



User Manual

www.tscprinters.com

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1 Introduction

The new generation TSC mobile printer, the Alpha-30R, is user-friendly and drop-resistant. It enhances customer service, boosts productivity and improves shopper experience in retail stores. The Alpha-30R is stylish and comfortable in use and prints receipts or labels on-demand. Mobile printing operations can be carried out much faster and with more accuracy.

The Alpha-30R is compact and very efficient, it also has a large capacity smart battery that enables it to carry out a full shift of work without interruption. The Apple-certified MFi Bluetooth® 5.0 connection and 802.11ac Wi-Fi fast roaming features allow the Alpha-30R to provide reliable and seamless communication with user devices to achieve optimal mobile field-work.

The Alpha-30R's smart battery paired with SOTI Connect and TSC Console remote printer management gives real-time visibility that helps enterprises scale their business activities seamlessly and efficiently.

The Alpha-30R design emphasizes durability, it has the most robust specifications in its class. The ruggedness of the Alpha-30R meets MIL-STD-810 military-grade standards for drop and vehicle vibrations. It has an IP54 rating and will withstand a 2.1 m drop and a 1.0 m tumble. While the protective case allows it to withstand a 2.5 m drop in a harsh environment.

The Alpha-30R has a full line of accessories to meet a range of different environments on the go. It is especially suited for retail applications. It is also environmentally friendly and can support linerless media printing to reduce waste. Go green!

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

1.1 Specifications

Model	Alpha-30R Basic	Alpha-30R Premium					
Resolution	8 dots/m	m (203 dpi)					
Printing Method	Direct	Direct Thermal					
Max. Print Speed	Up to 127 mm (5")/second Up to 152 mm (6")/second						
Max. Print Width	72 mn	n (2.83")					
Max. Print Length	2,794 n	nm (110")					
Enclosure	Plastic with rub	bber over molded					
Physical Dimension	118 mm (W) x 158	mm (H) x 68 mm (D)					
	4.64" (W) x 6.2	2" (H) x 2.68" (D)					
Weight (Including Battery)	650 g (1.43 lbs.)					
Drop Specification	2.1 m (6.9 ft), with protecti	ve case can be 2.5 m (8.2 ft)					
MIL-STD 810	Drop an	d vibration					
Tumble Test	ble Test 800 free falls from 1 m (3.3 ft), with protective case can be 1000 free falls from 1 m (3.3 ft)						
IP Rating	IP54 (without case, p	paper path is excluded)					
Max. Roll Capacity	57 mm ((2.24") OD					
Processor	32-bit F	RISC CPU					
Memory	128MB SDRA	M, 128MB Flash					
Connectivity	Two options:						
	 Type C USB 2.0 + MFi Bluetooth 5.0 + Passive NFC tag Type C USB 2.0 + 802.11 a/b/g/n/ac with Bluetooth 5.0 + Passive NFC tag 						
	NOTE: The Type C connector is used for communication only.						
Power	7.4V DC, 3080mAh Li-ion rechargeable battery	7.4V DC, 3030mAh Li-ion rechargeable smart battery					
User Interface • 3 buttons (Power On/Off, feed, and cover-open) • 2 color LEDs for printer status and battery charging status • 1 LCD for printer status							

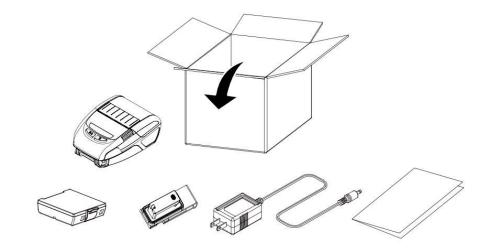
Model	Alpha-30R Basic	Alpha-30R Premium			
Sensors	Reflective sensorHead open sensor	Reflective sensorTransmissive sensorHead open sensor			
Real Time Clock	Star	ndard			
Internal Fonts	 8 alpha-numeric bitmap fonts One Monotype Imaging® CG Triumvirate Bold Conder 	used scalable font			
Barcode		.B.C, Codabar, Interleave 2 of 5, EAN-8, EAN-13, EAN- , MSI, PLESSEY, POSTNET, China POST, GS1 Data bar			
Printer Language	TSPL-EZC (EPL2, ZPL	2, CPCL), or ESC-POS			
Media Type	Receipt paper, receipt paper with black mark in printing side, selected label, linerless (outside wound)	Receipt paper, receipt paper with black mark in printing side or backside, label, linerless (outside wound)			
Media Width	25.4 mm - 80 mm ((1" - 3.15") with liner			
Media Thickness	0.06 mm - 0.16 mm	n (2.36 mil - 6.3 mil)			
Media Height	Label: Min.	25.4 mm (1")			
Media Core Diameter	 Standard: 12.7 mm (0.5") Optional: 19.1 mm (0.75") 25.4 mm + 38.1 mm (1" + 1.5") 				
Environment Condition	 Operation: -20°C to 55°C (-4°F to 131°F), 10% - 90% non-condensing Storage: -30°C to 70°C (-22°F to 158°F), 10% - 90% non-condensing 				
Accessories	 Quick start guide x1 Belt clip x1 Li-ion battery x1 Power adaptor x1 				
Factory Options	Liner	ess kit			

Model	Alpha-30R Basic	Alpha-30R Premium
User Options	Type C USB 2.0 cable	
	0.75" media core adaptor	
	1" + 1.5" media core adaptor	
	Protective case with shoulder strap	
	Shoulder strap	
	1-slot battery charger	
	4-slot battery charger	
	12-24V DC vehicle power adaptor	
	12-60V DC vehicle power adaptor	
	12-60V DC vehicle open end power supply	
	12-48V DC power source with battery eliminator	
	• 12-48V wire-to-wire battery eliminator with power suppl	у
	Wire-to-wire dummy battery pack	
	Vehicle mount adaptor can be used with RAM® MOUN	TS (for premium model only)
	• Quick release vehicle mount kit (for premium model onl	у)
	1-slot docking cradle (for premium model only)	
	4-slot docking cradle (for premium model only)	

2 Unpacking and Inspecting

The printer has been specially packaged to withstand damage during shipment. Retaining the packaging materials is recommended in case you need to ship the printer. When unpacking, ensure that you have received all the following items:

- Barcode printer x1
- Li-ion battery x1
- Quick installation guide x1
- Auto-switching AC adapter x1
- Belt clip x1



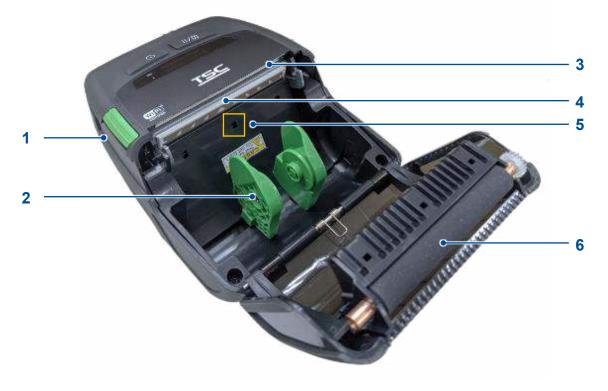
NOTE: If anything is missing or damaged, please contact the customer service department of your reseller or distributor.

3 Getting to Know Your Printer

3.1 Front View



3.2 Inner View



- 1. Power jack socket & Type C interface
- 2. Media holder
- 3. Tear bar
- 4. Printhead
- 5. Gap/Black mark sensor
- 6. Platen roller

3.3 Bottom & Rear View



- **3.** Socket for charging cradle
- 4. Rings for belt clip

4 Setting up the Printer

4.1 Installing the Battery





1. Install the battery into its compartment as indicated.

Press down the battery to lock the battery in place.
 WARNING: DO NOT throw the battery in fire. DO NOT short circuits the battery terminals. DO NOT disassemble the battery.
 NOTE: Follow the regulations in your region/country when disposing the battery.

4.2 Charging the Battery / Smart Battery

4.2.1 Operation Instructions

Charging Temperature

The battery's normal working temperature is from 0°C to 40°C (32°F to 104°F). The device and battery charger are designed to charge battery in a safe and optimized manner. If charging the battery at high temperatures, e.g. approximately 40°C (104°F), or charging the battery with printer being turned on, the printer or battery charger may stop charging for a period of time to maintain the battery at acceptable temperatures.

Shutdown Mode

IMPORTANT: In order to store/ship the battery safely and increase the battery shelf life, the battery is set to the shutdown mode when manufactured. You need to release the smart battery from the shutdown mode when charging the battery for the first time.

Follow the steps below to release the battery from the shutdown state:

- When charging the printer with the battery installed No special process is required.
- When charging the battery using a 1-bay or 4-bay charger station
 - 1. Install the battery on the charger station.
 - 2. When the LED on the station illuminates blinking red, remove and re-install the battery to deactivate the shutdown mode.

4.2.2 Battery Installed in the Printer



1. Open the interface cover and then insert the supplied power connector into the power jack socket.

2. Insert the power plug into the power outlet socket.

Insert the power cable connector into the power jack socket.
 IMPORTANT: Before inserting the power cable connector into the socket, please turn off the printer. DO NOT remove the battery from the printer when charging the battery; otherwise, you need to remove and re-insert the power cable.

The battery status LED will remain solid amber until the battery reaches fully charged. Once fully charged, the LED will turn off and the printer will automatically stop charging.

4.2.3 Battery Installed on the 1-Bay Charger Station (optional)

NOTE: You need to deactivate the shutdown mode for the battery when charging the battery for the first time. For how to deactivate the shutdown mode, please refer to 4.2.1.



1. Place the charger station on a flat surface.



2. Install the battery onto the charger station and then press down the battery to secure it in place.



3. Plug the power adapter into the power outlet socket and then insert the power cable connector into the charger's power jack socket.



4. When the battery is fully charged, pry the battery from the corners as indicated to remove the battery from the charger.

The LED on the charger station will remain solid amber until the battery reaches fully charged. Once fully charged, the LED will turn off and the printer will automatically stop charging.

4.2.4 Charging the Printer with Battery Installed using the 1-Slot Docking Cradle (optional)



1. Slide to install the transfer adapter on the docking cradle.



2. Push the printer in the indicated direction ensuring that the slot on the rear side of the printer is aligned with transfer adapter.



3. Lay the printer on the cradle ensuring that the printer is secured in place and the terminals on the cradle is aligned with the docking socket on the printer.



 Plug the power adapter into the power outlet socket and then insert the power cable connector into the charger's power jack socket.



5. Press the release button to release the printer from the docking cradle when fully charged.

The battery status LED on the printer will remain solid amber until the battery reaches fully charged. Once fully charged, the LED will turn off and the printer will automatically stop charging.

4.2.5 Charging the Printer with Battery Installed using the 4-Slot Docking Cradle (optional)







1. Place the docking cradle on a flat surface.

2. Place the holder for the printer on the docking cradle.

3. Install the single screw to secure the holder in place.



4. Install the printer on the docking cradle as indicated.

5. Plug the power adapter into the power outlet socket and then insert the power cable connector into the charger's power jack socket.

6. Turn on the power switch.

The battery status LED on the printer will remain solid amber until the battery reaches fully charged. Once fully charged, the LED will turn off and the printer will automatically stop charging.

4.3 Loading the Media





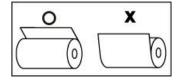
1. Press the media cover release button to open the media cover.

2. Slightly pull to separate the two media holders.





3. Load the media as illustrated ensuring that the hubs on the media holder fit into the media paper core. Pull out the media until the media extends out of the tear edge.



- 4. Close the media cover.
- 5. Use TSC Console to perform a calibration for the media in use.

NOTE: Performing a calibration is required when using other types of labels or loading a new media roll.

4.4 Loading the Linerless Media (Linerless Model)



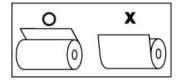
1. Press the media cover release button to open the media cover.

2. Slightly pull to separate the two media holders.





3. Load the media as illustrated ensuring that the hubs on the media holder fit into the media paper core. Pull out the media until the media extends out of the tear edge.



- 4. Close the media cover.
- 5. Use TSC Console to perform a calibration for the media in use.

NOTE: Performing a calibration is required when using other types of labels or loading a new media roll.

4.5 Installing the Belt Clip





1. Thread the belt clip through under the bar on the rear side of the printer.

2. Fold back to adhere the self-adhesive hook to the loop tape.

4.6 Using the IP54 Case with Shoulder Strap (optional)



1. Open the cover.



2. Put the printer into the case.



3. Close the cover.



4. Flip over the transparent cover and then attach the cover in place.

5 Operator Interface



No.	Name & Icon	Status	Description
1	LCD Monitor	Whe	ype Cont. Battery Power Status sion B1.00 D148 Bluetooth's last 4 digits en connecting to a Wi-Fi network, the firmware version and Bluetooth rmation will disappear and give way to the Wi-Fi IP address.
2	Feed / Pause Button	 When the printer is ready When the printer is printin state, press to resume th 	ng, press to pause the print activities. When the printer is in the pause

No.	Name & Icon	Status	Description
	Printer Status LED	Off	The printer is turned on and ready.
		Green (blinking)	The system is downloading data from the computer or the printer is in pause state.
3		Amber (solid)	The system is clearing data or the printer is busy.
		Red (solid)	The media cover is opened or there is memory error (memory space is not enough).
		Red (blinking)	Other errors, such as paper jam, paper empty
	Battery Status LED	Off	The battery is fully charged.
4		Amber (blinking)	Battery overheat, cannot detect the battery, battery over-voltage, charge timeout, etc.
		Amber (solid)	The battery is charging.
5	Power Button	·	ed off, press and hold for 2 - 3 seconds to turn on the printer. press and hold for 2 - 3 seconds to turn off the printer.

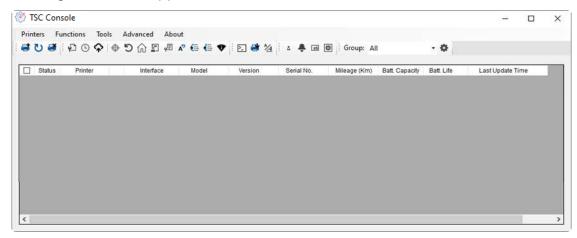
6 TSC Console

Designed especially for the TSC printers, **TSC Console** enables users to deploy, manage, monitor, and troubleshoot both wired or wireless connections to one or a group of printers. **TSC Console** lowers IT costs and increases printer uptime with convenient outof-the-box installation and a simplified Windows graphical user interface. It enhances robustness through integrated management capabilities and ensures that printers are available, reliable, and serviceable at all times.

6.1 Launching TSC Console

Follow the steps below to launch TSC Console:

1. Double click the **TSC Console** icon on the desktop of your computer to launch **TSC Console**. After launching **TSC Console**, the following screen will appear.



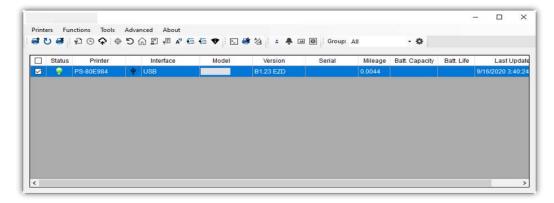
2. Select **Printers > Add Printers** to add the new printer to the **TSC Console** main page.



3. Select the connection based on how the printer is connected to your computer and then select **OK** to add the printer. **NOTE:** The image below shows that the printer is connected to a computer via the USB cable.

Add Printers			×
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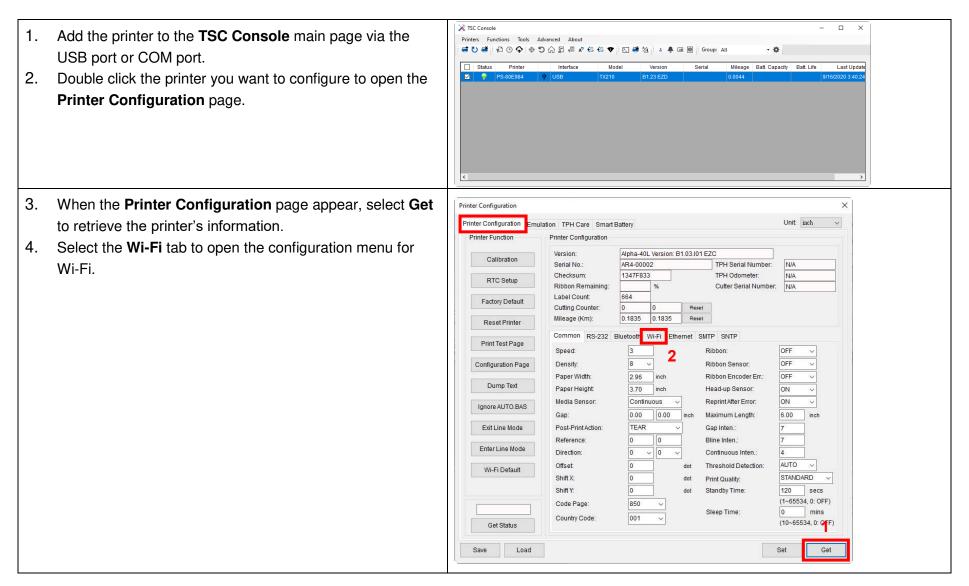
4. Select and start configuring the printer.



NOTE: You may refer to TSC Console Programming Manual for further information.

6.2 Adding Wi-Fi Interface

It allows users to add Wi-Fi interface to the **TSC Console** main page and enables users to control the printer through a wireless network. Follow the steps below to add Wi-Fi interface to the **TSC Console** main page:



When using the WPA-Personal encryption:

- (1) Enter the network name in the SSID field.
- (2) Select WPA-Personal in the WLAN Encryption field.
- (3) Enter the Wi-Fi network password in the Key field.
- (4) Set DHCP to ON. If DHCP is set to OFF, you need to specify information for the IP Address, Subnet Mask, and Gateway fields.
- (5) Select **Set** to finish the configuration.

NOTE: The fields marked in yellow indicate that information in the fields have been changed before selecting **Set** to finish the configuration.

NOTE: Users are also allowed to change the name for the printer and raw port in the **Printer Name** field and **Raw Port** field.

When using the WPA-Enterprise encryption:

- (1) Enter the network name in the **SSID** field.
- (2) Select WPA-Enterprise in the WLAN Encryption field.
- (3) Set DHCP to ON. If DHCP is set to OFF, you need to specify information for the IP Address, Subnet Mask, and Gateway fields.
- (4) Select EAP type in the **EAP Type** field.
- (5) Upload certificate and key for the **CA Certificate**, **Client Certificate**, and **Private Key** field respectively.
- (6) Select **Set** to finish the configuration.

NOTE: The fields marked in yellow indicate that information in the fields have been changed before selecting **Set** to finish the configuration.

NOTE: Users are also allowed to change the name for the printer and raw port in the **Printer Name** field and **Raw Port** field.

SSID: SSID_2 EAP Type: WLAN Encryption: WPA-Enterprise Username: Username: Key: •••••• Password: Password: DHCP: ON 1 2 File Name Browse IP Address: O.0.0 CA Certificate: Image: Image: <t< th=""><th>SSID:</th><th>SSID_1</th><th>EAP Type:</th><th>~</th><th></th></t<>	SSID:	SSID_1	EAP Type:	~		
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MAC Address: 00:1B:82:FF:15:3C RSSI: 0	Built-in Wi-Fi Module SSID: WLAN Encryption: Key: DHCP: IP Address: Subnet Mask: Gateway: Primary DNS IP: Secondary DNS IP: Raw Port:	SSID_2 WPA-Enterprise ON 1 0.0.0.0 0.0.0.0 9100	EAP Type: Username: Password: 2 CA Certificate: Client Certificate: Private Key: EAP-FAST PAC:	Set		
	Built-in Wi-Fi Module SSID: WLAN Encryption: Key: DHCP: IP Address: Subnet Mask:	SSID_2 WPA-Enterprise ~ •••••• ON ~ 1	EAP Type: Username: Password: 2 CA Certificate: Client Certificate:	Set		

5.	After selecting Set to finish the configuration, the message will appear on the screen and the printer will re-start	Please Wait					
	automatically.	 Please wait as this may take a few seconds 					
6.	After the printer re-starts, the printer's IP address, the Wi- Fi icon, and the Wi-Fi's address will appear on the printer's display.						
disp IP a	TE: The printer's IP address should appear on the printer's blay in from 5 to 15 seconds after the printer re-starts. If the address does not appear, initialize the printer's Wi-Fi module I then re-configure the Wi-Fi connection.						
7.	Remove the interface cable.	Add Printers X					
8.	Go to the TSC Console main page, select Printers > Add Printers and then select Network to add the printer.	O USB O COM COM COM1 O LPT LPT LPT1 Image: Comparison of the state of					

9. Go to the TSC Console main page.	Functions Tools Advanced
10. Select and then double click the printer.	C RTC Setup
11. Select Functions > Print Test Page to check if you can print the test page via the Wi-Fi connection.	 Calibration Reset Printer Factory Default Print Test Page Configuration Page Ignore AUTO.BAS Enter Line Mode Exit Line Mode Wi-Fi Default

6.3 Configuring Bluetooth

Follow the steps below to configure Bluetooth for your printer:

- 1. Add the printer to the **TSC Console** main page via the USB port or COM port. For how to add the printer to the **TSC Console** main page, please refer to Launching TSC Console.
- 2. Double click the printer you want to configure to open the **Printer Configuration** page.



3. Select the **Bluetooth** tab. Press the **Get** button to read the Bluetooth configuration.

		Bluetooth	Wi-Fi	Ethernet	802.1	X SM	TP SN	TP		
BTI	Name:			BT Name	e					
BTR	Pair Mode:			LEGACY			~			
BTR	Pin Code:			0000						
BT	MAC Addre	ess:		DC0D30	F1DA8	8				
BT	Version:			2.0.9						
xPico27	70 Module			S	Setup					
xPico27	0 Module		Enable	BT		Dis	able BT			
			******			1048.310				
									Set	Get

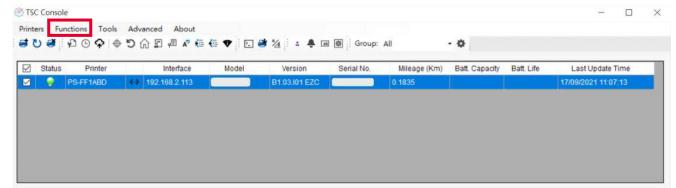
- 4. Enter the new Bluetooth local name or Bluetooth PIN code in the field. The field will be marked in yellow when the value is revised.
- 5. Press the **Set** button to set the new Bluetooth name or Bluetooth PIN code.

Press the **Get** button to confirm that the new settings have been correctly written into the printer.

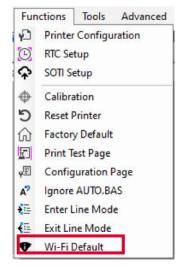
Common RS-232 Bluetooth	Wi-Fi Ethernet 802.1X SMTP SNTP	Common RS-232 Bluetooth Wi-Fi Ethernet 802.1X SMTP SNTP
Built-in Bluetooth Information		Built-in Bluetooth Information
BT Name:		BT Name:
BT Pair Mode:	LEGACY ~	BT Pair Mode: LEGACY ~
BT Pin Code:	1234	BT Pin Code: 1234
BT MAC Address:	DC0D30F1DA88	BT MAC Address: DC0D30F1DA88
BT Version:	2.0.9	BT Version: 2.0.9
External Bluetooth Module	Setup	External Bluetooth Module Setup
xPico270 Module	inable BT Disable BT	xPico270 Module Enable BT Disable BT
	Set	Get Set Get

6.4 Initializing Printer's Wi-Fi Settings

- 1. Go to the **TSC Console** main page.
- 2. Select the **Functions** tab.



3. Select Wi-Fi Default to restore the Wi-Fi settings to factory default values.



6.5 TPH Care

Self-Diagnostic TPH Care allows users to scan and detect defective dots on the printhead during the printing process. It helps reduce downtime, prevent faulty labels, and avoid barcodes of poor quality on mission critical tasks.

	Printer Configuration				× 1
	Printer Configuration Emulation	TPH Care Smart Battery		Unit incl	1 V
6 –	TPH Care Auto Protection:	ON ~			
	Unhealthy TPH dot number: (Current)	0	Unhealthy TPH dot number: (Warning Condition)	1 Increa	ase to ent+1
	proving many many many many many many many many	-be-and the bog be a had a bear at a second	ang training and a state of the	and the second	2
5 -					
5 -					
4 -		Get TPH Care Profile	TPH Test Page		3
	Save Load			Set	Get

- **1.** Sets the reminder that the defective dots have reached the configured numbers.
- 2. Shows the difference between the defective dots and the average of all other good dots in the series. The surge indicates that it is very likely that the dots in the corresponding area on the printhead are defective.
- **3.** Prints the test page so that users can check the health status of the printhead.
- 4. Detects the defective dots on the printhead.
- **5.** Allows users to check if there are defective dots on the printhead.
- 6. Enables/Disables TPH Care Auto Protection.

Follow the steps below to open the **TPH Care** page:

1. Double click the printer you want to configure on the **TSC Console** main page to open the **Printer Configuration** menu.

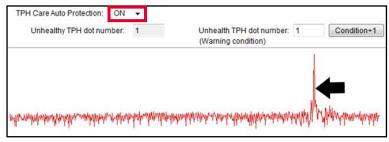
Printer Configuration Emu	lation TPH Care Smart B	Battery				Unit:	inch
Printer Function	Printer Configuration						
	Version:						
Calibration	Serial No.:	MH592803	111		TPH Serial Number:	N/A	
RTC Setup	Checksum:	09B5C280	;		TPH Odometer:	N/A	
	Ribbon Remaining:		m		Cutter Serial Number:	N/A	
Factory Default	Label Count	1422		-	-		
	Cutting Counter: Mileage (Km):	18	18 0.0104	Reset Reset			
Reset Printer	mileage (Km).	0.2791	0.0104	Reser			
	Common RS-232	Bluetooth V	/i-Fi Eth	ernet SN	ITP SNTP		
Print Test Page	Speed:	5	1		Ribbon:	ON	~
Configuration Page	Density:	8 ~	1		Ribbon Sensor:	ON	~
	Paper Width:	4.00	inch		Ribbon Encoder Err.:	ON	~
Dump Text	Paper Height:	4.00	inch		Head-up Sensor:	ON	~
[Media Sensor:	GAP		7	Reprint After Error:	ON	~
Ignore AUTO.BAS	Gap:	0.12	0.00	inch	Maximum Length:	10.00	inch
Exit Line Mode	Post-Print Action:	TEAR	11	-	Gap Inten.:	8	 _
	Reference:	0	0	-	Bline Inten	2	4
Enter Line Mode	Direction:	0 ~	16	-	Continuous Inten.:	4	=
	Offset:	0][*	1	Threshold Detection:	AUTO	
Wi-Fi Default	Shift X:	0	1		Print Quality:		
	Shift Y:	0]		Standby Time:	-	secs
	Code Page:	850	1	401	orangoj mile.	(1~655)	34, 0: OFF)
			*		Sleep Time:		mins
Get Status	Country Code:	001	~			(10~65	534, 0: OFF

2. Select the **TPH Care** tab to enter the **TPH Care** page.

- 3. Enable the TPH Care Auto Protection function (Default: OFF).
- 4. Select Get TPH Care Profile to check the health status of the printhead.

If the pattern extends flat roughly, it means the status of the printhead is good. Alternatively, you can check the **Unhealthy TPH dot number** field. If the unhealth dot number is 0, it means that the status of the printhead is good.

If surges or spikes appear as the following image, it is very likely that there are defective dots in the corresponding area on the printhead. The printer will stop printing.



6.6 Printer's Main Functions

The function buttons are located on the left side of the **Printer Configuration** page. You can use the function buttons to manage and configure the printer.

inter Configuration Emu	lation TPH Care Smart E	Battery				Unit	mm.	
Printer Function	Printer Configuration							
Calibration	Version:	Alpha-40L	. (R) Versio	n: B1.10.7	EZC			
Sandaroven.	Serial No.:	A40L2144	0027		TPH Serial Number:	N/A		
RTC Setup	Checksum:	13C99298	3		TPH Odometer:	N/A		
	Ribbon Remaining:		%		Cutter Serial Number:	N/A		
Factory Default	Label Count	0						
Reset Printer	Cutting Counter:	0	0	Reset				
Repetrimer	Mileage (Km):	0.0034	0.0034	Meset				
Print Test Page	Common RS-232 E	Bluetooth V	VI-FI Ethe	emet SN	ITP SNTP			
	Speed:	3	1	į	Ribbon:	OFF	~	
Configuration Page	Density:	8	ž.	3	Ribbon Sensor	OFF	~	
Dump Text	Paper Width	104.00	mm	8	Ribbon Encoder Err.	OFF	~	
Dump lext	Paper Height	51.69	mm	4	Head-up Sensor:	ON	~	
Ignore AUTO.BAS	Media Sensor	Black	lark v	1 8	Reprint After Error.	ON	~	
	Gap:	2.49	0.00	5 S	Maximum Length:	152.25	mm	
Exit Line Mode	Post-Print Action	TEAR	110.00		Gap Inten.:	4	Ξ	
Enter Line Mode	Reference:	0	0		Bline Inten.:	6	4	
Enter Line Mode	Direction:	0			Continuous Inten :	4	4	
Wi-Fi Default	Offset.	0			Threshold Detection:	FIXED		
	Shift X:	0	-			STAND		
RFID	Shift Y	0	-		Print Quality:	120	secs	- 2
		-		dot	Standby Time:	Long-Long-Long-Long-Long-Long-Long-Long-	34. 0: O	300
	Code Page:	850	~		Sleep Time:	0	min	
Get Status	Country Code:	001	~			(10~65	-	

Item	Description
Calibration	Detects the media type and label size.
RTC Setup	Synchronizes the printer with the real time clock on the computer.
Factory Default	Restores the printer's settings to factory default values.
Reset Printer	Re-starts the printer.
Print Test Page	Prints test page based on the specified label size and sensor type.
Configuration Page	Prints the printer's configurations.
Dump Text	Activates Dump Mode.
Ignore AUTO BAS	Ignores the AUTO BAS file when the printer boots up.
Exit Line Mode	The printer will leave line mode and enter page mode.
Enter Line Mode	The printer will leave page mode and enter line mode.
Wi-Fi Default	Restores the Wi-Fi settings to factory default values.

6.7 Configuring Optional Kits

If you install an optional kit on the printer, such as cutter, peeler, or media rewinder, you need to configure the kit after finishing the calibration so that the kit works properly.

To configure the kit:

- 1. Add the printer to the **TSC Console** main page via the USB port or COM port.
- 2. Set up the wired or wireless connection between the printer and your computer.
- Double click the printer you want to configure on the TSC
 Console main page to enter the Printer Configuration page.
- 4. Select **Get** to get printer's information.
- 5. Select the **Common** tab.
- 6. In the drop-down list for the **Post-Print Action** field, select the corresponding item based on what kind of kit you have installed on the printer.
- 7. Select **Set** to finish the configuration.

Printer Function	Printer Configuration						
r miler runction	Finiter Configuration						
Calibration	Version:		rsion: A2.1	5.G03 EZI			
	Serial No.:	A1	7		TPH Serial Number:		9700523
RTC Setup	Checksum:	126ADDB			TPH Odometer:	0.089	3
	Ribbon Remaining:	-	m		Cutter Serial Number:	N/A	
Factory Default	Label Count: Cutting Counter:	851 61	61	Reset			
Reset Printer	Mileage (Km):	0.1415	0.1415	Reset			
	Mileage (Rill).	0.1413	0.1415	Iveset	_		
Print Test Page	Common RS-232	Bluetooth \	Ni-Fi Eth	ernet 80	2.1X SMTP SNTP		
	Speed: 2	2			Ribbon:	ON	~
Configuration Page	Density:	8	7		Ribbon Sensor:	ON	~
	Paper Width:	101.60	mm		Ribbon Encoder Err	ON	~
Dump Text	Paper Height	101.60			Head-up Sensor:	ON	
Ignore AUTO.BAS				-			~
Ignore no ro.b.no	Media Sensor:	Contin			Reprint After Error:	ON	~
Exit Line Mode	Gap:	0.00	0.00	mm	Maximum Length:	254.00	mm
	Post-Print Action:	3 TEAR	~	·	Gap Inten.:	8	
Enter Line Mode	Reference:	OFF			Bline Inten.:	2	
	Direction:	TEAR			Continuous Inten.:	4	
Wi-Fi Default	Offset	PEEL	R	dot	Threshold Detection:	AUTO	~
RFID	Shift X:	REWIN		dot	Print Quality:		~
NID.	Shift Y:	APPLIC	CATOR	dot	Standby Time:		secs
	Code Page:	850	~			(1~6553	34, 0: OFF)
		001			Sleep Time:		mins
Get Status	Country Code:	001	~		4	(10~655	34, 0: OFF

6.8 Smart Battery (Mobile Printers only)

The **Smart Battery** page shows the battery status for the mobile printers.

Printer Configuration				>
Printer Configuration Emulation TPH Care	e Smart Battery		Unit:	mm ~
Battery Serial Number:	0250			
Current Voltage:	8.3	V		
Capacity:	100	%		
Temperature:	28.0	°C		
Discharged Times:	16	times		
Manufacture Date:	20200919			
Healthy Status:	GOOD			
Save Load			Set	Get

7 Troubleshooting

Problem	Possible Cause	Recovery Procedure		
Power indicator or display does not illuminate.	The battery is not properly installed.No power.	Re-install the battery.Recharge or replace battery as necessary.		
The printer has no response.	 The interface cable is not connected to the interface port. The host device and printer is not connected via the Wi-Fi network or Bluetooth. The port specified in the Windows driver is not correct 	 Re-connect the interface cable or try another interface cable. Re-configure the Wi-Fi network or Bluetooth and connect again. Select correct port in the driver. Check your program ensuring that you enter the PRINT command at the end of the file and there must be CRLF at the end of each command line. 		
The printer prints blank labels.	The media roll is not loaded correctly.The media type is not correct.	Follow the instructions to re-load the media roll.Use thermal type paper.		
"Carriage Open" appears on the display.	The media cover is open.	Close the media cover.		
"Out of Paper" appears on the display.	Media is used up.The media roll is not properly installed.Black mark sensor is not calibrated.	Install a new media roll.Re-install the media roll.Calibrate the black mark sensor.		
"Paper Jam" appears on the display.	 Gap sensor or black mark sensor is not correctly configured. Media size is not correct. Labels may be stuck in the printhead mechanism. 	 Calibrate the black mark sensor. Check if the media in use is applicable. Check if the printhead mechanism is clear of labels. 		
I cannot download files to printer's memory (FLASH / SD card).	 The FLASH memory or SD card is full. The SD card is damaged. SD card is not correctly inserted. 	 Delete files you do not need from the FLASH memory or SD card. Eject and insert the SD card again. Try another SD card. Check if the SD card is in supported format and capacity. 		

Problem	Possible Cause	Recovery Procedure	
Poor Print Quality	 Media is not loaded correctly. Dust or adhesive accumulation on the printhead. Print density is not properly configured. Media type is not compatible. Printhead element is damaged. 	 Reload the media. Clean the printhead and platen roller. Adjust the print density and print speed. Run printer self-test and check the printhead test pattern if there is dot missing in the pattern. Use proper media type. 	
Alissing printing on the left or right side of Wrong label size configuration		Set the correct label size.	
Gray line on the blank label	The printhead is dirty.The platen roller is dirty.	Clean the printhead.Clean the platen roller.	
Irregular printing The printer is in Hex Dump mode		Turn off and on the printer to skip the dump mode.	
 Skip labels when printing Skip labels when printing The label size is not properly configured. Sensor is not configured properly. The media sensor is dirty. 		 Check if the label size is correct. Calibrate the sensor using Auto Gap or Manual Gap options. Clean media sensor using a blower. 	
RTC time is not correct when rebooting the printer.	The RTC battery has no power.	Check the RTC battery.	

8 Maintenance

This section provides cleaning and maintenance procedures.

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.

Disinfecting:

Disinfecting the printer helps protect yourself and other users and helps prevent virus from spreading.

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.

8.1 Cleaning Supplies

The following supplies are recommended for cleaning the printer:

- Cotton swab
- Lint-free cloth
- Brush with soft and non-metallic bristles
- Vacuum cleaner
- 75% Ethanol used for disinfection
- 99% Isopropyl alcohol used for cleaning the printhead and platen roller
- Genuine printhead cleaning pens
- Chlorine free detergents

8.2 Cleaning Procedures

Component	Method	Recommended Cleaning Schedule
Printhead	 Power off the printer before cleaning the printhead. Leave the printhead to cool down for at least one minute. Wet a cotton swab with the 99% Isopropyl alcohol and then wipe across the printhead head. You can also use the genuine printhead cleaning pen to clean the printhead. 	Clean the printhead when you load new media.
Platen Roller	 Power off the printer. Use a piece of 99% Isopropyl alcohol saturated lint-free cloth to wipe the platen roller while rotating the platen roller. 	Clean the platen roller when you load new media.
Peel Bar	Use a piece of 99% Isopropyl alcohol saturated lint-free cloth to wipe the peel bar.	Clean as needed.
Sensor	Use the brush with soft and non-metallic bristles or vacuum cleaner to remove the dust or particles in order to optimize the print quality or sensor calibration.	Clean the sensor monthly.
Exterior	Use a piece of water-dampened lint-free cloth to wipe the surface. If necessary, you can apply the chlorine free detergent. After finishing cleaning, use the 75% ethanol to disinfect the surface.	Clean as needed.
Interior	Use the brush with soft and non-metallic bristles or vacuum cleaner to remove the dust or particles. After finishing cleaning, use the 75% ethanol to disinfect the interior.	Clean as needed.

9 Agency Compliance and Approvals

CE

EN 55032, Class B EN 55035 EN IEC 61000-3-2 EN 61000-3-3 EN 62368-1 FCC part 15B, Class B ICES-003, Class B

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



-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/ TV technician for help.

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

This Class B digital apparatus complies with Canadian ICES-003

Cet appareil numérique delaclasse B est conforme à la norme NMB-003du Canada



AS/NZS CISPR 32, Class B

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EHC

GB 4943.1 GB/T9254

GB 17625.1

IS 13252(Part 1)/ IEC 60950-1

TP TC 004 TP TC 020

LP0002

TELEC-T401 Japanese radio regulation 2008

C

K 60950-1

KS C 9832:2019

KS C 9835:2019

KS X 3124:2020

€

KS X 3126:2020 CNS 13438 CNS 14336-1



เครื่องวิทยุคมนาคมนี้ ได้รับยกเว้น ไม่ต้องได้รับ ใบอนุญาตให้มี ใช้ซึ่งเครื่องวิทยุคมนาคม หรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช. เรื่อง เครื่องวิทยุคมนาคม และสถานีวิทยุ คมนาคมที่ได้รับยกเว้นไม่ต้องได้รับใบอนุญาต วิทยุคมนาคม ตามพระราชบัญญัติวิทยุ

<u>คมนาคม พ.ศ. 2498</u>



กลักษ์. โกรคมนาคม กำกับดูแลเพื่อประชาชน Call Center 1200 (โกรฟรี)



เครื่องวิทยุคมนาคมนี้ ได้รับยกเว้น ไม่ต้องได้รับ ใบอนุญาตให้มี ใช้ซึ่งเครื่องวิทยุคมนาคม หรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช. เรื่อง เครื่องวิทยุคมนาคม และสถานีวิทยุ คมนาคมที่ได้รับยกเว้นไม่ต้องได้รับใบอนุญาต วิทยุคมนาคม ตามพระราชบัญญัติวิทยุ คมนาคม พ.ศ. 2498



กสักษ. โกรคมนาคม ทำกับดูแลเพื่อประชาชน Call Center 1200 (โกรฟรี)



NBTC

VCCI-TECHNICAL REQUIREMENTS (VCCI-CISPR 32:2016) CISPR 32:2015+COR1:2016



WPC	45 (E) Dated 28-01-2005 1048 (E) Dated 18-10-2018
COMMISSION	NTC
Complies with IMDA Standards [Dealer's Licence No.]	IMDA TS SRD
UK CA	BS EN 55032 BS EN IEC 61000-3-2 BS EN 61000-3-3 BS EN 55035

備註:不同型號可能會有不同認證,一切以產品上的認證標籤為準。

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.
- Ensure the stability when installing the device, Tipping or dropping could cause damage. 6.
- 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:

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.

电池安全警告:

- ◎ 勿将电池扔于火中。
- ◎ 勿将电池接点短路。

◎ 不可拆解电池。

◎ 不乱将电池当成一般废弃物处理。

◎ 打叉的垃圾桶符号表示电池不应该被放置到一般废弃堆中。

注意:

- ◎ 更换不正确型号类型的电池,将产生爆炸危险。
- ◎ 请根据使用说明处理用过的电池。

鋰電安全使用指南:

注意:電池若未正確更換,可能會爆炸。請用原廠建議之同款或同等級的電池來更換。請依原廠指示處理廢棄電池。

CAUTION:

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

CAUTION:

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

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)

5150 MHz - 5250 MHz: 17.51 dBm (EIRP)

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 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

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.

This device has been evaluated for and shown compliant with the IC Specific Absorption Rate ("SAR") limits when installed in 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)

		INCOU		1	emical symbols	A 14 ++ X4
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	8 9	0	0	0	0	0
積層陶瓷 表面黏著 電容	0	0	0	O	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	5 4 3	0	0	0	0	0
馬達	()	0	0	0	0	0
液晶顯示 器	12	0	0	0	0	0
插座	3 5	0	0	0	0	0
線材	-	0	0	0	0	0

exceeds the reference percentage value of presence condition.

備考2. *0″ 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 : "O" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. "一" 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.

Revision History

Date	Description	Technical Writer
2023/11/15	Official release.	Peter Yao
2024/01/18	Revised format and layoutUpdated the specifications from page 5 to 7.	Peter Yao



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