

T600 Printer Administrator's Manual



Thermal Printer

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Agency Compliance and Approvals

	EN 55032, Class B
	EN 55024
-	EN 60950-1
	EN 61000-3-2
	EN 61000-3-3
	FCC part 15B, Clas

Class B

ICES-003, Class B



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

-Increase the separation between the equipment and receiver.

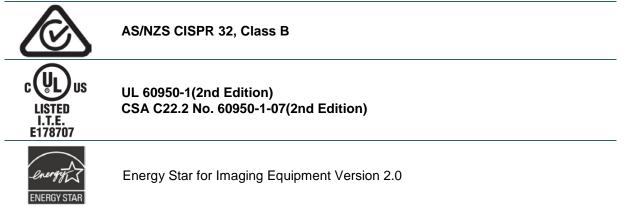
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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

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

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

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



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.

Note :

- * Continuous printing will cause the printer motor to overheat. The printer will stop printing automatically for about 10~15 minutes while the motor is cooling down. Do not turn the power off when the printer pauses or the data transferred to the printer buffer will be lost.
- * The maximum printing ratio per dot line is 15% for this printer. To print the full web black line, the maximum black line height is limited to 40 dots, which is 5mm for 203 DPI resolution printer and 3.3mm for 300 DPI resolution printers only, otherwise this may damage the power supply.

Contents

1.	Introduction 1
	1.1 Product Introduction
	1.2 Product Features
	1.2.1 Printer Standard Features2
	1.2.2 Printer Optional Features
	1.3 General Specifications
	1.4 Print Specifications
	1.5 Ribbon Specifications
	1.6 Media Specifications
2.	Operations Overview
	2.1 Unpacking and Inspection
	2.2 Printer Overview
	2.2.1 Front View
	2.2.2 Interior view
	2.2.3 Rear View
	2.3 Operator Control 10
	2.3.1 LED Indication10
	2.3.2 Button Function
3.	Setup 11
	3.1 Setting up the printer
	3.2 Open/Close the Top Cover
	3.3 Loading the Ribbon
	3.4 Loading the Media 16
	3.4.1 Loading the Media16
	3.4.2 External Label Roll Mount Installation (Option)19
	3.4.3 Loading Media in Peel-off Mode (Option)21
	3.4.4 Loading Media in Cutter Mode (Option)23
4.	Configuration Utility
	4.1 Start the Configuration Utility
	4.2 Printer Function Button
	4.3 Setting Ethernet by Configuration Utility
_	Power-on Utilities

	5.1 Ribbon and Gap/Black Mark Sensor Calibration	29
	5.2 Gap/Black Mark Calibration, Self-test and Dump Mode	30
	5.3 Printer Initialization	34
	5.4 Set Black Mark Sensor as Media Sensor and Calibrate the Black Mark Sensor	35
	5.5 Set Gap Sensor as Media Sensor and Calibrate the Gap Sensor	36
	5.6 Skip AUTO.BAS	37
6.	LCD Menu Function	38
	6.1 Enter the Menu	38
	6.2 Main Menu Overview	39
	6.3 TSPL	40
	6.4 ZPL2	42
	6.5 Sensor	45
	6.6 Interface	
	6.6.1 Serial Comm.	
	6.6.2 Ethernet	
	6.7 File Manager	
	6.8 Diagnostics	49
	6.8.1 Print Config.	49
	6.8.2 Dump Mode	51
	6.8.3 Print Head	52
	6.8.4 Display	52
	6.8.5 Sensor	52
	6.9 Advanced	53
	6.10 Service	54
7.	Troubleshooting	55
8.	Maintenance	58
Re	evise History	60

1. Introduction

1.1 Product Introduction

Thank you very much for purchasing this bar code printer.

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

Support TPLE (Translation Printer Language Eltron®) and TPLZ (Translation Printer Language Zebra®). The languages automatically decipher and translate the format of each label as it is sent to the printer. TSPL-EZ also features internal scalable True Type fonts (based on the Monotype® font engine), which are typically found only in more expensive printers.

Applications:

- Point-of-sale
- Product marking
- Receipt/ coupon printing
- Compliance labeling
- Asset tracking
- Document management
- Shipping/ receiving
- Inventory control
- Specimen labeling
- Patient tracking

1.2 Product Features

1.2.1 Printer Standard Features

The printer offers the following standard features.

Product standard feature				
Thermal transfer/ or direct thermal				
6 operating buttons and 1 LED with 3 colors				
2.3" color TFT display, 320 x 240 pixel (UI of operating menu)				
32-bit RISC high performan	ce processor (Atme	el 9G25/ 400 MH	z)	
Center alignment holder wit				
Gap transmissive sensor (F				
Black mark reflective sense	or (Position adjustab	ole)		
Ribbon encoder sensor				
Head open sensor				
Automatic media/ribbon ser	nsor selecting			
128 MB Flash memory				
64 MB DDR2 DRAM				
SD card reader for memory		2 GB		
RS-232 interface (Max. 115				
USB 2.0 interface (Hi speed				
Internal Ethernet print serve	er (10/100 Mbps) in	terface		
USB host				
Standard industry emulation	ns right out of the b	ox including Eltro	n [®] and Zebra [®]	
language support				
Internal 8 alpha-numeric bit				
Fonts and bar codes can be	e printed in any one	of the four direct	tions (0,	
90,180, 270 degree)				
Internal Monotype Imaging	[®] true type font engi	ne with one CG	l riumvirate	
Bold Condensed scalable for				
Downloadable fonts from P		ý		
Bar code, graphics/image p	onnung			
Supported bar code		Supported		
		image		
1D bar code	2D bar code	BITMAP,		
Code128 subsets	CODABLOCK F	BMP, PCX		
A.B.C, Code128UCC,	mode,	(Max. 256		
EAN128, Interleave 2	DataMatrix,	colors		
of 5, Code 39, Code	Maxicode, PDF-	graphics)		
93, EAN-13, EAN-8,	417, Aztec,			
Codabar, POSTNET,	MicroPDF417,			
UPC-A, UPC-E, EAN				
and UPC 2(5) digits, Barcode (GS1				
MSI, PLESSEY,				
China Post, ITF14,				
EAN14, Code 11,				
TELPEN, PLANET,				
Code 49, Deutsche				
Post Identcode,				
Deutsche Post				
Leitcode, LOGMARS				

Supported code page:	 Codepage 1251 (Cyrillic) Codepage 1252 (Latin-1)
 Codepage 437 (English - US) 	Codepage 1253 (Greek)
Codepage 737 (Greek)	 Codepage 1254 (Turkish)
Codepage 850 (Latin-1)	Codepage 1255 (Hebrew)
Codepage 852 (Latin-2)	Codepage 1256 (Arabic)
Codepage 855 (Cyrillic)	Codepage 1257 (Baltic)
Codepage 857 (Turkish)	Codepage 1258 (Vietnam)
Codepage 860 (Portuguese)	 ISO-8859-1: Latin-1 (Western
Codepage 861 (Icelandic)	European)
Codepage 862 (Hebrew)	ISO-8859-2: Latin-2 (Central
Codepage 863 (French	European)
Canadian)	 ISO-8859-3: Latin-3 (South
 Codepage 864 (Arabic) 	European)
Codepage 865 (Nordic)	 ISO-8859-4: Latin-4 (North
 Codepage 866 (Russian) 	European)
Codepage 869 (Greek 2)	 ISO-8859-5: Cyrillic
 Codepage 950 (Traditional 	 ISO-8859-6: Arabic
Chinese)	 ISO-8859-7: Greek
Codepage 936 (Simplified	 ISO-8859-8: Hebrew
Chinese)	 ISO-8859-9: Turkish
Codepage 932 (Japanese)	 ISO-8859-10: Nordic
Codepage 949 (Korean)	 ISO-8859-15: Latin-9
 Codepage 1250 (Latin-2) 	• UTF-8

1.2.2 Printer Optional Features

The printer offers the following optional features.

Product option feature	User option	Dealer option	Factory option
Peel-off kit			
Paper length: 1" ~ 6"		0	
Note:			
This peel-off module is supported for the thermal/ plain label only.			
Regular cutter (full cut guillotine cutter)			
Paper thickness: 0.06~ 0.19 mm Paper length: 1" ~ max. length Max. width: 110 mm		0	
Note: Except for the linerless cutter, all regular/heavy duty/care label cutters DO NOT cut on media with glue.			
External roll mount with 3" core label spindle	0		

1.3 General Specifications

General Specifications		
Physical dimensions 203 mm(W) x 191.5 mm(H) x 259.3 mm(D)		
Weight 2.3 kg (5.07 lbs)		
Mechanism	nanism Clamshell with Double-walled plastic	
Power External universal switching power supply		

	 Input: AC 100-240V/ 2.5A, 50-60 Hz Output: DC 24V/ 3.75A, 90W 	
Environmental conditionOperation: 5 ~ 40°C (41 ~ 104°F), 25~85% non-condensingStorage: -40 ~ 60 °C (-40 ~ 140°F), 10~90% non-condensing		
Environmental concern	Comply with RoHS, WEEE, REACH	

1.4 Print Specifications

Print Specifications	T620	Т630	
Print head resolution (dots per inch/mm)	203 dots/inch (8 dots/mm)	300 dots/inch (12 dots/mm)	
Printing method	Thermal transfer/ or 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	Up to 6 ips	Up to 4 ips	
(inches per second)	Max. 3 ips for peeler mode		
Max. print width	108 mm (4.25")	105.6 mm (4.15")	
Max. print length	25,400 mm (1000")	11,430 mm (450")	
Printout bias	Vertical: 1 mm max. Horizontal: 1 mm max.		

1.5 Ribbon Specifications

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

1.6 Media Specifications

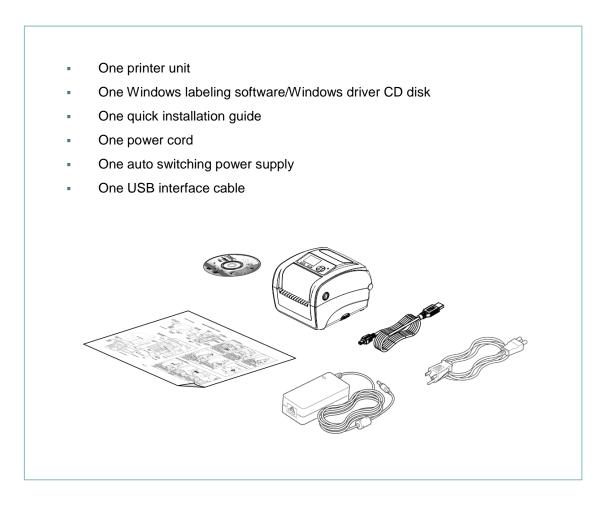
Media Specifications		
Media roll capacity	Max. 5" OD	
Media core diameter	1" & 1.5 ID core	
Media type	Continuous, die-cut, black mark, external fan-fold, notch	
Media wound type	Outside wound	
Media width	20 mm ~ 112 mm	
Media thickness	0.06 mm ~ 0.19 mm	
Label length	10 mm ~ max. print length	
Label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

2. Operations Overview

2.1 Unpacking and Inspection

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

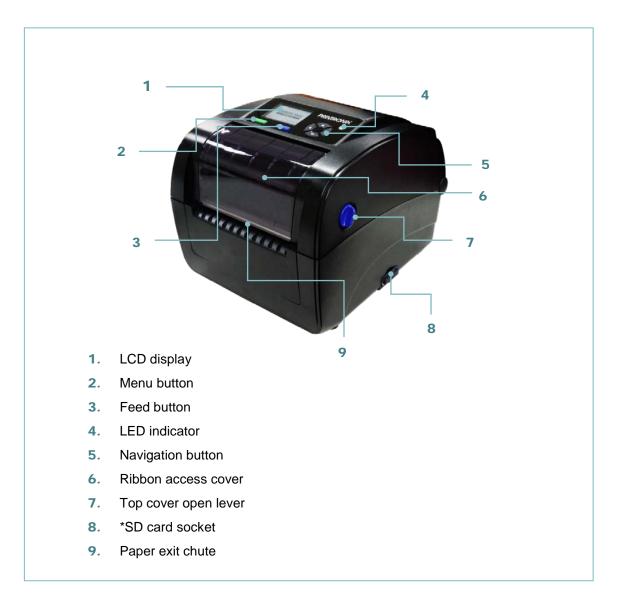
Unpacking the printer, the following items are included in the carton.



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

2.2 Printer Overview

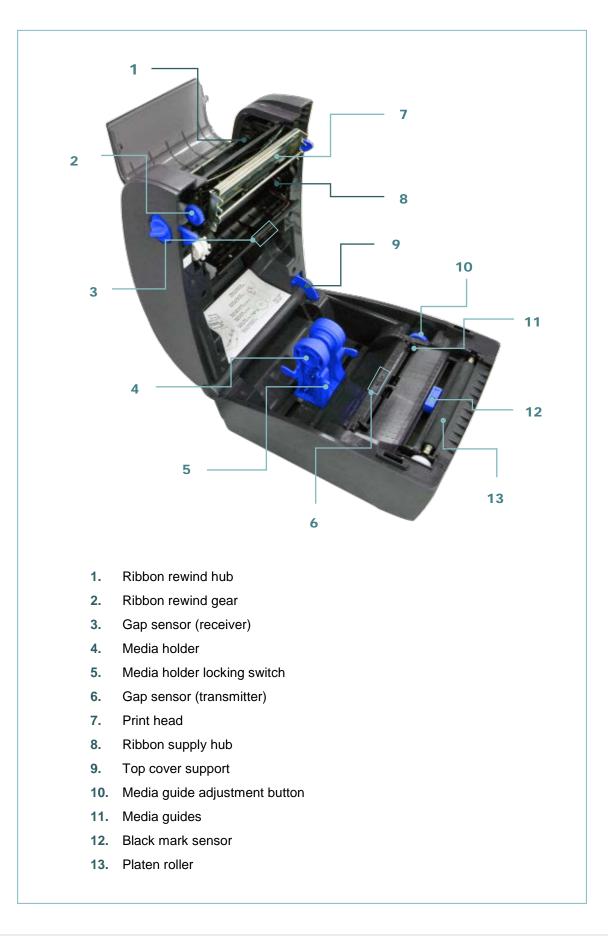
2.2.1 Front View



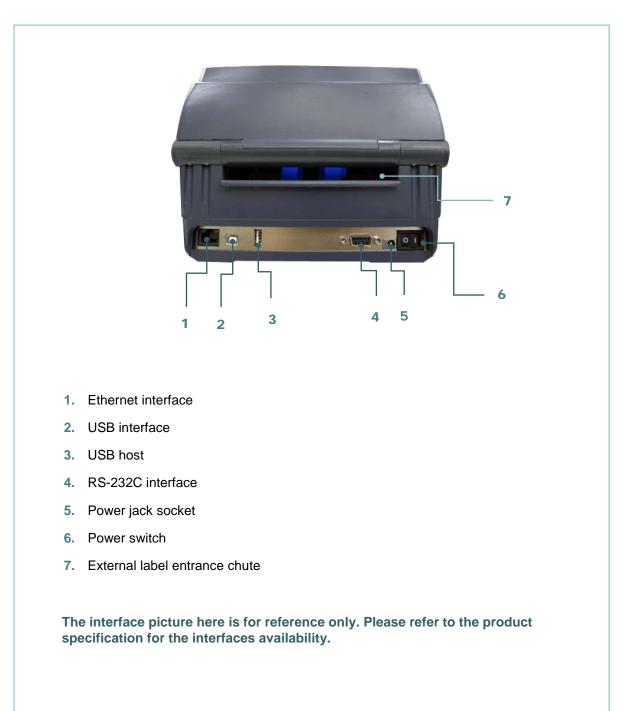
* Recommended SD card specification

SD card spec	SD card capacity	Approved SD card manufacturer
V2.0 SDHC CLASS 4	2 GB	Transcend
V2.0 SDHC CLASS 4	8 GB	SanDisk
V3.0 CLASS 10 UHS	16 GB	SanDisk
V3.0 CLASS 10 UHS	32 MB	Transcend
V2.0 SDHC CLASS 4	microSD 4GB	Transcend
V2.0 SDHC CLASS 4	microSD 16 GB	SanDisk
V3.0 CLASS 10 UHS	microSD 16GB	Transcend, Kingston
V3.0 CLASS 10 UHS	microSD 32 GB	SanDisk
 The DOS FAT file system is supported for the SD card. Folders/files stored in the SD card should be in the 8.3 filename format The miniSD/microSD card to SD card slot adapter is required. 		

2.2.2 Interior view



2.2.3 Rear View



2.3 Operator Control

2.3.1 LED Indication

This printer has one three-color LED indicator.

LED Color	Description
Green/ Solid	This illuminates that the power is on and the device is ready to use.
Green/ Flash	This illuminates that the system is downloading data from PC to memory or the printer is paused.
Amber	This illuminates that the system is clearing data from printer.
Red / Solid	This illuminates printer head open, cutter error.
Red / Flash	This illuminates a printing error, such as head open, paper empty, paper jam, or memory error etc.

2.3.2 Button Function

- Feed button
 - When the printer is ready, press the button to feed one label to the beginning of next label
 - When the printer is printing, press the button to pause a print job. When the printer is paused the power LED will blink green. Press the button again to continue the printing job
 - · When printer enter the menu, press the button to enter/select cursor located item

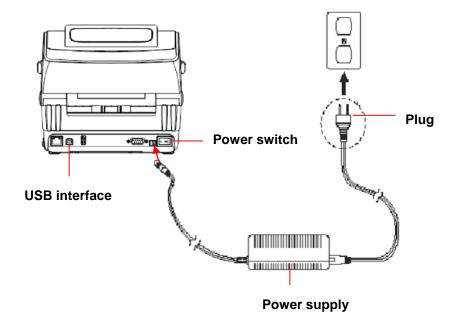
Menu button

- Enter the menu
- Exit from a menu or cancel a setting and return to the previous menu
- Navigation button
 - · Scroll the menu list

3. Setup

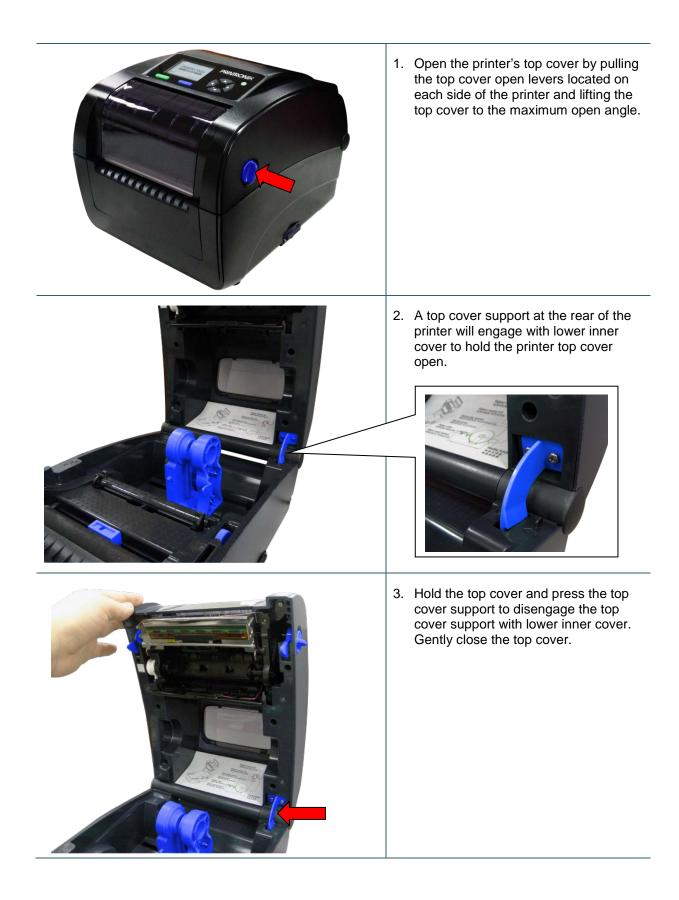
3.1 Setting up the printer

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



Note: Please switch OFF printer power switch prior to plug in the power cord to printer power jack.

3.2 Open/Close the Top Cover

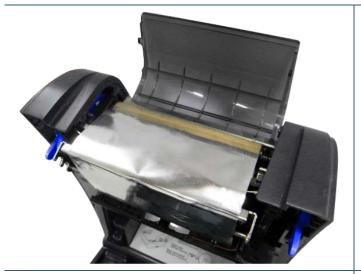


3.3 Loading the Ribbon



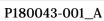
4. Insert the paper core right side onto the rewind hub. Align the notches on the left side and mount onto the spokes.





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

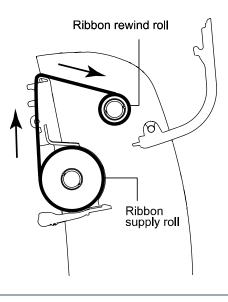
6. Turn the ribbon rewind gear until the ribbon plastic leader is thoroughly wound and the black section of the ribbon covers the print head.



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



Loading path for ribbon



3.4 Loading the Media

3.4.1 Loading the Media





7. Use "Configuration Utility" or LCD menu function to set the media sensor type and calibrate the selected sensor.

For Configuration Utility:

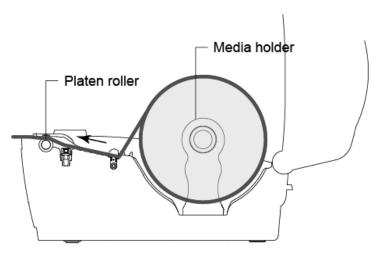
Start the "Configuration Utility" \rightarrow Select the "T6X0" in the list \rightarrow Click the "Printer Function" button \rightarrow Click the "Calibrate" button \rightarrow Select media sensor type and Click the "Calibrate" button

Printer function button:	Calibrate	
Printer Function	 GAP 2 Black Mark Continuous Auto Selection 	Paper Height mm Gap mm
	3 Calibr	ate

Note:

- Please calibrate the gap/black mark sensor when changing media.
- Please refer to the section 6 for LCD menu function.

Loading path for media



3.4.2 External Label Roll Mount Installation (Option)

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





For Configuration Utility:

Start the "Configuration Utility" \rightarrow Select the "T6X0" in the list \rightarrow Click the "Printer Function" button \rightarrow Click the "Calibrate" button \rightarrow Select media sensor type and Click the "Calibrate" button

Printer function button:	Calibrate
Printer Function	GAP 2 Paper Height Black Mark Continuous Auto Selection mm
	3 Calibrate

Note:

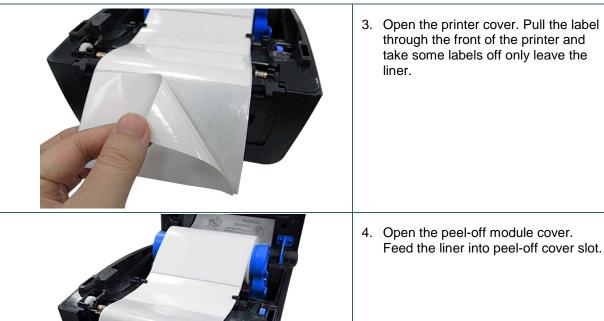
- Please calibrate the gap/black mark sensor when changing media.
- Please refer to the section 6 for LCD menu function.

3.4.3 Loading Media in Peel-off Mode (Option)

- 1. Please refer to section 3.3.1 to load the media.
- 2. Use "Configuration Utility" or LCD menu function to set the media sensor type and calibrate the selected sensor.

Note:

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



5. Close the peel-off module. Use the Configuration Utility or LCD menu function to enable the peel-off mode.

For Configuration Utility:

Start the "Configuration Utility" \rightarrow Select the "T6X0" in the list \rightarrow Click the "Printer Configuration" button \rightarrow Select "PEEL" for Post-Print Action on "Basic" tab \rightarrow Click "Set" button

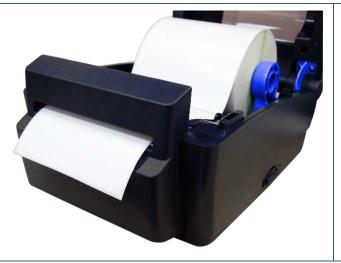
Post-Print Action	PEEL 🔽
Cut Piece	OFF TEAR
	PEEL
	REWINDER



- Disengage the top cover support to close the top cover. Printer is ready for peel-off mode.
 Press the FEED button to test.

Note: This peel-off module is supported for the thermal/plain label only.

3.4.4 Loading Media in Cutter Mode (Option)



- 1. Please refer to section 3.3.1 to load the media.
- 2. Lead the media through the cutter paper opening.

- 3. Close the printer cover.
- 4. Use "Configuration Utility" or LCD menu function to enable the cutter mode.

For Configuration Utility: Start the "Configuration Utility" \rightarrow Select the "T6X0" in the list \rightarrow Click the "Printer Configuration" button \rightarrow Select "CUTTER" for Post-Print Action on "Basic" tab → Click "Set" button

Post-Print Action	
Cut Piece	OFF TEAR PEEL CUTTER REWINDER

5. Use "Configuration Utility" or LCD menu function to set the media sensor type and calibrate the selected sensor.

For Configuration Utility:

Start the "Configuration Utility" \rightarrow Select the "T6X0" in the list \rightarrow Click the "Printer Function" button \rightarrow Click the "Calibrate" button \rightarrow Select media sensor type and Click the "Calibrate" button

Printer function button:	Calibrate
Printer Function	 GAP 2 Black Mark Continuous Auto Selection
	3 Calibrate

6. Press the FEED button to test.

Note:

- · Please calibrate the gap/black mark sensor when changing media.
- · Please refer to the section 6 for LCD menu function.

4. Configuration Utility

Configuration Utility is an integrated tool incorporating features that enable you to explore a printer's settings/status; change a printer's settings; download graphics, fonts and firmware; create a printer bitmap font; and send additional commands to a printer. With the aid of this powerful tool, you can review printer status and setting in an instant, which makes it much easier to troubleshoot problems and other issues.

4.1 Start the Configuration Utility

- 1. Connect the USB cable between the computer and the printer.
- 2. Turn on the printer power.
- 3. Start the Configuration Utility by double clicking on the 😌 icon.
- 3. The main interface will list all of the printer, including all printer that through USB interface connected to the computer, and all the printer that exist the same subnet with computer.
- 4. Select the printer in the list then click the button to enter the setting page.

🕲 PTX	Configu	ration Utility				
Group All	:	Users	Alert	Group	Se	etup
	Status	Printer Name	IP Address	Model Name	Version	Interface
V	9	Printer ID	0.0.0.0	T620	F/W version	ψ
	9	Printer ID	0.0.0.0	T630	F/W version	ψ

5. The detail functions in the bottom of the main interface are listed as below.

Printer Configuration File Manager Command Tool	RTC Setup	Printer Function	Bitmap Font Manager	
---	-----------	------------------	---------------------	--

Function	Description
Printer Configuration	This feature is used to set/explore/configure the printer settings. The common setting includes the settings that commonly used for TSPL/EPL2/ZPL/DPL printer languages.
File Manager	File manager feature is to help users to generate the file header, download the file into printer, explore what files are downloaded in printer memory and delete all files in the memory.
Command Tool	The additional features that are not yet supported in the printer management can be achieved by sending out printer commands

	to printer from the Command Tool.
RTC Setup	This feature is to synchronize printer Real Time Clock with PC.
Printer Function	This feature is used to calibrate the sensor, initialization, ignore AUTO.BAS etc.
Bitmap Font Manager	Bitmap font manager is used to convert the selected TTF font into printer format bitmap font. Both fixed pitch and variable pitch bitmap font are supported.

4.2 Printer Function Button

Printer Configuration File Manager Command Tool RTC Setup	Printer Function	Bitmap Font Manager
---	------------------	---------------------

Click the "Printer Function" button.

The detail functions in the Printer Function Group are listed as below.

	Function	Description
Calibrate	Calibrate	Calibrate the sensor specified in the Printer
Reset Printer	Calibrate	Setup group media sensor field
Reserving	Reset Printer	Reboot printer
Factory Default	Factory Default	Initialize the printer and restore the settings to factory default.
Print Test Page	Print Test Page	Print a test page
Configuration Page	Configuration Page	Print printer configuration
Ignore AUTO.BAS	Ignore AUTO.BAS	Ignore the downloaded AUTO.BAS program
Exit Line Mode	Exit Line Mode	Exit line mode.
Password Setup	Password Setup	Set the password to protect the settings
Wi-Fi Default	Wi-Fi Default	Initialize the printer Wi-Fi module to default. settings
Dump Text	Dump Text	To activate the printer dump mode.

Note:

For more information about Configuration Utility, please refer to the Configuration Utility quick start guide in the CD disk \Config_Utility directory.

4.3 Setting Ethernet using Configuration Utility

The Configuration Utility is enclosed in the CD disk \Config_Utility directory. Users can use Configuration to setup the Ethernet by USB interface. The following steps instruct users on configuring the Ethernet interface.

- 1. Connect the USB cable and Ethernet cable between the computer and the printer.
- 2. Turn on the printer power.
- 3. Start the Configuration Utility by double clicking on the \bigcirc icon.
- 4. The main interface will list all of the printer, including all printer that through USB interface connected to the computer, and all the printer that exist the same subnet with computer.

Note: The default IP address is obtained by DHCP. If the printer exist the same subnet with computer, the Configuration Utility main interface will list as below,

	Status	Printer Name	IP Address	Model Name	Version	Interface	
	9	PS-32B7E8	10.0.10.157	T620	A1.97.1 EZ	ψ → U	SB
	9	PS-32B7E8	10.0.10.157	T620	A1.97.1 EZ	<> -> E	thernet

5. Select the printer (interface) in the list then click the button to enter the setting page.

F		Status	Printer Name	IP Address	Model Name	Version	Interface
	V	9	PS-32B7E8	10.0.10.157	T620	A1.97.1 EZ	ψ
		9	PS-32B7E8	10.0.10.157	T620	A1.97.1 EZ	<>

6. Click the "Printer Configuration" button.



 Select the "Ethernet" tab for the on board Ethernet. A printer's IP address is assigned by DHCP server. To change the setting to static IP address, click "Static IP" radio button then enter the IP address, subnet mask and gateway. Click "Set IP" for the settings to take effect.

Printer Configura	ation									(
Basic Advan	iced	Z	D	RS232	Wi-Fi	Ethernet	Bluetooth	Information			
O DHCP			State	atic IP							
IP:	IP:			10.0.10.157			Printer Name				
Subnet Mas	k		255.255.255.0				PS-32B7E8				
Gateway			10.0.10.252								
MAC Addres	MAC Address		00-1B-82-32-B7-E8								
MAC Address			00-18-82-32-87-E8				91(N Port DOB-82-32-B7 Set RAW Port			
Printer PS-3:	2B7E	8 (10.0	.10.157)			•]	Set		Get	

Users can also change the "Printer Name" by entering the new name in the box, then click "Set Printer Name" for the change to take effect.

Note: After clicking the "Set Printer Name" or "Set IP" button, printer will reset in order for the new setting to take effect.

5. Power-on Utilities

There are six power-on utilities to set up and test printer hardware. These utilities are activated by pressing FEED button then turning on the printer power simultaneously and release the button at different status of LED.

Please follow the steps below for different power-on utilities.

- 1. Turn off the printer power switch.
- 2. Hold on the button then turn on the power switch.
- 3. Release the button when LED indicates with different status (color) for different functions.

Power on utilities	The LE	D color	will be c	hanged a	s followi	ng pattern:		
LED color	Green	Amber	Red	Amber	Green	Green/Amber	Red/Amber	Solid
Functions			(5 blinks)	(5 blinks)	(5 blinks)	(5 blinks)	(5 blinks)	green
Ribbon sensor calibration and gap / black mark sensor calibration			Release					
Gap / black mark sensor calibration, Self-test and enter dump mode				Release				
Printer initialization					Release			
Set black mark sensor as media sensor and calibrate the black mark sensor						Release		
Set gap sensor as media sensor and calibrate the gap sensor							Release	
Skip AUTO.BAS				<u> </u>				Release

5.1 Ribbon and Gap/Black Mark Sensor Calibration

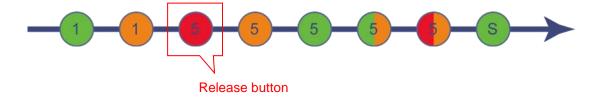
Gap/black mark sensor sensitivity should be calibrated at the following conditions:

- 1. A brand new printer
- 2. Change label stock
- 3. Printer initialization

Please follow the steps below to calibrate the ribbon and gap/black mark sensor.

- 1. Turn off the power switch.
- 2. Hold on the button then turn on the power switch.
- 3. Release the button when LED becomes red and blinking. (Any red will do during the 5 blinks)
 - It will calibrate the ribbon sensor and gap/black mark sensor sensitivity.

The LED color will be changed as following order :
 Green → amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks) → red/amber (5 blinks) → solid green



Note:

Please select gap or black mark sensor by sending GAP or BLINE command to printer prior to calibrate the sensor.

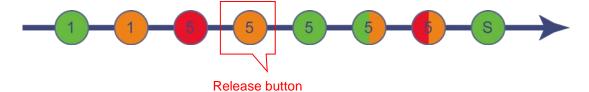
For more information about GAP and BLINE command, please refer to TSPL2 programming manual.

5.2 Gap/Black Mark Calibration, Self-test and Dump Mode

While calibrate the gap/black mark sensor, printer will measure the label length, print the internal configuration (self-test) on label and then enter the dump mode. To calibrate gap or black mark sensor, depends on the sensor setting in the last print job.

Please follow the steps below to calibrate the sensor.

- 1. Turn off the power switch.
- 2. Hold on the button then turn on the power switch.
- 3. Release the button when LED becomes amber and blinking. (Any amber will do during the 5 blinks)
 - The LED will be changed as following order.
 Green → amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks)
 → red/amber (5 blinks) → solid green



4. It calibrates the sensor and measures the label length and prints internal settings then enter the dump mode.

Note:

Please select gap or black mark sensor by Configuration Utility or by GAP or BLINE command prior to calibrate the sensor.

For more information about GAP and BLINE command, please refer to TSPL2 programming manual.



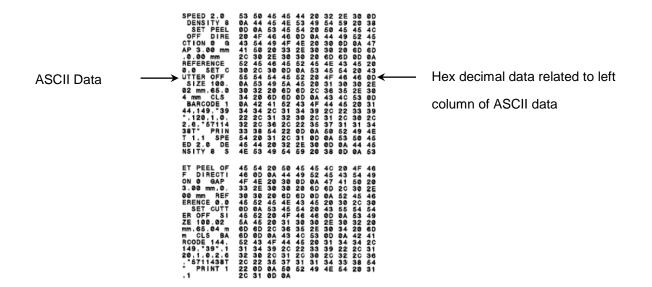
Printer will print the printer configuration after gap/black mark sensor calibration. Self-test printout can be used to check if there is any dot damage on the heater element, printer configurations and available memory space.

 Model name F/W version Firmware checksum Printer S/N Configuration file System date System time Printed mileage (meter) Cutting counter
 Print speed (inch/sec) Print darkness Label size (inch) Gap distance (inch) Gap/black mark sensor intension Code page Country code
ZPL setting information - Print darkness - Print speed (inch/sec) - Label size - Control prefix - Format prefix - Delimiter prefix - Printer power up motion - Printer head close motion
Note: ZPL is emulating for Zebra [®] language. RS232 serial port configuration

DRAM FILE (0 FILES) PHYSICAL XXXX KBYTES AVAILABLE XXXX KBYTES	Numbers of download files
FLASH FILE (0 FILES) PHYSICAL XXXX KBYTES AVAILABLE XXXX KBYTES	Total & available memory space
	Print head check pattern

Dump mode

Printer will enter dump mode after printing printer configuration. In the dump mode, all characters will be printed in 2 columns as following. 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.



Note:

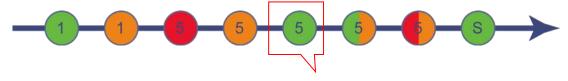
- 1. Dump mode requires 4" wide paper width.
- 2. Turn off / on the power to resume printer for normal printing.

5.3 Printer Initialization

Printer initialization is used to clear DRAM and restore printer settings to defaults. The only one exception is ribbon sensitivity, which will note be restored to default.

Printer initialization is activated by the following procedures.

- 1. Turn off the power switch.
- 2. Hold on the button then turn on the power switch.
- 3. Release the button when LED turns green after 5 amber blinks. (Any green will do during the 5 blinks)
 - The LED will be changed as following:
 Green → amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks)
 → red/amber (5 blinks) → solid green



Release button

Printer configuration will be restored to defaults as below after initialization.

Parameter	Default setting
Speed	127 mm/sec (5 ips) (203DPI)
	76 mm/sec (3 ips) (300DPI)
Density	8
Label Width	4" (101.5 mm)
Label Height	4" (101.5 mm)
Sensor Type	Gap sensor
Gap Setting	0.12" (3.0 mm)
Print Direction	0
Reference Point	0,0 (upper left corner)
Offset	0
Tear Mode	On
Peel off Mode	Off
Cutter Mode	Off
Serial Port Settings	9600 bps, none parity, 8 data bits, 1 stop bit
Code Page	850
Country Code	001
Clear Flash Memory	No
IP Address	DHCP

5.4 Set Black Mark Sensor as Media Sensor and Calibrate the Black Mark Sensor

Please follow the steps as below.

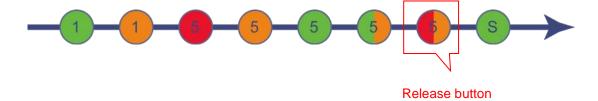
- 1. Turn off the power switch.
- 2. Hold on the button then turn on the power switch.
- 3. Release the button when LED turns **green/amber** after 5 green blinks. (Any green/amber will do during the 5 blinks).
 - The LED will be changed as following:
 Green → amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks)
 → red/amber (5 blinks) → solid green



5.5 Set Gap Sensor as Media Sensor and Calibrate the Gap Sensor

Please follow the steps as below.

- 1. Turn off the power switch.
- 2. Hold on the button then turn on the power switch.
- 3. Release the button when LED turns **red/amber** after 5 green/amber blinks. (Any red/amber will do during the 5 blinks).
 - The LED will be changed as following:
 Green → amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks) →
 red/amber (5 blinks) → solid green

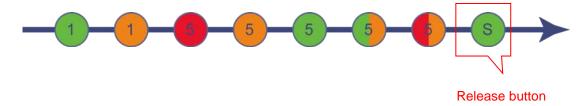


5.6 Skip AUTO.BAS

TSPL2 programming language allows user to download an auto execution file to flash memory. Printer will run the AUTO.BAS program immediately when turning on printer power. The AUTO.BAS program can be interrupted without running the program by the power-on utility.

Please follow the procedures below to skip an AUTO.BAS program.

- 1. Turn off printer power.
- 2. Press the FEED button and then turn on power.
- 3. Release the FEED button when LED becomes **solid green**.
 - The LED will be changed as following:
 Green → amber → red (5 blinks) → amber (5 blinks) → green (5 blinks) → green/amber (5 blinks) → red/amber (5 blinks) → solid green

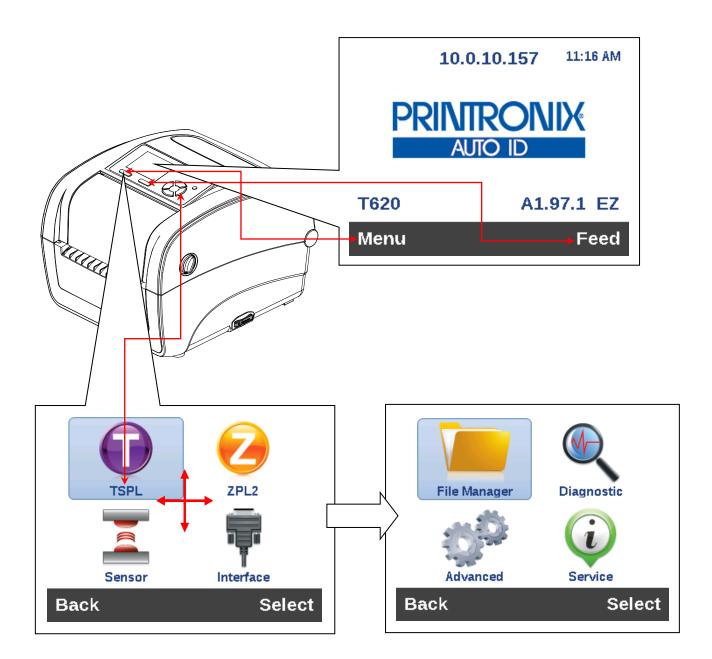


4. Printer will be interrupted to run the AUTO.BAS program.

6. LCD Menu Function

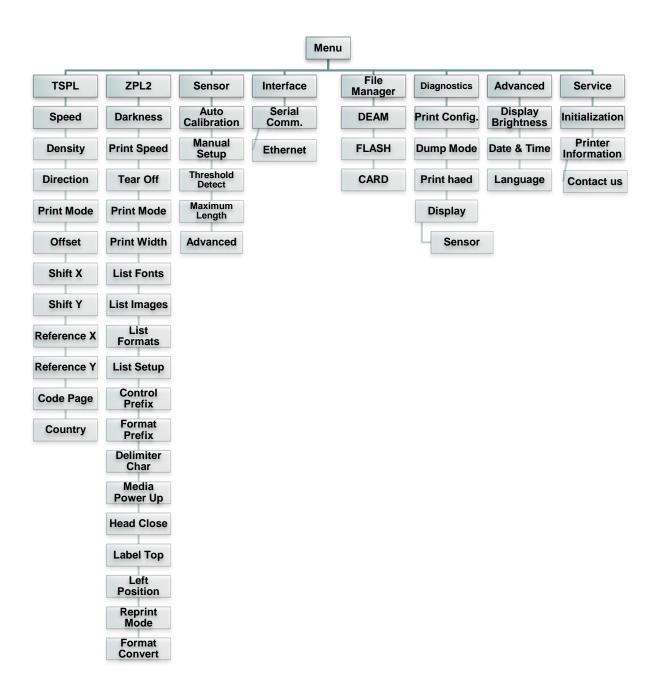
6.1 Enter the Menu

Press the "Menu" button to enter the main menu. Use the "Cross" buttons to navigate on the main menu. The selected item turns blue background. Press the "Feed/Select" button to enter the setting list.



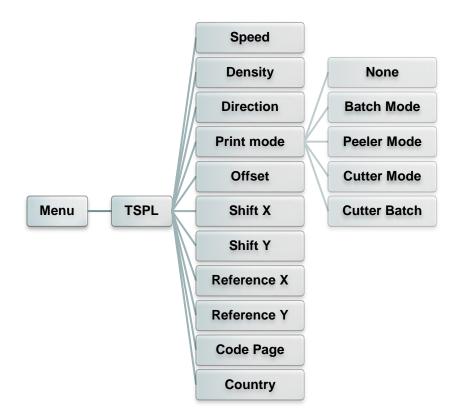
6.2 Main Menu Overview

There are 8 categories for the main menu. You can easy to set the settings of printer without connecting the computer. Please refer to following sections for more details.



6.3 TSPL

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



Item	Description	Default
Speed	Use this item to setup print speed.	5 (203dpi) 3 (300dpi)
Density	Use this option to setup printing darkness. The available setting is from 0 to 15, and the step is 1. You may need to adjust your density based on selected media.	8
Direction	The direction setting value is either 1 or 0. Use this item to setup the printout direction. DIRECTION 0 DIRECTION 1 Direction uoijoəjiQ	0
Print mode	Printer Mode Description None Next label top of form is aligned to the print head burn line location. (Tear Off Mode) Batch Mode Once image is printed completely, label gap/black mark will be fed to the tear plate location for tear away.	Batch Mode

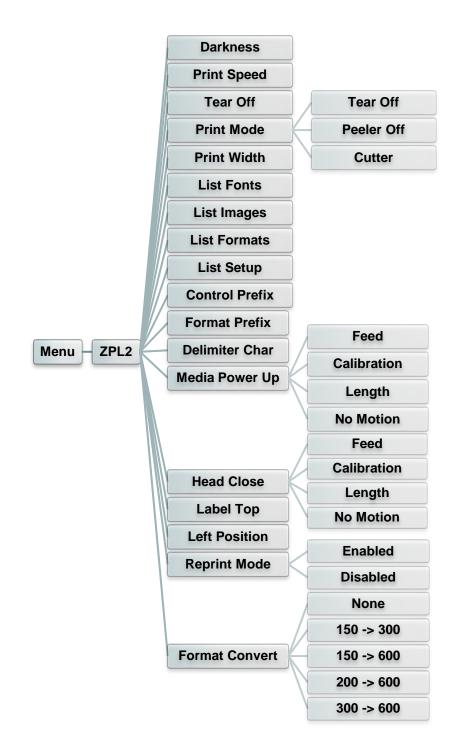
	Peeler Mode	Enable the label peel off mode.	
	Cutter Mode	Enable the label cutter mode.	
	Cutter Batch	Cut the label once at the end of the printing job.	
Offset	This item is used is from "+" to "-"	t to fine tune media stop location. Available setting value or "0" to "9".	+000
Shift X	This item is used	to fine tune print position. Available setting value is from	+000
Shift Y	"+" to "-" or "0" to	o "9".	+000
Reference X	This item is used	to set the origin of printer coordinate system horizontally	000
Reference Y	and vertically. Av	vailable setting value is from "0" to "9".	000
Code page	Use this item to	set the code page of international character set.	850
Country	Use this option t	o set the country code.	001

Note: If printing from enclosed software/driver, the software/driver will send out the commands,

which will overwrite the settings set from the panel.

6.4 ZPL2

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



Item	Description	Default
Darkness	Use this item to setup printing darkness. The available setting is from 0 to 30, and the step is 1. You may need to adjust your density based on selected media.	16

Print Speed	Use this item to setup print speed. The each increase or decrease is 1 ips. Available setting is from 2 to 6.	6 (203dpi) 4 (300dpi)
Tear Off	This item is used to fine tune media stop location. Available setting value is from "+" to "-" or "0" to "9".	+000
Print mode	This item is used to set the print mode. There are 3 modes as below,Printer ModeDescriptionTear OffNext label top of form is aligned to the print head burn line location.Peeler OffEnable the label peel off mode.CutterEnable the label cutter mode	Tear Off
Print Width	This item is used to set print width. The available value is from "0" to "9".	N/A
List Fonts	This feature is used to print current printer available fonts list to the label. The fonts stored in the printer's DRAM, Flash or optional memory card.	N/A
List Images	This feature is used to print current printer available images list to the label. The images stored in the printer's DRAM, Flash or optional memory card.	N/A
List Formats	This feature is used to print current printer available formats list to the label. The formats stored in the printer's DRAM, Flash or optional memory card.	N/A
List Setup	This feature is used to print current printer configuration to the label.	N/A
Control Prefix	This feature is used to set control prefix character.	N/A
Format Prefix	This feature is used to set format prefix character.	N/A
Delimiter Char	This feature is used to set delimiter character.	N/A
	This option is used to set the action of the media when you turn on the printer.	
Media Power Up	Selections Description Feed Printer will advance one label Calibration Printer will calibration the sensor levels, determine length and feed label Length Printer determine length and feed label No Motion Printer will not move media	No Motion
Media Power Up Head Close	Selections Description Feed Printer will advance one label Calibration Printer will calibration the sensor levels, determine length and feed label Length Printer determine length and feed label	
	Selections Description Feed Printer will advance one label Calibration Printer will calibration the sensor levels, determine length and feed label Length Printer determine length and feed label No Motion Printer will not move media This option is used to set the action of the media when you close the print head. Selections Description Feed Printer will advance one label Calibration Printer will calibration the sensor levels, determine length and feed label Calibration Printer will calibration the sensor levels, determine length and feed label Length Printer determine length and feed label No Motion Printer will not move media This option is used to adjust print position vertically on the label. The range is -120 to +120 dots.	No Motion Motion
Head Close	Selections Description Feed Printer will advance one label Calibration Printer will calibration the sensor levels, determine length and feed label Length Printer determine length and feed label No Motion Printer will not move media This option is used to set the action of the media when you close the print head. Selections Description Feed Printer will advance one label Calibration Printer will calibration the sensor levels, determine length and feed label Length Printer will calibration the sensor levels, determine length and feed label Length Printer determine length and feed label No Motion Printer will calibration the sensor levels, determine length and feed label Length Printer determine length and feed label No Motion Printer will not move media	No Motion Motion

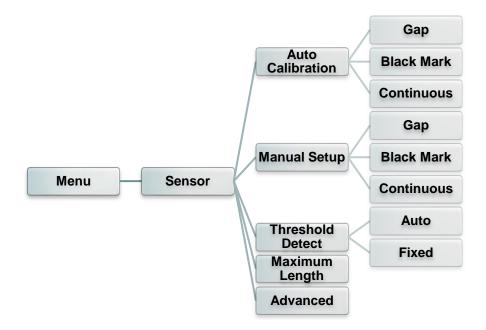
	pressing "UP" button on printer's control panel.	
Format Convert	Selects the bitmap scaling factor. The first number is the original dots per inch (dpi) value; the second, the dpi to which you would like to scale.	None

Note: If printing from enclosed software/driver, the software/driver will send out the commands,

which will overwrite the settings set from the panel.

6.5 Sensor

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



Item	Description	Default
Auto Calibration	Printer will feed 2 to 3 gap labels to calibrate the sensor sensitivity automatically.	N/A
Manual Setup	In case "Auto calibration" cannot apply to the media, please use "Manual setup" function to calibrate the sensor sensitivity.	N/A
Threshold Detect	This option is used to set sensor sensitivity in fixed or auto.	Auto
Maximum Length	This option is used to set the maximum length for label calibration.	254mm
Advanced	This function can set the minimum paper length and maximum gap/bline length for auto-calibrate the sensor sensitivity.	OFF

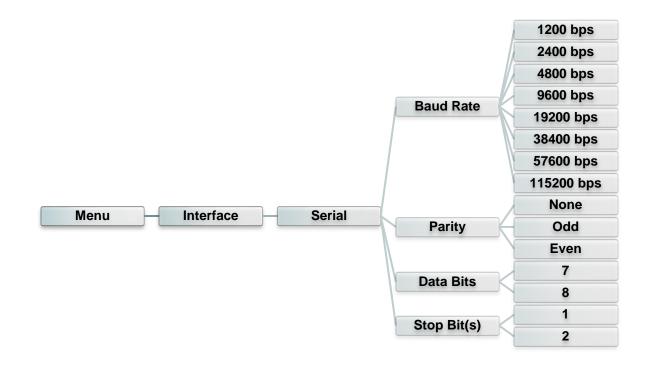
6.6 Interface

This option is used to set the printer interface settings.



6.6.1 Serial Comm.

This option is used to set the printer RS-232 settings.



Item	Description	Default
Baud Rate	This item is used to set the RS-232 baud rate.	9600
Parity	This item is used to set the RS-232 parity.	None
Data Bits	This item is used to set the RS-232 Data Bits.	8
Stop Bit(s)	This item is used to set the RS-232 Stop Bits.	1

6.6.2 Ethernet

Use this menu to configure internal Ethernet configuration check the printer's Ethernet

module status, and reset the Ethernet module.



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

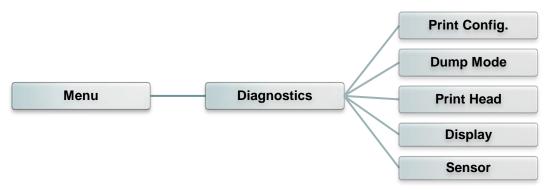
6.7 File Manager

This feature is used to check the printer available memory and file list.



Item	Description
DRAM	Use this menu to show, delete and run (.BAS) the files saved in the printer DRAM memory.
FLASH	Use this menu to show, delete and run (.BAS) the files saved in the printer Flash memory.
CARD	Use this menu to show, delete and run (.BAS) the files saved in the printer Card memory.

6.8 Diagnostics

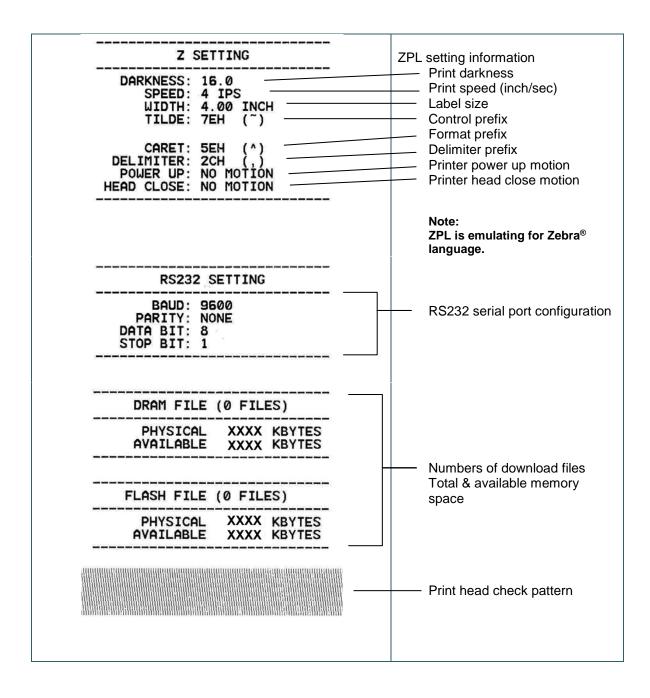


6.8.1 Print Config.

This feature is used to print current printer configuration to the label. On the configuration printout, there is a print head test pattern, which is useful for checking if there is any dot damage on the print head heater element.

Menu	Diagnostics	Print Config.

SYSTEM INFORMATION MODEL: XXXXX FIRMWARE: X.XX CHECKSUM: XXXXXXX S/N: XXXXXXXX S/N: XXXXXXXXX TCF: NO DATE: 1970/01/01 TIME: 00:04:18 NON-RESET: 110 RESET: 110 MON-RESET: 110 CUT) RESET: 0	Model name F/W version Firmware checksum Printer S/N Configuration file System date System time Printed mileage (meter) Cutting counter
PRINTING SETTING SPEED: 5 IPS DENSITY: 8.0 WIDTH: 4.00 INCH HEIGHT: 4.00 INCH GAP: 0.00 INCH INTENSION: 5 CODEPAGE: 850 COUNTRY: 001	Print speed (inch/sec) Print darkness Label size (inch) Gap distance (inch) Gap/black mark sensor intension Code page Country code

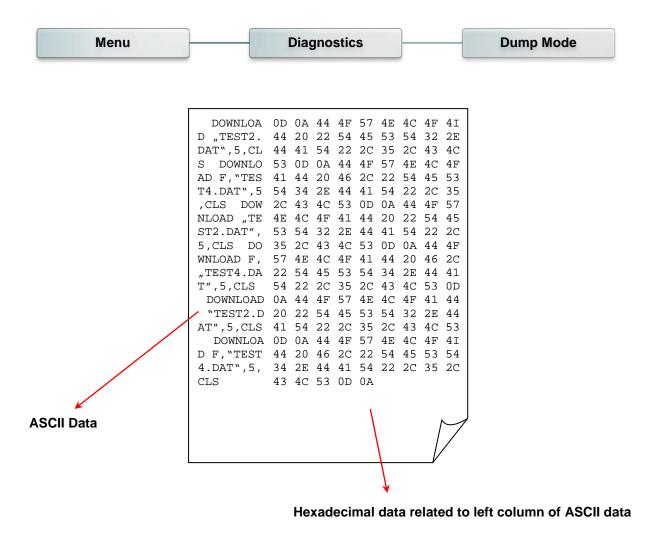


Note:

Checking dot damage requires 4" wide paper width.

6.8.2 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.



Note: Dump mode requires 4" wide paper width.

6.8.3 Print Head

This feature is used to check print head's temperature, resistance and bad dots.



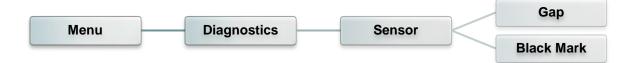
6.8.4 Display

This feature is used to check LCD's color state.

Menu	Diagnostics	Display

6.8.5 Sensor

This feature is used to check media sensor state. It can increase or decrease the intensity to check the reading value for diagnostic.



6.9 Advanced

This feature is used to set the printer LCD settings.



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

6.10 Service

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



ltem	Description
Initialization	This feature is used to restore printer settings to defaults.
Printer Information	This feature is used to check the printer's serial number, printed mileage (m), printed labels (pcs.) and cutting counter.
Contact Us	This feature is used to check the contact information for tech support service.

7. Troubleshooting

The following guide lists the most common problems that may be encountered when operating this bar code printer. If the printer still does not function after all suggested solutions have been invoked, please contact the tech support service of your purchased reseller or distributor for assistance.

Problem	Possible Cause	Recovery Procedure
Power indicator does not illuminate	* The power cord is not properly connected.	 * Plug the power cord in printer and outlet. * Switch the printer on.
" Carriage Open " displayed on LCD	* The printer head is open.	* Please close the print carriages.
" No Ribbon " displayed on LCD	 * Running out of ribbon. * The ribbon is installed incorrectly. 	 * Supply a new ribbon roll. * Please refer to the steps on section 3.3 to re-install the ribbon.
" No Paper " displayed on LCD	 * Running out of label. * The label is installed incorrectly. * Gap/black mark sensor is not calibrated. 	 * Supply a new label roll. * Please refer to the steps on section 3.4 to reinstall the label roll. * Calibrate the gap/black mark sensor.
" Paper Jam " displayed on LCD	 * Gap/black mark sensor is not set properly. * Make sure label size is set properly. * Labels may be stuck inside the printer mechanism. 	 * Calibrate the media sensor. * Set media size correctly. * Remove the stuck label inside the printer mechanism.
" Take Label " displayed on LCD	* Peel-off function is enabled.	 * If the peel-off module is installed, please remove the label. * If there is no peel-off module in front of the printer, please switch off the printer and install it. * Check if the connector is plugging correctly.
Not Printing	 * Check if interface cable is well connected to the interface connector. * The port specified in the Windows driver is not correct. * The Ethernet IP, subnet mask, gateway is not configured properly. 	 * Re-connect cable to interface or change a new cable. * If using serial cable, - Please replace the cable with pin to pin connected. - Check the baud rate setting. The default baud rate setting of printer is 9600,n,8,1. * If using the Ethernet cable, - Check if the Ethernet RJ-45 connector green LED is lit on. - Check if the Ethernet RJ-45 connector amber LED is blinking. - Check if the printer gets the IP address

No print on the label	 * Label or ribbon is loaded not correctly. * Use wrong type paper or ribbon 	 when using DHCP mode. Check if the IP address is correct when using the static IP address. Wait a few seconds let the printer get the communication with the server then check the IP address setting again. * Select the correct printer port in the driver. * 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. * Ribbon and media are not compatible. * Verify the ribbon-inked side. * The print density setting is incorrect.
	ווטממוז	* Clean the print head.
Poor Print Quality	 * Ribbon and media is loaded incorrectly * Dust or adhesive accumulation on the print head. * Print density is not set properly. * Print head element is damaged. * Ribbon and media are incompatible. * The print head pressure is not set properly. 	 * Reload the supply. * Clean the print head. * Clean the platen roller. * 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. * The release lever does not latch the print head properly.
Cutter is not working	* The connector is loose. * Cutter jam. * Cutter PCB is damaged.	 * Plug in the connect cable correctly. * Remove the label. * Make sure the thickness of label is less than 0.19 mm. * Replace a cutter driver IC board.
Can't downloading the file to memory (FLASH / DRAM/CARD)	* Flash/DRAM/CARD memory is full.	* Delete unused files in the memory.
SD card is unable to use	 * SD card is damaged. * SD card doesn't insert correctly. 	 * Use the supported capacity SD card. Please refer to section 2.2.1. * Insert the SD card again.
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.
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 guides do not touch the edge of the media.	* Move the label guides to fit the edge of the media. Make sure the label guides touch the edge of the media guide.

Skip labels when printing Wrinkle Problem	 * Label size is not set properly. * Sensor sensitivity is not set properly. * The media sensor is dirty. * Ribbon installation is incorrect. * Media installation is incorrect. * Print density is incorrect. 	 * Check if label size is setup correctly. * Calibrate the sensor by Auto Gap or Manual Gap options. * Clear the GAP/Black mark sensor by blower. * Please set the suitable density to have good print quality. * Make sure the label guides touch the edge of the media guide.
RTC time is incorrect when reboot the printer	* Media feeding is incorrect. * The battery has run down.	* Check if battery is installed on the main board.
The printing position of small label is incorrect	 * Media sensor sensitivity is not set properly. * Label size is incorrect. * The parameter Shift Y is incorrect. * The vertical offset setting in the driver is incorrect. 	* Calibrate the sensor sensitivity again. * Set the correct label size and gap size. * Use "Configuration Utility" to fine tune the parameter of Shift Y. * If using the software BarTender, please set the vertical offset in the driver. * Use Stock Options About Media Settings Method: Use Current Printer Setting * Lype: Labels With Gaps Gap Height: 3.00 mm Media Handling Post-Print Action: Tear Off Ogcurrence: After Every Page Intervel: Eeed Offset: 0.00 mm Vertical Offset: 0.00 mm Wetical Offset: 0.00 mm Wetical Offset: 0.00 mm Start Start Star

8. Maintenance

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

- 1. Please use one of following material to clean the printer.
 - Cotton swab
 - Lint-free cloth
 - Vacuum / Blower brush
 - 100% Ethanol or Isopropyl Alcohol
- 2. The cleaning process is described as following,

Printer Part	Method	Interval
clean 2. Allow minim 3. Use a or Iso	vs turn off the printer before ng the print head. the print head to cool down for a um of one minute. a cotton swab and 100% Ethanol propyl Alcohol to clean the print surface.	Clean the print head when changing a new label roll.
		Print Head
Print Head	Print Head Element Ele	Element
Platen Roller 2. Rotat	the power off. e the platen roller and wipe it ughly with water.	Clean the platen roller when changing a new label roll
Peel Bar Use the to wipe	lint-free cloth with 100% ethanol t.	As needed
Sensor Compre	ssed air or vacuum	Monthly
Exterior Wipe it y	with water-dampened cloth	As needed

Note:

- Do not touch printer head by hand. If you touch it careless, please use ethanol to clean it.
- Please use 100% Ethanol or Isopropyl Alcohol. DO NOT use medical alcohol, which may damage the printer head.
- Regularly clean the print head and supply sensors once change a new media to keep printer performance and extend printer life.

- Continuous printing will cause the printer motor to overheat. The printer will stop printing automatically for about 10~15 minutes while the motor is cooling down. Do not turn the power off when the printer pauses or the data transferred to the printer buffer will be lost.
- The maximum printing ratio per dot line is 15% for this printer. To print the full web black line, the maximum black line height is limited to 40 dots, which is 5mm for 203 DPI resolution printer and 3.3mm for 300 DPI resolution printer only, otherwise this may damage the power supply.

Revision History

Date	Revision	Content
2017/5/15	A	Initial Release

