTO.BAS		1.99 0.00		iximum Length:	152.25 mm
Exit Line Mode	Post-Print Action:	~		p Inten.:	7
	Reference:			ne Inten.:	7
Enter Line Mode	Direction:	OFF TEAR	Co	ntinuous Inten.:	4
Wi-Fi Default	Offset:	PEEL CUTTER	Jot Th	reshold Detection:	AUTO ~
WI-FI Delault	Shift X:	REWIND	Jot Pri	nt 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

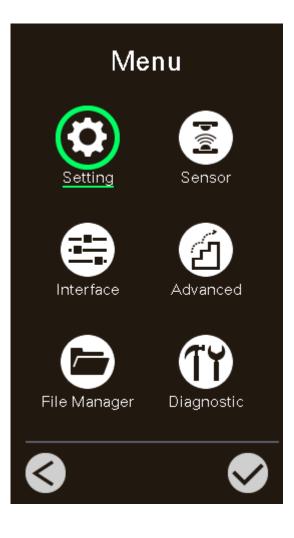
By touch display:

Tap the (Menu) icon on LCD main page to enter the menu.

By Keys:

Use navigational keys to select the (Menu) icon (be marked in green)

and press the left soft key button (means \checkmark) to enter the menu.



6.2 Menu Overview

There are 6 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.



Setting : To set up the printer settings for TSPL & ZPL2.



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



Sensor : To calibrate the selected media sensor.



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



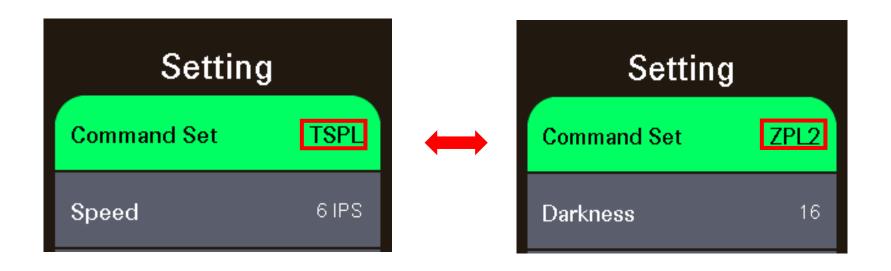
Interface : To set the printer interface settings.



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

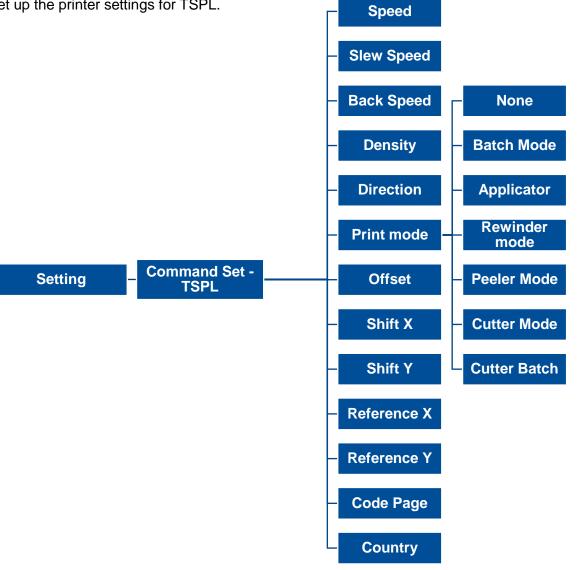
6.3 Setting

Tap the **Command Set** on LCD to switch between TSPL and ZPL2. **Command Set** can also be activated by **Navigational Keys**.



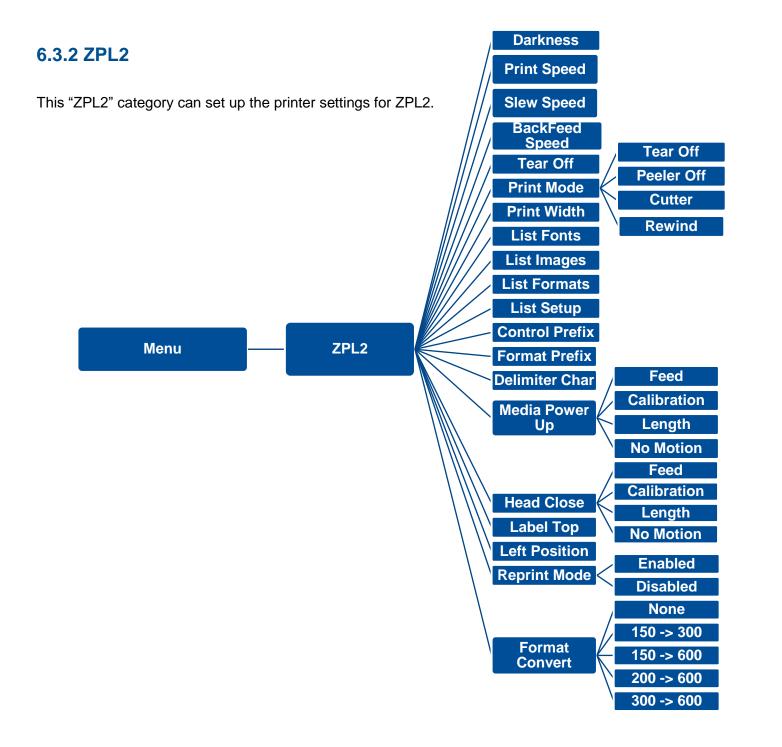
6.3.1 TSPL

TSPL category can set up the printer settings for TSPL.



Item	Description	Default
Speed	Set the print speed	203 dpi: 6 300 dpi: 4
Slew Speed	Set feed speed	
Back Speed	Set back speed	2
Density	Set printing darkness. Setting range: 0 to 15, and the step is 1.	8
Direction	Set the printout direction. Setting Value: 0 and 1. Direction 0:	0
Print mode	Set the print mode. There are 6 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. Rewinder Mode: Enable the label rewinder mode. Applicator: The printer prints a label when it receives a signal from the applicator.	
Offset	Adjust media stop location. Available value setting range: -999 dots to 999 dots. 0 dot	
Shift X	Adjust print position. Available value setting range: -999 dots to 999 dots.	0 dot
Shift Y		0 dot 0 dot
Reference X Reference Y	Set the origin of printer coordinate system horizontally and vertically. Available setting range: 0 dot to 999 dots.	
Code page	Set the code page of international character set. 850	
Country	Set the country code	

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

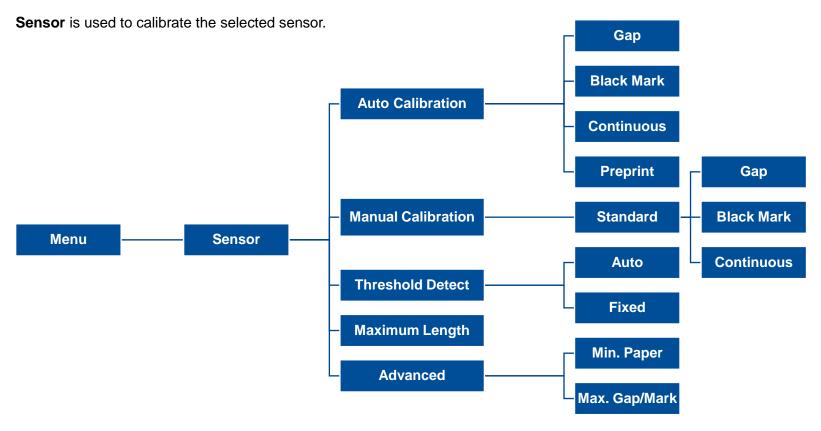


ltem	Description	Default
Density	Set the printing darkness. Available setting range: 0 to 30. 16	
Print Speed	Set the print speed. Available setting range is 2~18 for 203dpi and 2~14 for 300dpi; 1.5~6 for 300dpi	203 dpi: 6 300 dpi: 4
Slew Speed	Set feed speed 203 dpi: 300 dpi:	
Back Speed Tear Off	Set back speed Adjust media stop location. Available setting value range: -120~120 dots.	2 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 Rewind: Enable the label rewind mode Applicator: The printer prints a label when it receives a signal from the applicator. 	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.	7E(~)
Format Prefix	Set format prefix character.	5E(^)
Delimiter Char	Set delimiter character.	2C(,)

	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.

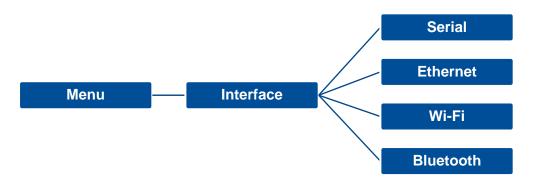
6.4 Sensor



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.	762 mm
Advanced Set the minimum paper length and maximum gap/bline length for auto-calibration.	0 mm

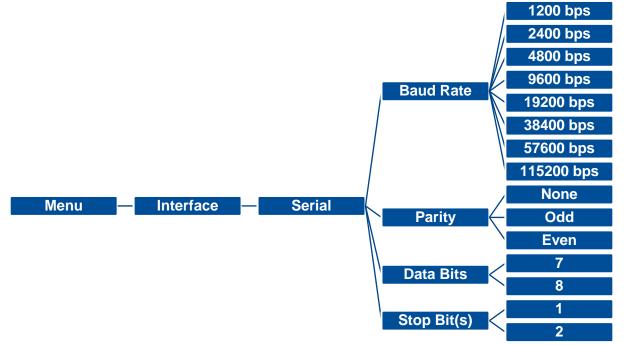
6.5 Interface

Interface can set the printer interface settings.



6.5.1 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

6.5.2 Ehernet

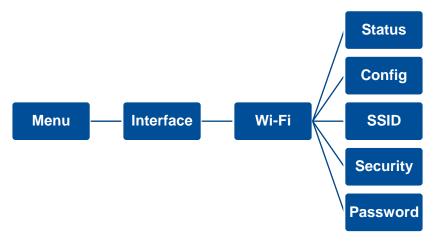
Ethernet configures internal Ethernet configuration and checks the printer's Ethernet module status, and reset the Ethernet module.



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

6.5.3 Wi-Fi

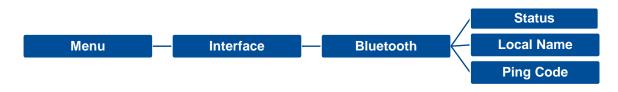
Wi-Fi can set the printer Wi-Fi settings.



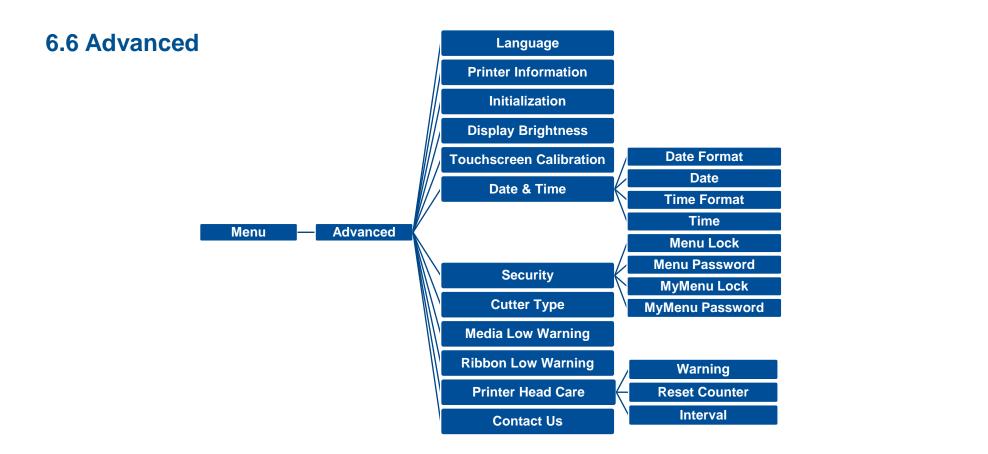
Item	Description	Default
Status	Check the Wi-Fi IP address, MAC setting status,etc.	N/A
Config.	DHCP: ON/OFF the DHCP (Dynamic Host Configuration Protocol) networkprotocol. Static IP: Set the printer's IP address, subnet mask and gateway.	DHCP
SSID	Set Wi-Fi SSID.	N/A
Security	Set Wi-Fi security.	Open
Password	Set Wi-Fi password.	N/A

6.5.4 Bluetooth

Bluetooth can set the printer Bluetooth settings.



Item	Description	Default
Status	Check the Bluetooth status.	N/A
Local Name	Set the local name for Bluetooth.	N/A
Ping Code	Set the local ping code for Bluetooth.	0000



Item	Description	Default
Language	Switch the language on display.	English
Printer Information	Check the printer's serial number, printed mileage (m), printed labels (pcs) and cutting counter.	N/A
Initialization	Restore printer settings to defaults.	N/A
Display Brightness	Set the brightness for display. Range: 0~100.	50
Touchscreen Calibration	Calibrate the touchscreen for best result.	N/A

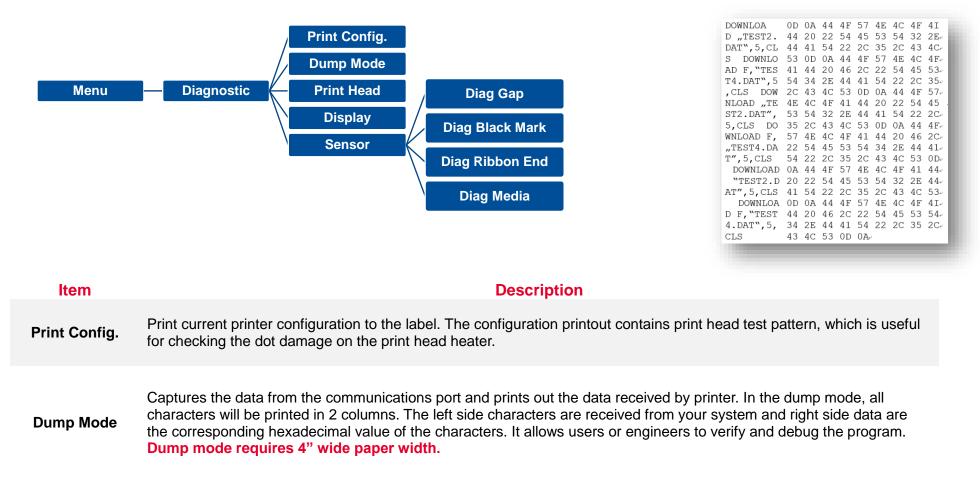
Date & Time	Setup the date and time on display.	N/A
Security	Set the password for locking the menu or favorites. The default password is 8888.	Disable
Cutter Type	Set the cutter type.	Guillotine
Media Low Warning	Set the warning for media low %. if setting value is 10%, media capacity was lower than 10%, the 💿 % will be shown in red.	10%
Ribbon Low Warning	Set the warning for ribbon low. For example, if setting value is 30m, when ribbon capacity was lower than 30m, the o will be shown in red.	30M
Printer Head Maintn	Check print head status and to set the settings for print head care. Warning: Enable/disable the print head clean warning. If enable this feature, once print head has been reached the setting mileage then the warning icon will be shown on printer UI for reminding user to clean the print head. The default setting is disable. Reset Counter: Reset the print head clean warning mileage after cleaning print head. Interval: This item is used to set the expected mileage for reminding user to clean the print head. You have to enable the "TPH warning lock" for use. The default setting is 1 km.	N/A
Contact us	Check the contact information for tech support service	N/A

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

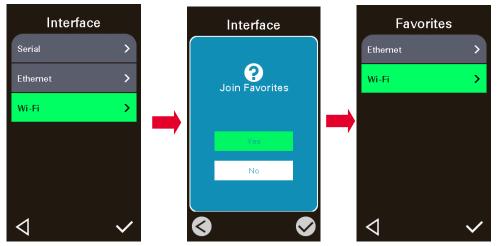


Print Head	Check print head's temperature and bad dots.
Display	Check LCD's color state.
Sensor	Check sensors intensity and reading state.

6.9 Favorites

Favorites helps users build a commomly used list. Arrange the commonly used setting options by **Favorites**

Add items: Touch and hold the item > window of Join Favorites will pop up > tap Yes to add the item to Favorites.



Delete items: Touch and hold the item > window of **Delete Favorites** will pop up > tap **Yes** to delete the item.



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	The power switch is closed.	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 Drinting	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.
No print on the label	Label or ribbon is loaded not correctly.	Ribbon and media are not compatible.
No print on the laber	 Use wrong type paper or ribbon 	Verify the ribbon-inked side.
		The print density setting is incorrect.
No Ribbon	Running out of ribbon.	Supply a new ribbon roll.
NO RIDDON	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 princhead. 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 edge 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.
LCD panel is dark but the LEDs are light	The printer initialization is unsuccessful.	Turn OFF and ON the printer again.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

Note:

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

CE

EN 55032, Class A EN 55024 EN 55035

EN 62368-1

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 part 15B, Class A ICES-003, Class A

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.

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.



AS/NZS CISPR 22, Class A



UL 60950-1 (2nd Edition) CSA C22.2 No. 60950-1-07 (2nd Edition) UL 62368-1, 2nd Edition CAN/CSA C22.2 No. 62368-1-14, 2nd Edition

Energy Star for Imaging Equipment Version 3.0

Energy STAR

Mexico Registration



R

UL 60950-1 EN 62368-1 KN 32 KN 35 KN 60950-1



이 기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며,

가정외의 지역에서 사용하는 것을 목적으로 합니다.

GB 4943.1 GB 9254, Class A

GB 17625.1

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。

8	IS 13252(Part 1)/ IEC 60950-1
EHE	TP TC 004 TP TC 020
9	CNS 13438 CNS 14336-1 CNS 15663
W (S)	IEC 60950-1

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:

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.

Hot surface for printhead. Do not touch the printhead before it cooling.

WARNING:

Remove the power from AC inlet before opening the media cover for cleaning or repairing faults. After cleaning or fixing faults, media cover closing before power connecting to AC inlet.

CAUTION:

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

CE Statement:

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

All operational modes: 2.4GHz: 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40) 5GHz: 802.11a, 802.11ac. The frequency, mode and the maximum transmitted power in EU are listed below: 2412 MHz – 2472 MHz: 19.72 dBm (EIRP)(Wi-Fi) 5180 MHz – 5700 MHz: 22.5 dBm (EIRP)(Wi-Fi) 2402 MHz – 2480 MHz: 7.4 dBm (EIRP)(Bluetooth) 2402 MHz – 2480 MHz: 2.35 dBm (EIRP)(Bluetooth-BLE)

Requirements in

AT/BE/BG/CZ/DK/EE/FR/DE/IS/IE/IT/EL/ES/CY/LV/LI/LT/LU/HU/MT/NL/NO/PL/PT/RO/SI/SK/TR/FI/SE/CH/UK/HR.

5150MHz~5350MHz is for indoor use only.

5150-5350MHz for Only indoor use

5470-5725MHz for indoor/outdoor use



Restrictions In AZE

National restrictions information is provided below

Frequency Band	Country	Remark
5150-5350MHz	Azerbaijan	No license needed if used indoor and
5470-5725MHz		power not exceeding 30mW

Hereby, TSC Auto ID Technology Co., Ltd. declares that the radio equipment type [Wi-Fi] IEEE 802.11 a/b/g/n/ac is in compliance with Directive 2014/53/EU

The full text of the EU declaration of conformity is available at the following internet address:

http://www.tscprinters.com/cms/theme/index-39.html

Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

Canada, avis de l'Industry Canada (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-210. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

NCC 警語:

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。(即

低功率電波輻射性電機管理辦法第十二條)

低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。

前項合法通信,指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干

擾。(即低功率電波輻射性電機管理辦法第十四條)

BSMI Class A 警語:

這是甲類的資訊產品,在居住的環境使用中時,可能會造成射頻干擾,在這種情況下,使用者會被要求採取某些適當的對策。

	限用物質及其化學符號 Restricted substances and its chemical symbols					
單元Unit	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
內外塑膠件	0	0	0	0	0	0
內外鐵件	-	0	0	0	0	0
滾輪	0	0	0	0	0	0
銘版	0	0	0	0	0	0
電路板	-	0	0	0	0	0
晶片電阻	-	0	0	0	0	0
積層陶瓷表面黏著電容	0	0	0	0	0	0
集成電路-IC	-	0	0	0	0	0
電源供應器	0	0	0	0	0	0
印字頭	-	0	0	0	0	0
馬達	-	0	0	0	0	0
液晶顯示器	-	0	0	0	0	0
插座	-	0	0	0	0	0
	-	0	0 田物質之百分比会	0	0	0

備考 1. "超出 0.1 wt %"及"超出 0.01 wt %"係指限用物質之百分比含量超出百分比含量基準值。

Note 1 : "Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考 2. "○"係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2 : "0" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考 3. "-" 係指該項限用物質為排除項目。

Note 3 : The "-" indicates that the restricted substance corresponds to the exemption.

10. Revise History

Date

Content

Editor

