



MB240 Series

■ Thermal Transfer ■ Direct Thermal

Industrial Barcode Printers



Series Lists: MB240/MB340 MB240T/MB340T

User Manual

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1. Introduction

TSC MB240 series of industrial thermal label printers is the new value leader for 4" wide light industrial label printing. The MB240 features a small footprint, easily understandable operator interface and a full set of options to meet nearly every printing application. Its compact design, quiet operation and fast label throughput is equally at home, in the office or on the shop floor. The printer's all-metal construction and die-cast aluminum print mechanism engine is durable enough to withstand the toughest production environments and is designed for years of trouble free use.

This manual provides the essential information and clear instructions for operating MB240 series. To print label formats, please refer to the instructions provided with your labeling software.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 https://www.tscprinters.com

Applications

- Work In Process
- Product Marking
- Compliance Labeling
- Industrial-Duty Printing
- Packing
- Order Fulfillment
- Shipping/Receiving
- Inventory Management Retail
- Product Label
- Event Ticketing

1.1 Product Specification

1.1.1 Product standard feature

Model	MB240	MB340		MB240T	MB340T
Resolution	203 dots/inch (8 dots/mm)	300 dots/inch (12 dots/mm)		203 dots/inch (8 dots/mm)	300 dots/inch (12 dots/mm)
Printing method		Therma	al transfe	r & direct thermal	
Mechanism	Die-cast base and fram	me/ Metal cover with two l	ninges &	large clear media view wi	ndow
LCD display/ Operation buttons	 No display/ 2 operation buttons (Pause and Feed) 3 color LED for notification light bar 4 indication LEDs for the status of head open, ribbon, label ,and RF connection 		■ 3 ■ 6 r	4 languages selectable 3.5" color touch display, H 5 operation buttons (menu ight) 3 color LED	VGA 320 x 480 pixel , feed/pause, up, down, left,
Processor	32-bit RISC high performance processor				
Memory	128MB Flash me128MB DRAM	mory			
Interface	■ RS-232 (Max. 11)	print server (10/100 Mbps	,		
Sensors	Gap transmissive	e sensor (Position adjusta ctive sensor (Position adju sensor	ble, 5 mn	,	

	Head open sensor
Internal font	 8 alpha-numeric bitmap fonts One Monotype Imaging® CG Triumvirate Bold Condensed scalable font Built-in Monotype True Type Font engine
Command set	TSPL-EZD [™]
Font & bar code rotation	0, 90, 180, 270 degree
Others	 Standard for real time clock Standard for buzzer Standard industry emulations right out of the box including Eltron®,Zebra®. Datamax® language supported Built-in Monotype True Type Font engine Downloadable fonts from PC to printer memory

1.1.2 Printer Optional Features

The printer offers the following optional features.

Product option feature	User option	Dealer option	Factory option
GPIO interface (Wi-Fi excluded)		V	V
Internal Bluetooth 4.2 MFi module in front panel			V
Note: Option for either Wi-Fi or Bluetooth only, not coexistence.			
Wi-Fi module kit		V	V
Note: Option for either Wi-Fi or Bluetooth only, not coexistence.			
Wi-Fi module (with slot-in housing installed already)	V		
Note: Option for either Wi-Fi or Bluetooth only, not coexistence.			
Peel-off module assembly		V	V
(include internal liner rewinder)			
Minimum label peeling height: 1"			
Regular cutter (Guillotine cutter, max: 4 ips)		V	V
Media thickness: 0.06 ~ 0.28 mm			
Media type: receipt, tag, and label liner w/o glue			
5" O.D Full internal rewinding module		V	
KP-200 Plus keyboard display unit	V		
Print engine module (203 dpi/ 300 dpi)			V

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

1.1.3 Label Print Module Features (Optional)

The label print module offers the following features.

		MB240 Series	MB340 Series
	Resolution	8 dots/mm (203 dpi)	12 dots/mm (300 dpi)
	Max. print speed	254 mm (10")/second	177 mm (7")/second
Print Module	Max. print width	108 mm (4.25")	105.7mm (4.16")
Frint Module	Physical dimension		0 mm (L) x 190.0 mm (H) 61" (L) x 7.48" (H))
	Weight		(5.51 lbs)
	Memory	Ŭ	nory, 128 MB SDRAM
Platform	Interface	USB2.0, RS-232, Internal Et	hernet 10/100 Mbps, USB Host
Platform	Real time clock	Sta	Indard
	Buzzer	Sta	Indard
Power Supply	Input	AC 100-240	V, 2A, 50-60Hz
Power Suppry	Output	ç	90W
	Media type	Continuous, die-cut, b	lack mark, fan-fold, notch
	Media wound type	Outsic	de wound
Supported Media	Media width	20 ~ 120 m	m (0.8" ~ 4.7")
	Min. media length	5 mr	m (0.2")
	Media thickness	0.06 ~ 0.28 m	m (2.36 ~ 11 mil)
	Ribbon type	WAX, RESI	N, WAX-RESIN
Support Ribbon	Wound type	Ink coated o	utside or inside
	Ribbon width	40 mm ~ 110	mm (1.6" ~ 4.3")
	 Ribbon capacity	450 m long, max.	OD 81.3 mm, 1" core
Accessory	GPIO board (DB15F) Peel off kit Cutter		

1.2 Printer Specifications

Model	MB240	MB340	MB240T	MB340T
Physical dimensions		248 (W)	x 274 (H) x 436 (D) mm	
Weight	ç).0 kg	9.:	2 kg
Power	•	⁻ supply (20% print ratio 240V, ~2.0A, 50-60Hz V, 3.75A; 90W		
Environmental condition		40°C (32 ~ 104°F), 25~ 60 °C (-40 ~ 140°F), 10		
Environmental concern	Comply with Energy	/ Star 2.0, REACH, Ro⊦	IS, and WEEE	

1.3 Print Specifications

Print Specifications	203 DPI Models	300 DPI Models
Print head resolution (dots per inch/mm)	203 dots/inch (8 dots/mm)	300 dots/inch (12 dots/mm)
Printing method	Thermal transfer	and direct thermal
Dot size (width x length)	0.125 x 0.125 mm (1 mm = 8 dots)	0.084 x 0.084 mm (1 mm = 12 dots)
Print speed (inches per second)	1,1.5,…10 ips Up to 10 ips	1,1.5,…7 ips Up to 7 ips
Max. print width	108 mm (4.25")	105.7 mm (4.16")
Max. print length	1000" (25,400 mm)	450" (11,430 mm)
Printout bias	Vertical: ~Max. 1 mm	. Horizontal: Max. 1 mm

1.4 Ribbon Specifications

Ribbon outside diameter	Max. 81.3 mm O.D.
Ribbon capacity	450 meter
Ribbon core	1" (25.4 mm)
Ribbon width	40 mm ~ 110 mm (0.157" ~ 4.33")
Ribbon wound type	Ink coated outside wound, ink coated inside wound

1.5 Media Specifications

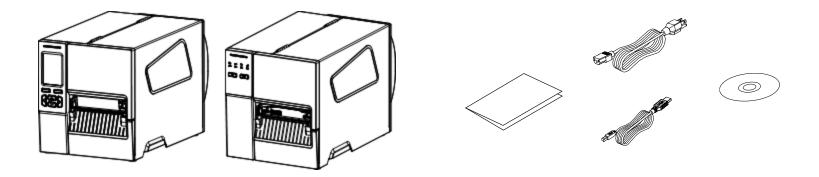
Media roll capacity	Max. 8" (203.2 mm) O.D.
Media core diameter	1"~ 3" (25.4 mm ~ 76.2 mm) I.D. core
Media type	Continuous, die-cut, black mark, fan-fold, notch
Media wound type	Outside wound
Media width	20 mm ~ 120 mm (0.79" ~ 4.72") (Cutter mode: max. 114 mm)
Media thickness	0.06 mm ~ 0.28 mm
Label length	■ 5 mm ~ 25,400 mm (203 dpi series) ■ 5 mm ~ 11,430 mm (300 dpi series)
Label length (peeler mode)	25.4mm ~ 152.4mm (1" ~ 6")
Label length (cutter mode)	■ 25.4~2,286 mm (1" ~ 90") 203dpi ■ 25.4~1016 mm (1" ~ 40") 300dpi
Black mark	Min. 8 mm (W) x Min. 2 mm (H)
Gap height	Min. 2 mm

2. Operation Overview

2.1 Unpacking and Inspection

This printer has been specially packaged to withstand damage during shipping. Please carefully inspect the packaging and printer. 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 Windows labeling software/Windows driver CD disk



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

MB240/MB240T Series

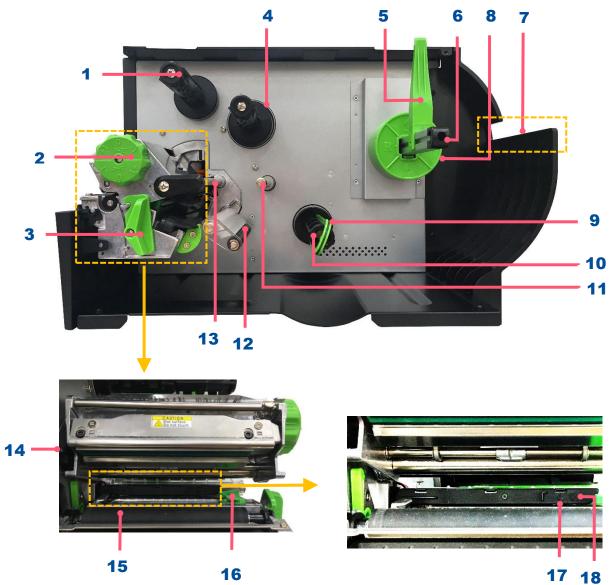


- 1. LED indicator
- 2. Icons and LED indicators
- 3. Pause button
- 4. Feed button
- 5. Media view window
- 6. Paper exit chute
- 7. Media cover handle

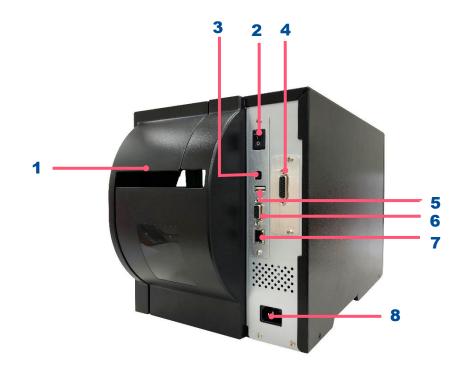


- 1. LED indicator
- 2. LCD touch display
- 3. Front panel buttons
- 4. Media view window
- 5. Paper exit chute
- 6. Media cover handle

2.2.2 Interior View



- **1.** Ribbon rewind spindle
- 2. Print head pressure adjustment knob
- 3. Print head release lever
- **4.** Ribbon supply spindle
- 5. Label roll guard
- 6. Label supply spindle
- 7. External label entrance chute
- 8. 3" core adapter
- **9.** Liner securing clip (Optional kit of Peel-off module ass'y)
- **10.** Liner rewind spindle (Optional kit of Peel-off module ass'y)
- **11.** Media guide bar (Optional kit of Peel-off module ass'y)
- 12. Damper
- **13.** Ribbon end sensor
- 14. Print head
- **15.** Front label guide
- **16.** Platen roller
- **17.** Black mark sensor (shown as \downarrow)
- **18.** Gap sensor (shown as \bigtriangledown)

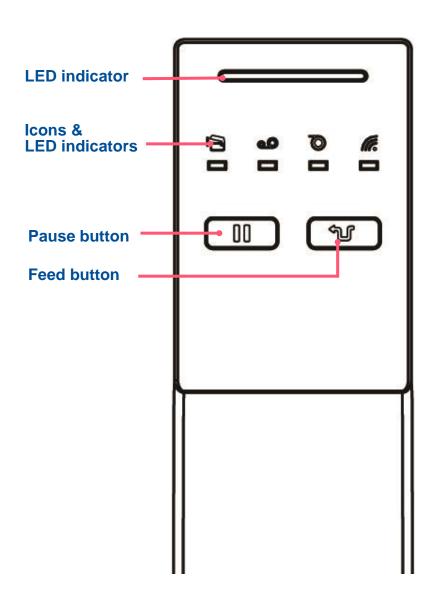


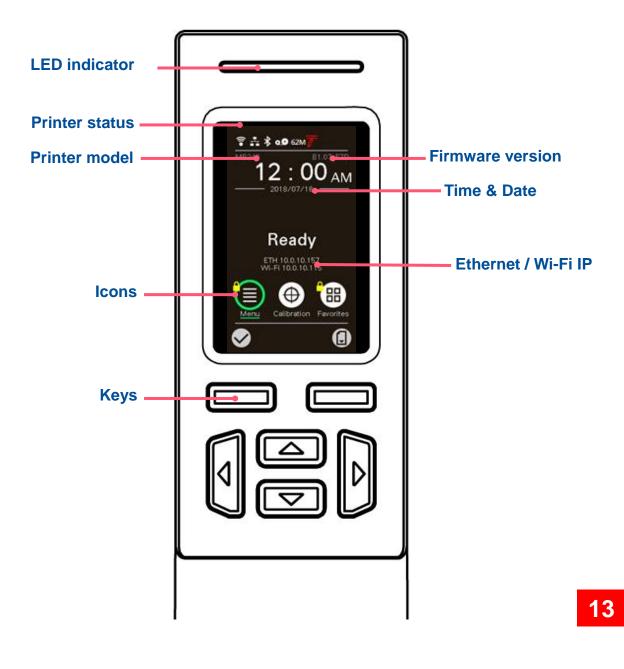
- 1. External label entrance chute
- 2. Power switch
- **3.** USB interface (High speed mode)
- 4. Slot-in Wi-Fi or GPIO interface (Option)
- 5. USB host
- 6. RS-232C interface
- 7. Ethernet interface
- 8. Power cord socket

Note:

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

2.3 Operator Control





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 (MB240T)	Select / Navigate.

LCD/LED Icon Indication:

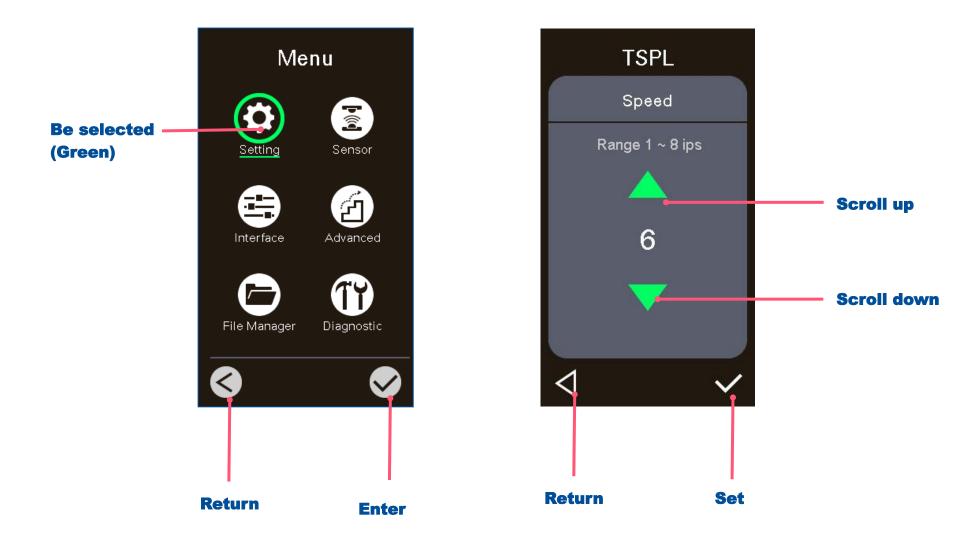
icon	Function
	On: Print head open.
٥٥	On: Out of ribbon. Blicking: Ribbon near end.
0	On: Out of paper. Blicking: Paper jam.
	On: RF connected. Blicking: RF communication.

Main Page Icon (MB240T)

lcon	Indication	icon	Function		
(((•	Wi-Fi device is ready (option).		Enter the menu.		
-	Ethernet is connected.	(\bigoplus)	Calibrate the media sensor.		
*	Bluetooth device is ready (option).	\bigcirc			
00	Remaining amount of ribbon(m).		Enter the "Favorites" option.		
	Security lock.	\checkmark	Enter cursor (be marked in green) located option.		
7	TPH cleaning.		Feed button (advance one label).		

2.3.2 Touch Screen Manipulation

Tap an item to open/use it.



2.3.3 Power-on Utilities

Power-on Utilities provides the basic functions and can be activated by below procedures: **Turn off** the power > **Hold** the button > **Open** the power > **Release** the button depending on the the color of the LED.

MB240/ MB340 Series: Power down and hold the **PAUSE** button **D** to restart the printer.

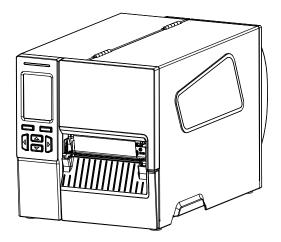
MB240T/ MB340T Series: Power down and hold the right side of the **Select Keys** to restart the printer.

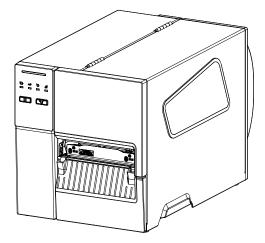
Sequences of the settings:

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

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.

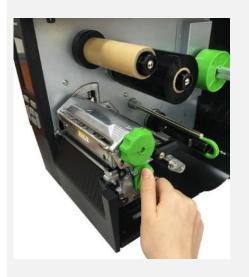
3.2 Loading the Ribbon



1. Open the media cover.



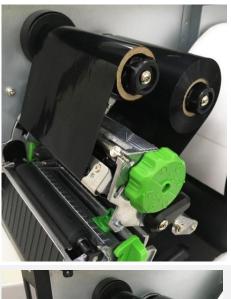
2. Install ribbon on the ribbon supply spindle and paper core on the ribbon rewind spindle.



3. Release the lever.



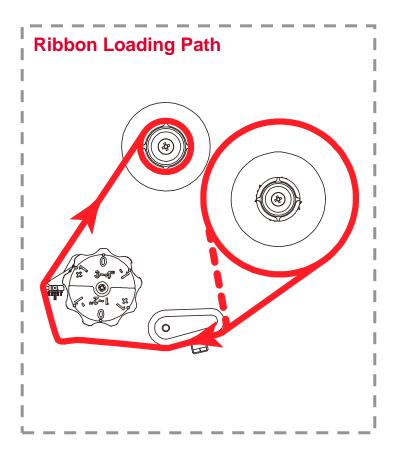
4. Wind the ribbon rewind spindle counterclockwisely until the ribbon is srinkle-free and properly stretched.



 Wind the ribbon rewind spindle counterclockwise roughly 3~5 circles until the ribbon is smooth, properly stretched and wrinkle-free.



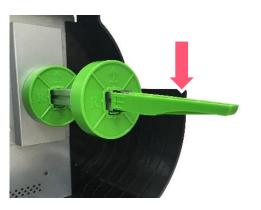
6. Close the print head mechanism.



3.3 Loading the Media



1. Open the meida cover.



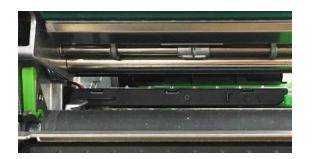
2. Move the label roll guard to the end of the spindle then flip it down.

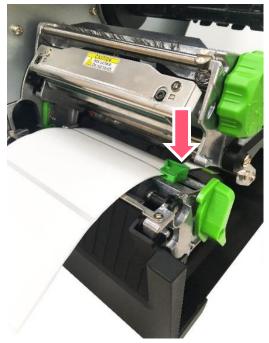


3. Place the label and use label roll guard to be stabilized



4. Release lever and thread the label through the damper, media sensor, and label guide







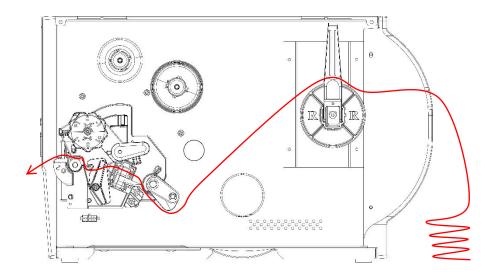
- **5.** Adjust the position of the media sensor.
- **6.** Adjust the label guide to fix the media position.
- 7. Close the Printhead

3.4 Loading the Fanfold/External Media



- **1.** Open the printer right side cover.
- 2. Insert the fanfold media through the rear external label entrance chute.
- **3.** Refer 3.3 to load the media.

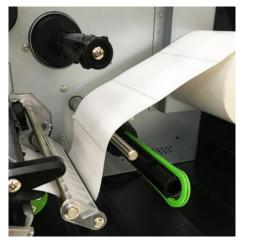
Loading path for fan-fold labels



3.5 Loading Media in Peel-off Mode (Option)



 Open the media cover and load the meida.



2. Install the label as indicated and set printer mode to Peeler Mode.



 Release lever, pull the label off about
 650mm and remove the label.
 Remove several labels to leave liner.



 Feed the leading edge of liner through the peel-off module slot as indicated.



 Pull out the media rewind spindle securing clip. Wind the media on the spindle until the liner stretched properly.



6. The media rewind spindle can also install paper core to wind the media.



 Close the print head and press FEED Button

3.6 Loading Media in Cutter Mode (Option)



 Open the media cover, and use the control panel to select to Cutter Mode.



2. Install the media and make it unfer go through the cutter paper entrance.

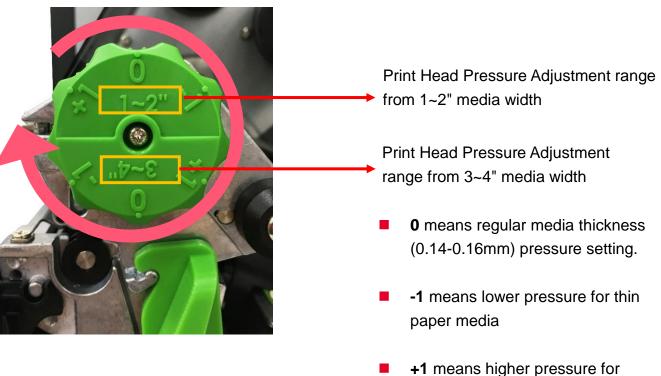


3. Close the printhead and the cutter kit, then press FEED.

4. Knob Adjustment

Print head Pressure Adjustment Knob has 6 levels' adjustment for 1~2" and 3~4" width media.

Different number means different pressure to the media. Due to printer's paper alignment is on left side of the mechanism, different media width requires the different pressure. Users can try which level can meet their expectation.



thick media

4.1 Ribbon Tension Adjustment Knob

Ribbon Tension Adjustment Knob has 5 positions for adjustment. Due to the ribbon is aligned to the inbound of print mechanism, different width of ribbon may need to adjust the tension adjustment knob to avoid the ribbon wrinkle and get the best print quality.



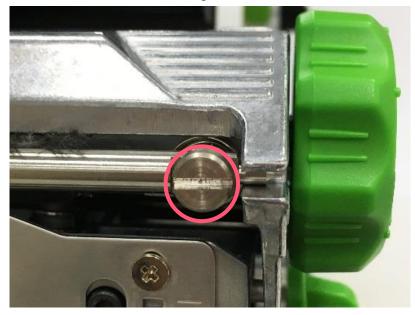


4.2 Mechanism Fine Adjustment to Avoid Ribbon Wrinkles

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.

Ribbon Tension Adjustment Knob has 5 indexes for adjustment. Use flat screw driver to change the ribbon tension.





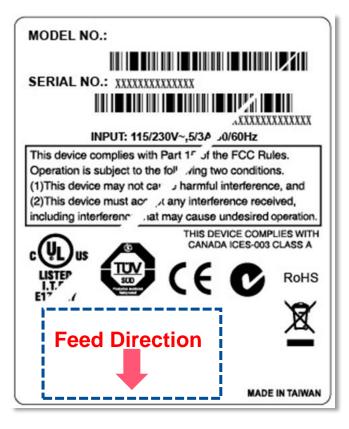
Wrinkle happens from label lower right to upper left direction





- Make sure the Print head Pressure Adjustment Knob is in correct position for the current media. Ex: 1~2", 3~4"
- Turn the screw clockwise per level and print to see if the winkle has gone.
- If the ribbon tension adjustment knob has positioned on the level of innermost side but dosnt't improve the ribbon wrinkle, please switch the print head pressure at 1 level and print the label again to check if the wrinkle is gone.
- If the wrinkle can't be avoided, please contact the Customer Service Department of your purchased reseller or distributor for service.

Wrinkle happens from label lower left to upper right direction





- Make sure the Print head Pressure Adjustment Knob is in correct position for the current media. Ex: 1~2", 3~4"
- Turn the screw counterclockwise per level and print to see if the winkle has gone.
- If the ribbon tension adjustment knob has positioned on the level of outermost side but dosnt't improve the ribbon wrinkle, please switch the print head pressure at 1 level and print the label again to check if the wrinkle is gone.
- If the wrinkle can't be avoided, please contact the Customer Service Department of your purchased reseller or distributor for service.

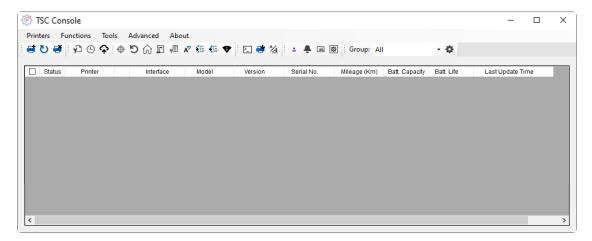
5. TSC Console

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		×
O USB		لا ا
○ сом	COM1	~ •
	LPT1	\sim
	k	
	ОК	

- **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
Print	ers Fur	nctions Tools	Adva	nced About								
i 🖬 (บ 🗃 🗄	₽ © ♠ ⊕	5 C	n 🗊 🖉 🖍 🍋	🤃 🕈 🗄 🕾	1 <u>⁄4</u> 🔒 🛔 🖬	Group: Al		\$			
	Status Printer Interface Model Version Serial No. Mileage (Km) Batt. Capacity Batt. Life Last Update Time											
		PS-E0122A	ψ	USB			MH59280311	0.2791		08/10/2021 15	5:11:24	

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 ~				
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	et		Common RS-232 Bluetoo	oth Wi-Fi Ethernet SMTP S	SNTP	
Reset Printer	Mileage (Km):	0.2791 0.0104 Rese	et			-		
Print Test Page	Common RS-232 E Speed:	Bluetooth Wi-Fi Ethernet	SMTP SNTP 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 ~	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:	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:	(1~65534, 0: OFF) mins (10~65534, 0: OFF)	Raw Port:	9100	Set	
Save Load				Set Get			Set	G

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			- 🗆 X
	Printers Functions Tools Advanced	ed About		
Add 1 printers	i 🖶 U 🗃 i 🖓 O 稡 i 🗢 D 🏠 ;	🗄 🖉 🗚 🏭 🚝 🖤 🗈 📑 🏄 💷	發 Group: All 🔹 🌩	
	Status Printer	Interface Model Version	Serial No. Mileage (Km) Batt. Capacity	Batt. Life Last Update Time
ОК	□ 💡 PS-E0122A 🖞 US	JSB	NH59280311 0.2791	08/10/2021 15:11:24
	✓ ♀ PS-E0122A ↔ 10	0.0.10.181	IH59280311 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 Image: Status Printer Image: Status <
 Click Get to receive printer's information. Click Wi-Fi to the wi-fi setting page. 	Printer Configuration Printer Configuration Printer Function Printer Configuration Calibration Printer Configuration RTC Setup Printer Configuration Factory Default Version: Backory Default Setup Pointer Function Version: Printer Configuration NA Wiefloor Default Version: Backory Default Setup Point Test Page 0 Dump Test 0 Paper Width: 2.95 Dump Test Setup Point-Print Action: EAR Vier IDefault Offset Offset O Offset O Shift Y: 0 O Continuous Vier IDefault Offset Offset O Offset O Shift Y: O Outry Code: O Outry Code: O O O O O Status Status Status Status Outry Code: Status<

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:

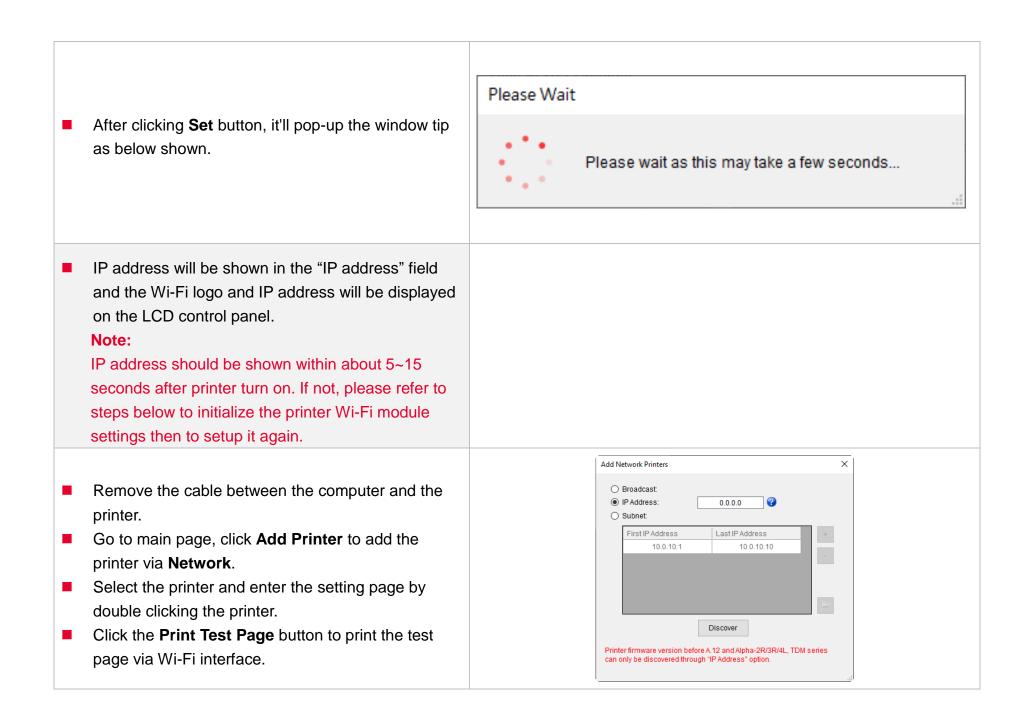
Before setting, the entered field will be shown in yellow for reminding.

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 Modul	e			
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
		rnet SMTP SNTP	_	Get
nmon RS-232 E uilt-in Wi-Fi Module SID:			_	Get
uilt-in Wi-Fi Module SID:	SSID_2	EAP Type:	_	Get
uilt-in Wi-Fi Module			_	Get
uilt-in Wi-Fi Module SID: /LAN Encryption:	SSID_2 WPA-Enterprise ~	EAP Type: Username:	_	Get
uilt-in Wi-Fi Module SID: /LAN Encryption: iey:	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:		
uilt-in Wi-Fi Module SID: /LAN Encryption: ey: HCP: ? Address:	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:	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: ubnet Mask: ateway: rimary DNS IP:	SSID_2 WPA-Enterprise ~ ••••• ON ~ 1	EAP Type: Username: Password: CA Certificate: Client Certificate: Private Key:		
uilt-in Wi-Fi Module SID: /LAN Encryption: iey: PACP: PAddress: ubnet Mask: iateway:	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: P Address: ubnet Mask: ateway: rimary DNS IP: econdary DNS IP:	SSID_2 WPA-Enterprise ••••• ON 1 0.0.0.0	EAP Type: Username: Password: CA Certificate: Client Certificate: Private Key:	Set	

Get

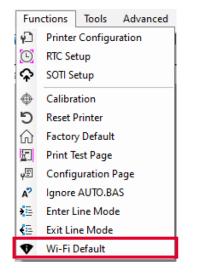


5.4 Initialize the Printer WiFi Setting

1. Return to the main page of TSC Console.

1	SC Consol	e									- C) ×
Pri	iters Fur	nctions Tools	Adv	anced About								
6	U 🗃	₽ © ♀ ⊕	5	🔂 🗊 🖉 🖍 🏭	<≣ ♥ 🗈 🤅	* 1/2 🕴 🔹 🐥 📾	母 Group: ,	All	• •			
	01-1		_		11.1.1	A second second				0-0-0		
P	Status	Printer	1.1	Interface	Model	Version	Serial No.	Mileage (Km)	Batt. Capacity	Batt. Life	Last Update Time	_
		PS-FF1ABD	6.3	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.

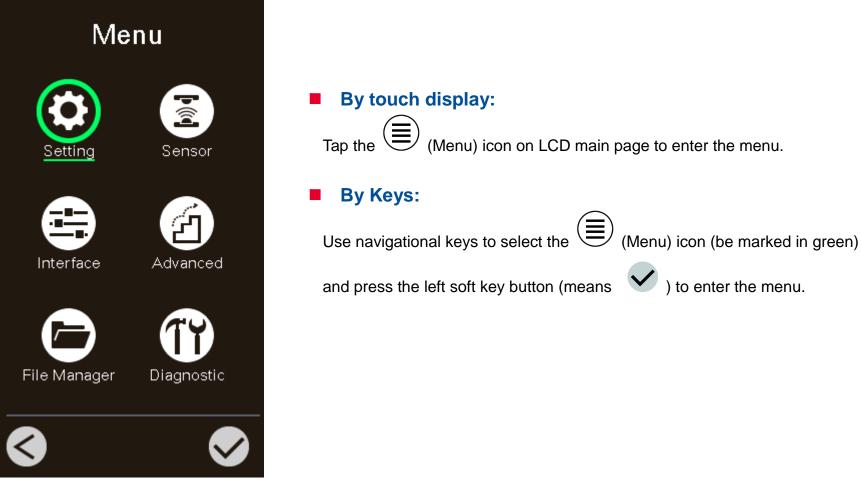
Follow below procedure to set the post action for the printing:

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	tion TPH Care Smart	Battery		Unit: mm 🗸
Printer Function	Printer Configuration			
	Version:			
Calibration	Serial No.:		TPH Serial Number:	N/A
RTC Setup	Checksum:	1344B9B1	TPH Odometer:	N/A
	Ribbon Remaining:	%	Cutter Serial Number:	N/A
Factory Default	Label Count:	553		
	Cutting Counter: Mileage (Km):		Reset Reset	
Reset Printer	mileage (Rin).	0.0313 0.0313	(Contraction of the second s	
Print Test Page	Common RS-232	Bluetooth Wi-Fi Etherne	t SMTP SNTP	
Think reskr age	Speed:	3	Ribbon:	OFF ~
Configuration Page	Density:	8 ~	Ribbon Sensor:	OFF ~
	Paper Width:	104.00 mm	Ribbon Encoder Err.:	OFF ~
Dump Text	Paper Height:	74.05 mm	Head-up Sensor:	ON v
Ignore AUTO.BAS	Media Sensor:	Black Mark 🗸 🗸	Reprint After Error:	ON v
Ignoroviovo	Ap:	1.99 0.00 mm	n Maximum Length:	152.25 mm
Exit Line Mode	Post-Print Action:	~	Gap Inten.:	7
	Reference:	OFF	Bline Inten.:	7
Enter Line Mode	Direction:	TEAR	Continuous Inten.:	4
Wi-Fi Default	Offset:	PEEL CUTTER ¹⁰	t Threshold Detection:	AUTO ~
	Shift X:	REWIND APPLICATOR	t Print Quality:	STANDARD ~
	Shift Y:	do	t Standby Time:	120 secs
	Code Page:	850 🗸		(1~65534, 0: OFF)
	Country Code:	001 ~	Sleep Time:	0 mins
Get Status			3	(10~655 OFF)
Orun Last			¥	
Save Load				Set Get

6. LCD Menu Function

6.1 Enter the Menu



Tap the (Menu) icon on LCD main page 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.



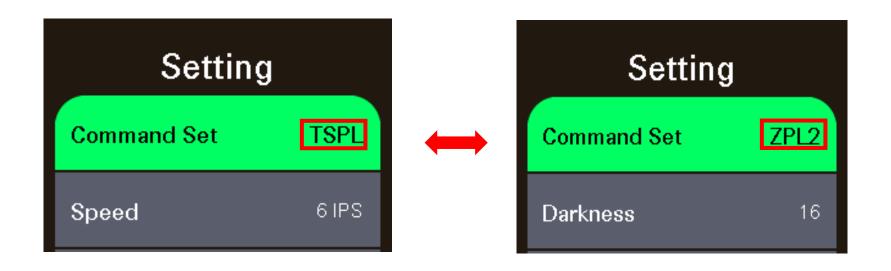
Interface : To set the printer interface settings.



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

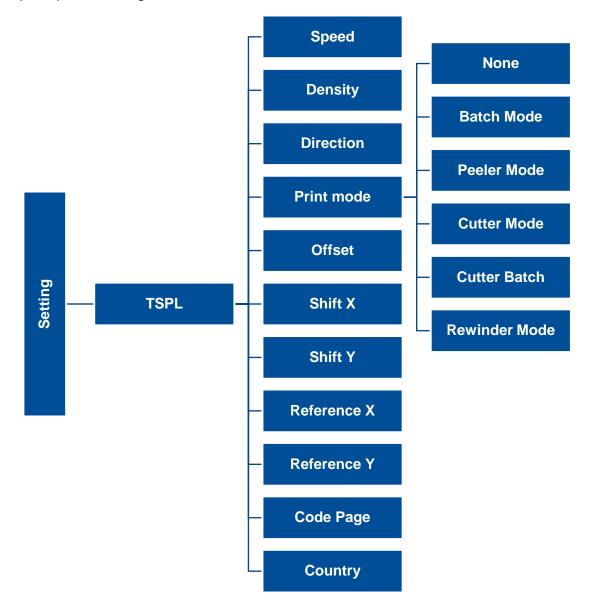
6.3 Setting

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.

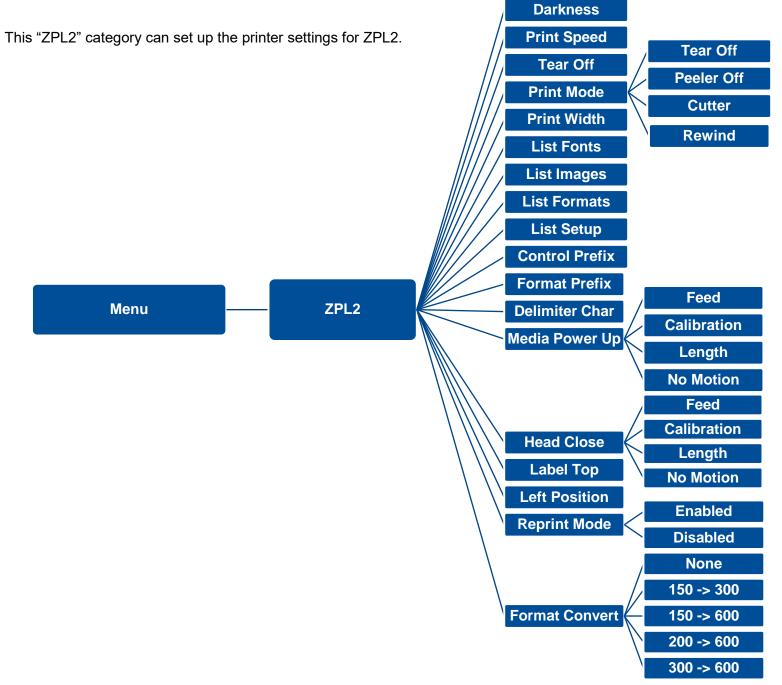


45

Item	Description	Default
Speed	Set the print speed. Setting range: 1~10 for 203dpi; 1~7 for 300dpi.	203 dpi: 5 300 dpi: 3
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.	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 setting range: -999 dots to 999 dots.	0 dot
Shift Y		0 dot
Reference X Reference Y	Set the origin of printer coordinate system horizontally and vertically. Available setting range: 0 dot to 999 dots.	0 dot 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.

6.3.2 ZPL2



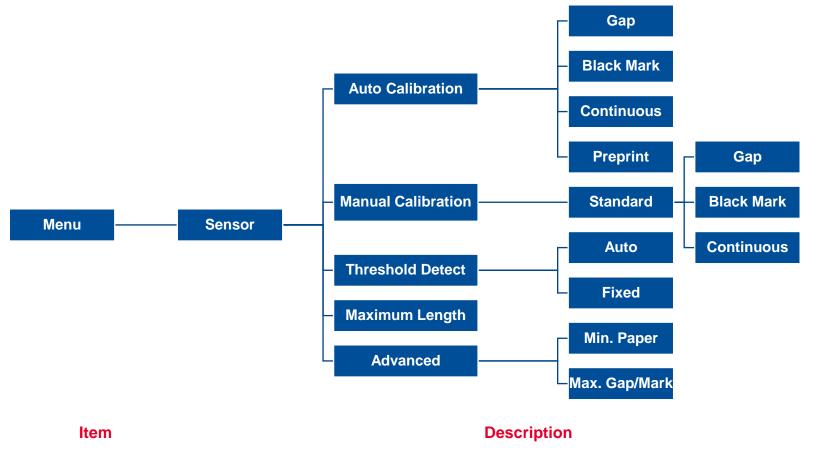
47

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 1~10 for 203dpi and 1~7 for 300dpi. 203 dpi: 300 dpi:	
Tear Off	Adjust media stop location. Available setting value range: -120~120 dots.	0 dot
	Set the print mode. There are 4 modes:	
	Tear Off: Next label top of form is aligned to the print head heating line location.	
Print mode	Peeler Off: Enable the label peel off mode.	Tear Off
	Cutter: Enable the label cutter mode	
	Rewind: Enable the label rewind mode	
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 TopAdjust print position vertically on the label. Value range: -120 to +120 dots.		0
Left Position	Left Position Adjust print position horizontally on the label. Value range:-9999 to +9999 dots.	
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

6.4 Sensor

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

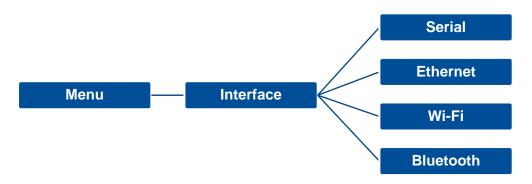


Auto Calibration	Set the media sensor type and calibrate the selected sensor automatically. In case Auto Calibration does not work, please use "Manual" function to set the paper length and	N/A
Manual Calibration	gap/bline size to complete the calibration setting.	N/A
Threshold Detect	Set sensor sensitivity 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.	0 mm

Default

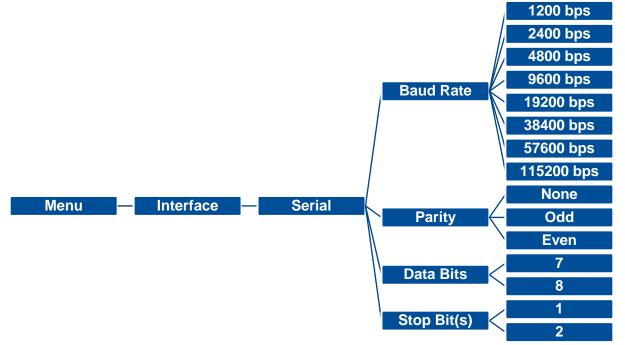
6.5 Interface

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

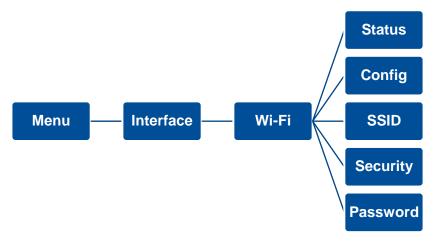
Ethernet configures internal Ethernet configuration and checks the printer's Ethernet module status, and reset the Ethernet module.



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

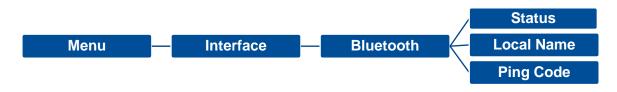
Wi-Fi can set the printer Wi-Fi settings.



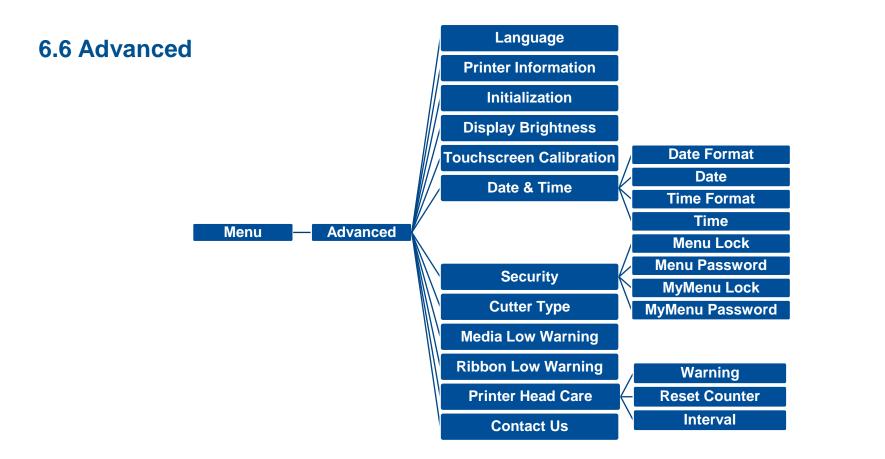
Item	Description	Default
Status	Check the Wi-Fi IP address, MAC setting status,etc.	N/A
Config.	DHCP: ON/OFF the DHCP (Dynamic Host Configuration Protocol) networkprotocol. Static IP: Set the printer's IP address, subnet mask and gateway.	DHCP
SSID	Set Wi-Fi SSID.	N/A
Security	Set Wi-Fi security.	Open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

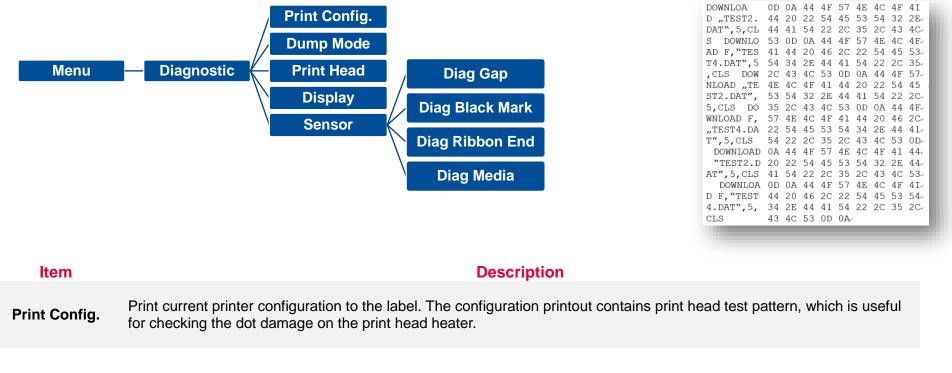
Date & Time	Setup the date and time on display.	N/A
Security	Set the password for locking the menu or favorites. The default password is 8888.	Disable
Cutter Type	Set the cutter type.	Guillotine
Ribbon Low Warning	Set the warning for ribbon low. For example, if setting value is 30m, when ribbon capacity 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



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.
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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
B	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 Frinting	 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 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.	
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.	
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 As needed wipe it.	

9. Angency Complicance and Approvals

CE	EN 55032, Class A EN 55024 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.
FC	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 32, Class A

	UL 62368-1 CSA C22.2 No. 62368-1
S SUD SUD turvaid.com/ ps-cett	EN 62368-1
K.	KN 32 / KN 35 / K 60950-1 이 기기는 업무용(A 급) 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。
Energy STAR	Energy Star for Imaging Equipment Version 2.0
8	IS 13252(Part 1)/ IEC 60950-1
$\mathbf{\mathfrak{S}}$	CNS 13438 CNS 14336-1 CNS 15663
	LP0002

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

Important safety instructions:

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

WARNING:

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

CAUTION:

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

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

Dispose of used batteries according to the Instructions as below.

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

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

WARNING:

For operation safety, please turn off the power by the power switch before opening the media cover to load labels, ribbons, or to

repair. After completing the steps, please close the media cover first and then turn on the power to start printing. **CAUTION:**

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

Below statement are for product with optional RF function.

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,

The frequency, mode and the maximum transmitted power in EU are listed below: 2400 MHz – 2483.5 MHz: 19.88 dBm (EIRP)(Wi-Fi) 5150 MHz – 5250 MHz: 17.51 dBm (EIRP)(Wi-Fi) 2402 MHz – 2480 MHz: 6.02 dBm (EIRP)(Bluetooth)

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.

Remark

5150-5350MHz for Only indoor use 5470-5725MHz for indoor/outdoor use



Restrictions In AZE

National restrictions information is provided below

Frequency Band Country

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 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

RF exposure warning (Wi-Fi)

This equipment must be installed and operated in accordance with provided instructions and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be providing with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance. SAR Value: 0.736 W/kg

RF exposure warning (For Bluetooth)

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment. The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

specific host products operated in portable exposure conditions. (For Wi-Fi)

This device has also been evaluated and shown compliant with the IC RF Exposure limits under portable exposure conditions. (Antennas are less than 20 cm of a person's body). (For Bluetooth)

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.

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil sans fil est inférieure à la limite d'exposition aux fréquences radio de l'Industry Canada (IC). Utilisez l'appareil sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a été évalué et démontré conforme aux limites SAR (Specific Absorption Rate – Taux d'absorption spécifique) par l'IC lorsqu'il est connecté à des dispositifs hôtes spécifiques opérant dans des conditions d'utilisation mobile. **(Pour le Wi-Fi)**

Ce périphérique a également été évalué et démontré conforme aux limites d'exposition radio-fréquence par l'IC pour des utilisations par des opérateurs mobiles (les antennes sont à moins de 20 cm du corps d'une personne). **(Pour le Bluetooth)**

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。

MFi for Bluetooth

^{Made for} **∉**iPhone | iPad | iPod

Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

For US Model

Made for iPhone®XS Max, iPhone XS, iPhone XR, iPhone X, iPhone 8, iPhone 8 Plus, iPhone 7, iPhone 7 Plus, iPhone SE, iPhone 6s, iPhone 6s Plus, iPhone 6, iPhone 6 Plus, iPhone 5s, iPad Pro® 12.9-inch (2nd generation), iPad Pro 10.5-inch, iPad® (6th generation), iPad (5th generation), iPad Pro 9.7-inch, iPad Pro 12.9-inch (1st generation), iPad Air® 2, iPad mini[™] 4, iPad mini 3, iPad Air, iPad mini 2, iPod touch® (6th generation)

iPad, iPad Air, iPad Pro, iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.

For JP Model

Made for iPhone XS Max, iPhone XS, iPhone XR, iPhone X, iPhone 8, iPhone 8 Plus, iPhone 7, iPhone 7 Plus, iPhone SE, iPhone 6s, iPhone 6s Plus, iPhone 6, iPhone 6 Plus, iPhone 5s, iPad Pro 12.9-inch (2nd generation), iPad Pro 10.5-inch, iPad (6th generation), iPad (5th generation), iPad Pro 9.7-inch, iPad Pro 12.9-inch (1st generation), iPad Air 2, iPad mini 4, iPad mini 3, iPad Air, iPad mini 2, iPod touch (6th generation)

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Except for US, JP Model

Made for iPhone XS Max, iPhone XS, iPhone XR, iPhone X, iPhone 8, iPhone 8 Plus, iPhone 7, iPhone 7 Plus, iPhone SE, iPhone 6s, iPhone 6s Plus, iPhone 6, iPhone 6 Plus, iPhone 5s, iPad Pro 12.9-inch (2nd generation), iPad Pro 10.5-inch, iPad (6th generation), iPad (5th generation), iPad Pro 9.7-inch, iPad Pro 12.9-inch (1st generation), iPad Air 2, iPad mini 4, iPad mini 3, iPad Air, iPad mini 2, iPod touch (6th generation)

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10. Revise History

Date

Content

Editor

