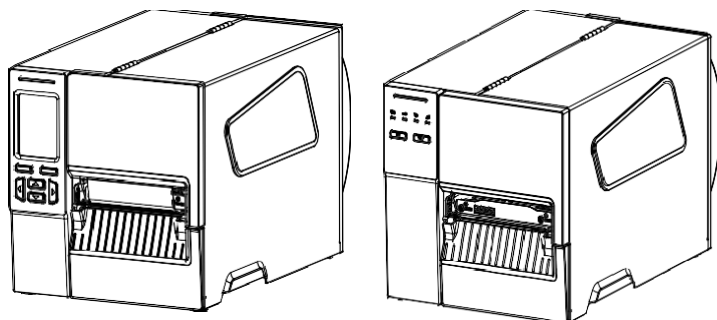


LP-1 Series

**THERMAL TRANSFER / DIRECT THERMAL
BAR CODE PRINTER**

**USER'S
MANUAL**



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Agency Compliance and Approvals



EN 55032, Class A

EN 55035

EN 60950-1

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



FCC part 15B, Class A

ICES-003, Class A

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

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

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

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

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



AS/NZS CISPR 32, Class A



UL 62368-1
CSA C22.2 No. 62368-1



EN 62368-1



KN 32 / KN 35 / K 60950-1

이 기기는 업무용(A 급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

GB 4943.1

GB 9254, Class A



GB 17625.1

此为 A 级产品，在生活环境中，该产品可能会造成无线电干扰，
在这种情况下，可能需要用户对干扰采取切实可行的措施。



Energy Star for Imaging Equipment Version 2.0



IS 13252(Part 1)/

IEC 60950-1

CNS 13438



CNS 14336-1

CNS 15663



LP0002

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

Important safety instructions:

1. Read all of these instructions and keep them for later use.
2. Follow all warnings and instructions on the product.
3. Disconnect the power plug from the AC outlet before cleaning or if fault happened.

Do not use liquid or aerosol cleaners. Using a damp cloth is suitable for cleaning.

4. The mains socket shall be installed near the equipment and easily accessible.
5. The unit must be protected against moisture.
6. Ensure the stability when installing the device, Tipping or dropping could cause damage.
7. Make sure to follow the correct power rating and power type indicated on marking label provided by manufacture.
8. Please refer to user manual for maximum operation ambient temperature.

WARNING:

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

CAUTION:

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

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

Dispose of used batteries according to the Instructions as below.

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



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

WARNING:

For operation safety, please turn off the power by the power switch before opening the media cover to load labels, ribbons, or to repair. After completing the steps, please close the media cover first and then turn on the power to start printing.

CAUTION:

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

Below statement are for product with optional RF function.

CE Statement:

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

All operational modes:

2.4GHz: 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40)

5GHz: 802.11a,

The frequency, mode and the maximum transmitted power in EU are listed below:

2400 MHz – 2483.5 MHz: 19.88 dBm (EIRP)(Wi-Fi)

5150 MHz – 5250 MHz: 17.51 dBm (EIRP)(Wi-Fi)

2402 MHz – 2480 MHz: 6.02 dBm (EIRP)(Bluetooth)

Requirements in
AT/BE/BG/CZ/DK/EE/FR/DE/IS/IE/IT/EL/ES/CY/LV/LI/LT/LU/HU/MT/NL/NO/PL/PT/RO/SI/SK/TR/FI/S
E/CH/UK/HR. 5150MHz~5350MHz is for indoor use only.

5150-5350MHz for Only indoor use

5470-5725MHz for indoor/outdoor use



Restrictions In AZE

National restrictions information is provided below

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

Hereby, AirTrack. declares that the radio equipment type [W i-Fi] IEEE 802.11 a/b/g/n is in compliance with Directive 2014/53/EU

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:

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

前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。(即低功率電波輻射性電機管理辦法第十四條)

BSMI Class A 警語:

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

MFi for Bluetooth



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

For US Model

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

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For JP Model

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

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Except for US, JP Model

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

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1. Introduction

1.1 Product Introduction

Thank you for purchasing the AirTrack barcode printer.

The new high-performance LP-1 Series was designed to deliver the cleanest and high quality barcodes. It features a die-cast print mechanism housed in a very strong yet lightweight cabinet. This new design results in a more durable printer that is suited for your most heavy-duty demand cycles.

There are two models available. The LP-1 prints at 203 dpi series are at speeds up to 8 inches per second, or provides higher 300 dpi resolution at speeds up to 6 inches per second, which makes it ideal for printing very small 2D barcodes, graphics, fine print, and other ultra-high-resolution images.

The LP-1 Series printers are loaded with standard features including a color touch display with brand-new GUI design and six menu buttons to provide a great user experience. LP-1 series support for 450 meter long ribbons, 8" OD media rolls, built-in Ethernet, RS-232 interface and USB host for keyboard and scanner connections. GPIO ports, Wi-Fi module, and internal Bluetooth module are available as an option.

This manual provides the essential information and clear instructions for operating LP-1 series. To print label formats, please refer to the instructions provided with your labeling software; if you need to write the custom programs, please reach out to us at www.airtrack.com.

– Applications

- Industrial-duty Printing
- Work in process Labeling
- Compliance labeling
- Order Fulfillment
- Distribution
- Shipping/ Receiving
- Warehousing/ Distribution
- Electronics & Jewelry labeling

1.2 Product Features

1.2.1 Printer Standard Features

The printer offers the following standard features.

Product standard feature				
Model	LP-1 203 dpi	LP-1 300 dpi		
Resolution	203 dots/inch (8 dots/mm)	300 dots/inch (12 dots/mm)		
Printing method	Thermal transfer & direct thermal			
Mechanism	Die-cast base and frame/ Metal cover with two hinges & large clear media view window			
LCD display/ Operation buttons	<ul style="list-style-type: none">■ Multi-language selectable■ 3.5" color touch display,■ HVGA 320 x 480 pixel■ 6 operation buttons (menu, feed/pause, up, down, left, right)			
Processor	32-bit RISC high performance processor			
Memory	<ul style="list-style-type: none">■ 128MB Flash memory■ 128MB DRAM			
Interface	<ul style="list-style-type: none">■ USB 2.0 (High speed mode)■ Internal Ethernet print server (10/100 Mbps)■ RS-232 (Max. 115,200 bps)■ USB host *1, connecting USB storage device			
Sensors	<ul style="list-style-type: none">■ Gap transmissive sensor (Position adjustable, 5 mm → 88 mm)■ Black mark reflective sensor (Position adjustable, 0 mm → 81.7 mm)■ Ribbon encoder sensor■ Ribbon end sensor (Transmissive)■ Head open sensor			
Internal font	<ul style="list-style-type: none">■ 8 alpha-numeric bitmap fonts■ One Monotype Imaging® CG Triumvirate Bold Condensed scalable font■ Built-in Monotype True Type Font engine			
Supported code page	<ul style="list-style-type: none">■ Codepage 437 (English - US)■ Codepage 737 (Greek) -■ Codepage 850 (Latin-1)■ Codepage 852 (Latin-2)■ Codepage 855 (Cyrillic) -■ Codepage 857 (Turkish)■ Codepage 860 (Portuguese)■ Codepage 861 (Icelandic) -■ Codepage 862 (Hebrew) -■ Codepage 863 (French Canadian)■ Codepage 864 (Arabic) -■ Codepage 865 (Nordic)■ Codepage 866 (Russian) -■ Codepage 869 (Greek 2) -■ Codepage 950 (Traditional Chinese)■ Codepage 936 (Simplified Chinese)■ Codepage 932 (Japanese)			

	<input type="checkbox"/> Codepage 949 (Korean) <input type="checkbox"/> Codepage 1250 (Latin-2) <input type="checkbox"/> Codepage 1251 (Cyrillic) <input type="checkbox"/> Codepage 1252 (Latin-1) <input type="checkbox"/> Codepage 1253 (Greek) <input type="checkbox"/> Codepage 1254 (Turkish) <input type="checkbox"/> Codepage 1255 (Hebrew) - <input type="checkbox"/> Codepage 1256 (Arabic) <input type="checkbox"/> Codepage 1257 (Baltic) <input type="checkbox"/> Codepage 1258 (Vietnam) <input type="checkbox"/> ISO-8859-1: Latin-1 (Western European) <input type="checkbox"/> ISO-8859-2: Latin-2 (Central European) <input type="checkbox"/> ISO-8859-3: Latin-3 (South European) <input type="checkbox"/> ISO-8859-4: Latin-4 (North European) <input type="checkbox"/> ISO-8859-5: Cyrillic <input type="checkbox"/> ISO-8859-6: Arabic <input type="checkbox"/> ISO-8859-7: Greek <input type="checkbox"/> ISO-8859-8: Hebrew <input type="checkbox"/> ISO-8859-9: Turkish <input type="checkbox"/> ISO-8859-10: Nordic <input checked="" type="checkbox"/> ISO-8859-15: Latin-9 <input type="checkbox"/> UTF-8	
Supported bar code	1D bar code Code128 subsets A.B.C, Code128UCC, EAN128, Interleave 2 of 5, Code 39, Code 93, EAN-13, EAN-8, Codabar, POSTNET, UPC-A, UPC-E, EAN and UPC 2(5) digits, MSI, PLESSEY, China Post, ITF14, EAN14, Code 11, TELPEN, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS, RSS-Stacked, GS1 DataBar.	2D bar code CODABLOCK F mode, DataMatrix, Maxicode, PDF-417, Aztec, MicroPDF417, QR code, RSS Barcode (GS1 Databar)
Command set	TSPL-EZD™	
Font & bar code rotation	0, 90, 180, 270 degree	
Others	<input checked="" type="checkbox"/> Standard for real time clock <input checked="" type="checkbox"/> Standard for buzzer <input checked="" type="checkbox"/> Standard industry emulations right out of the box including Eltron® and Zebra® language support <input checked="" type="checkbox"/> Built-in Monotype True Type Font engine <input checked="" type="checkbox"/> Downloadable fonts from PC to printer memory	

1.2.2 Printer Optional Features

The printer offers the following optional features.

Product option feature	User option	Dealer option	Factory option
GPIO interface (Wi-Fi excluded)		<input type="radio"/>	<input type="radio"/>
Internal Bluetooth 4.2 MFi module in front panel Note: Option for either Wi-Fi or Bluetooth only, not coexistence.		<input type="radio"/>	<input type="radio"/>
Wi-Fi module kit Note: Option for either Wi-Fi or Bluetooth only, not coexistence.		<input type="radio"/>	<input type="radio"/>
Wi-Fi module (with slot-in housing installed already) Note: Option for either Wi-Fi or Bluetooth only, not coexistence.	<input type="radio"/>		
Peel-off module assembly (include internal liner rewinder) Minimum label peeling height: 1"		<input type="radio"/>	<input type="radio"/>
Regular cutter (Guillotine cutter, max: 4 ips) Media thickness: 0.06 ~ 0.28 mm Media type: receipt, tag, and label liner w/o glue		<input type="radio"/>	<input type="radio"/>
5" O.D Full Internal Rewinding module		<input type="radio"/>	
KP-200 Plus keyboard display unit	<input type="radio"/>		
KU-007 Plus programmable smart keyboard	<input type="radio"/>		

Note:

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

1.3 Printer Specifications

Printer Specifications				
Model	LP-1 203 dpi	LP-1 300 dpi		
Physical dimensions	248 (W) x 274 (H) x 436 (D) mm			
Weight	9.2 kg			
Power	Auto sensing power supply (20% print ratio) ■ Input: AC 100-240V, ~2.0A, 50-60Hz ■ Output: DC 24V, 3.75A; 90W			
Environmental condition	■ Operation: 0 ~ 40°C (32 ~ 104°F), 25~85% non-condensing ■ Storage: -40 ~ 60 °C (-40 ~ 140°F), 10~90% non-condensing			
Environmental concern	Comply with Energy Star 2.0, REACH, RoHS, and WEEE			

1.4 Print Specifications

Print Specifications	203 dpi models	300 dpi models
Print head resolution (dots per inch/mm)	203 dots/inch (8 dots/mm)	300 dots/inch (12 dots/mm)
Printing method	Thermal transfer and direct thermal	
Dot size (width x length)	0.125 x 0.125 mm (1 mm = 8 dots)	0.084 x 0.084 mm (1 mm = 12 dots)
Print speed (inches per second)	2,3,...10 ips Up to 10 ips	2,3,...7 ips Up to 7 ips
Max. print width	108 mm (4.25")	105.7 mm (4.16")
Max. print length	1000" (25,400 mm)	450" (11,430 mm)
Printout bias	Vertical: ~Max. 1 mm. Horizontal: Max. 1 mm	

1.5 Ribbon Specifications

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

Note: It is recommended to use the ribbon width longer than label width.

1.6 Media Specifications

Media Specifications	
Media roll capacity	Max. 8" (203.2 mm) O.D.
Media core diameter	1"~ 3" (25.4 mm ~ 76.2 mm) I.D. core
Media type	Continuous, die-cut, black mark, fan-fold, notch
Media wound type	Outside wound
Media width	20 mm ~ 120 mm (0.79" ~ 4.72") (Cutter mode: max. 114 mm)
Media thickness	0.06 mm ~ 0.28 mm
Label length	<ul style="list-style-type: none"> 5 mm ~ 25,400 mm (203 dpi series) 5 mm ~ 11,430 mm (300 dpi series)
Label length (peeler mode)	25.4mm ~ 152.4mm (1" ~ 6")
Label length (cutter mode)	<ul style="list-style-type: none"> 25.4~2,286 mm (1" ~ 90") ----- 203dpi 25.4~1016 mm (1" ~ 40") ----- 300dpi
Black mark	Min. 8 mm (W) x Min. 2 mm (H)
Gap height	Min. 2 mm

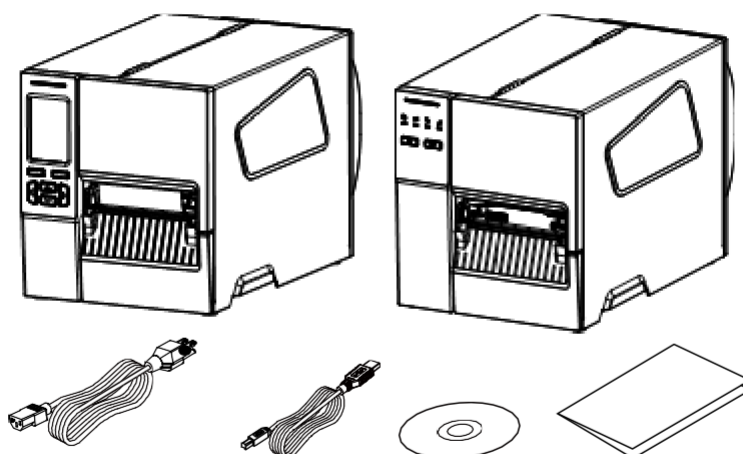
2. Operations Overview

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.

- One printer unit
- One quick installation guide
- One power cord
- One USB interface cable
- One Windows labeling software/Windows driver CD disk



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

Note: Check the production date

Serial NO.: XXX 17 22 XXXX

YEAR WEEK
Год Неделю

2.2 Printer Overview

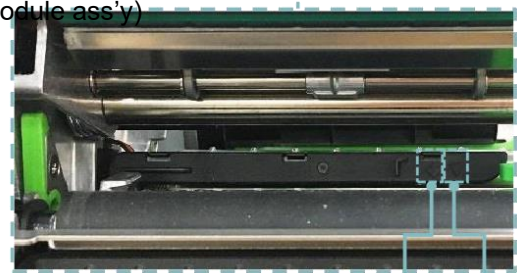
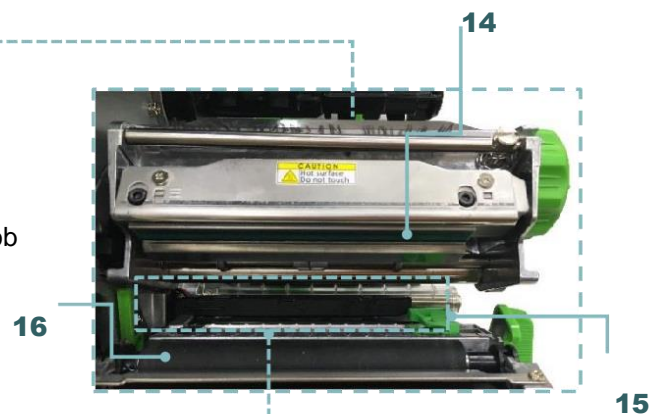
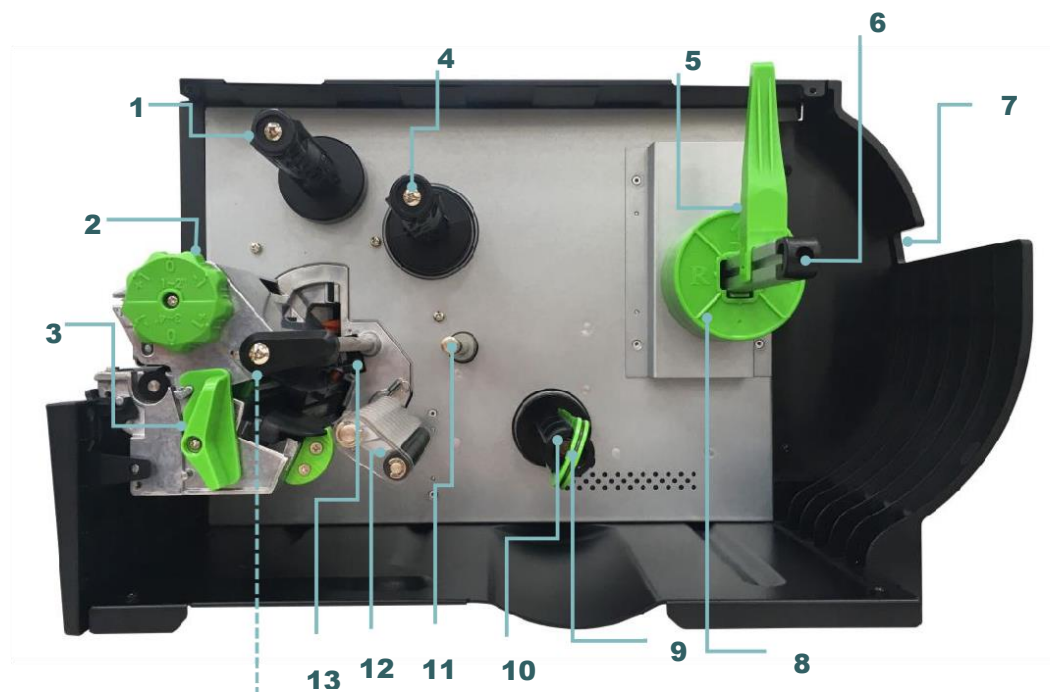
2.2.1 Front View

For LP-1 Series



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

2.2.2 Interior view For LP-1 Series



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

2.2.3 Rear View

For LP-1 Series

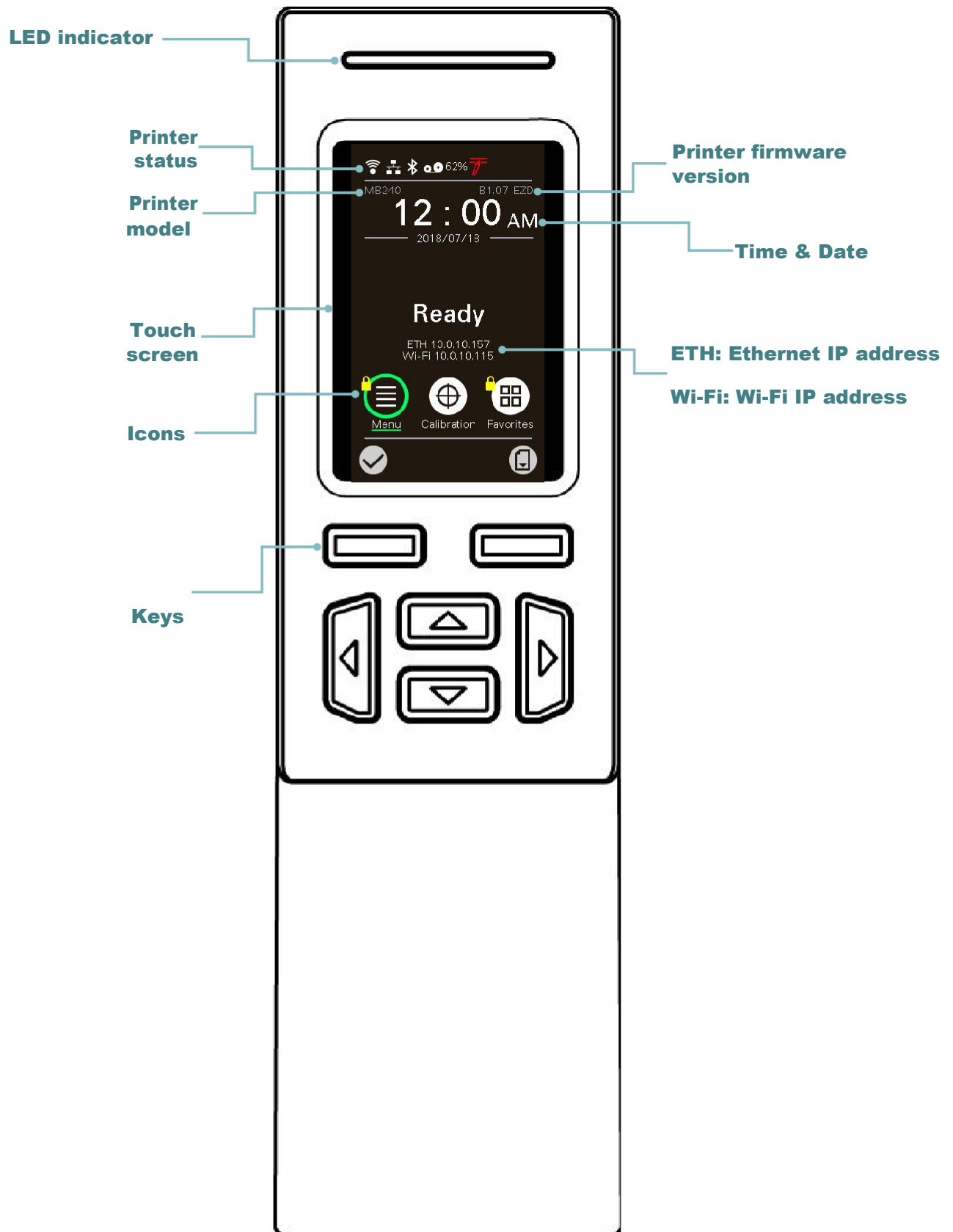


1. External label entrance chute
2. Power switch
3. USB interface (High speed mode)
4. Slot-in Wi-Fi or GPIO interface (Option)
5. USB host
6. RS-232C interface
7. Ethernet interface
8. Power cord socket








Note:

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






2.3 Operator Control









2.3.1 LED Indication and Keys

LED	Status	Indication						
	Green	Solid	This illuminates that the power is on and the device is ready to use.					
		Flash	This illuminates that the system is downloading data from PC to memory and or printer is paused.					
	Amber	This illuminates that the system is clearing data from printer.						
	Red	Solid	This illuminates printer head open, cutter error.					
		Flash	This illuminates a printing error, such as head open, paper empty, paper jam, ribbon empty, or memory error etc.					
LP-1 Series								
Keys	Function							
Select keys 	The labels on the footer of the UI will explain the function for left and right soft key. Check the labels on the footer of the UI screen. The meaning of the select keys will vary.							
Navigational keys 	Used to select icons, menu selection and navigation in the UI.							
LP-1 Series								
Keys								
Status	On	On	Blinking	On	Blinking	On	Blinking	
Function	Print head open	Out of ribbon	Ribbon near end	Out of paper	Paper jam	RF connected	RF communication	

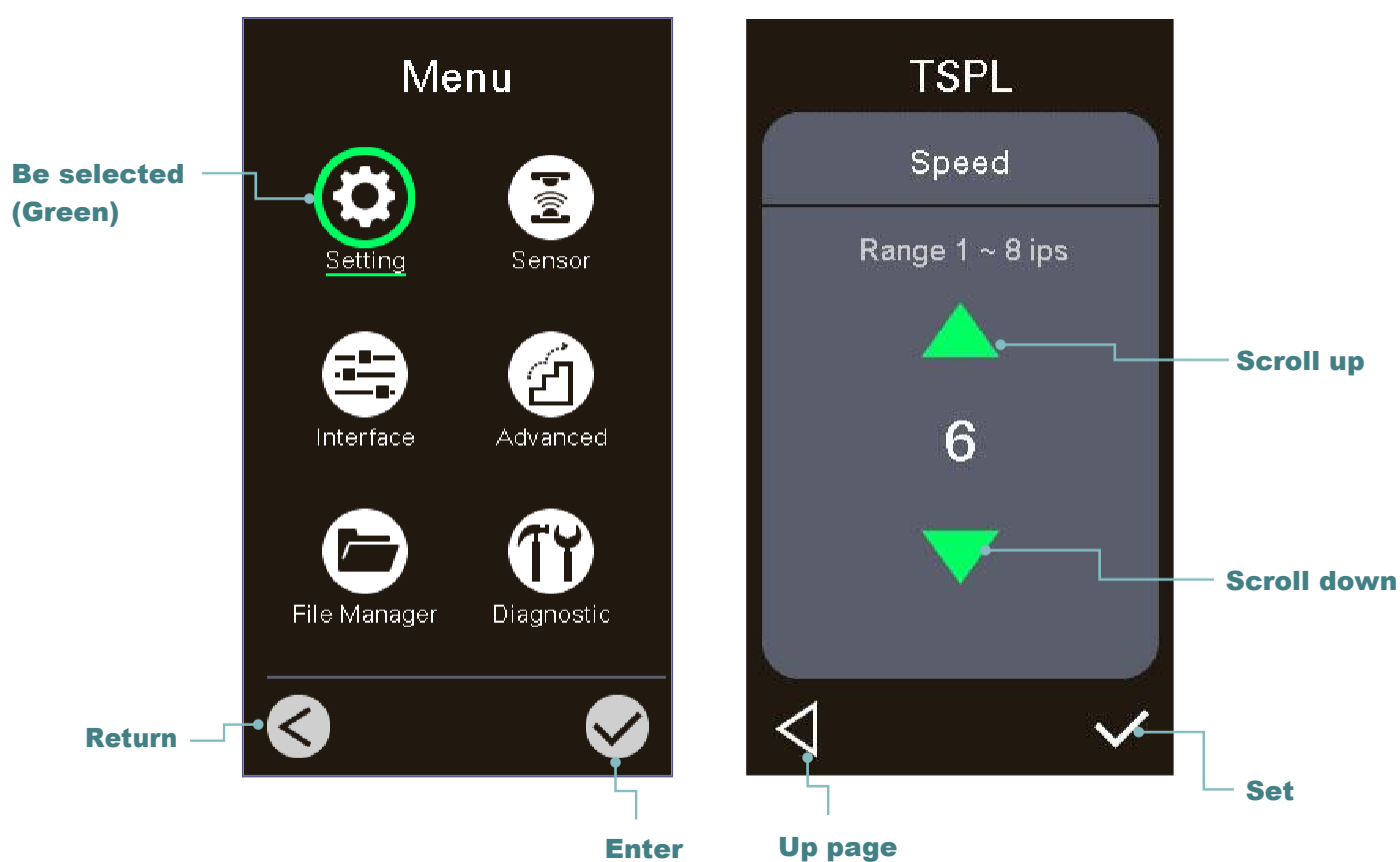
2.3.2 Main page Icons

Indicated icon	Indication
	Wi-Fi device is ready (option)
	Ethernet is connected
	Bluetooth device is ready (option)
	Ribbon capacity %
	Security lock

	TPH cleaning
Icon button	Function
	Enter the menu
	Calibrate the media sensor
	Enter the “Favorites” option (please refer to section 6.9)
	Enter cursor (be marked in green) located option
	Feed button (advance one label)

2.3.3 Touch Screen

Tap an item to open/use it.



Note:

For LCD Menu panel, please refer to section 6 for more details.

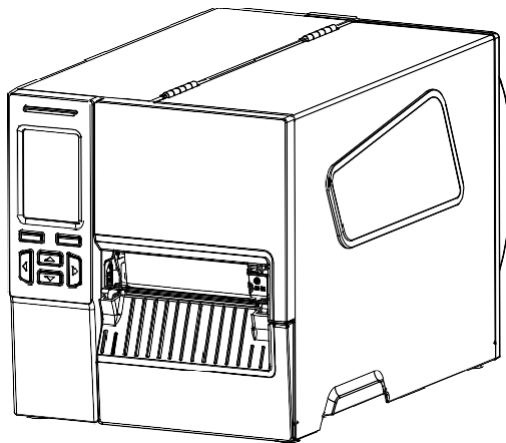
3. Setup

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.

LP-1 Series



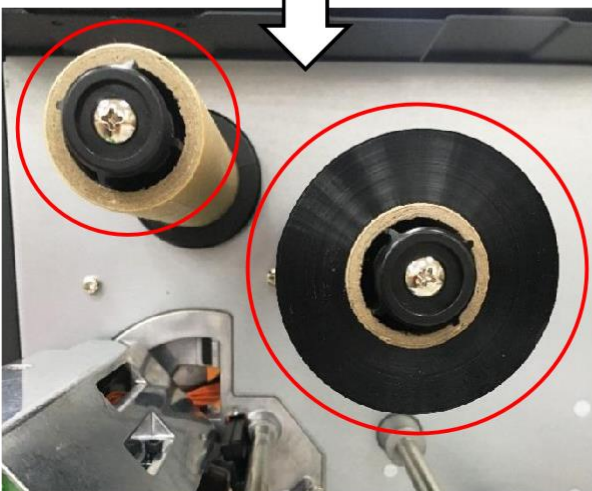
3.2 Loading the Ribbon



1. Open the printer right side cover.

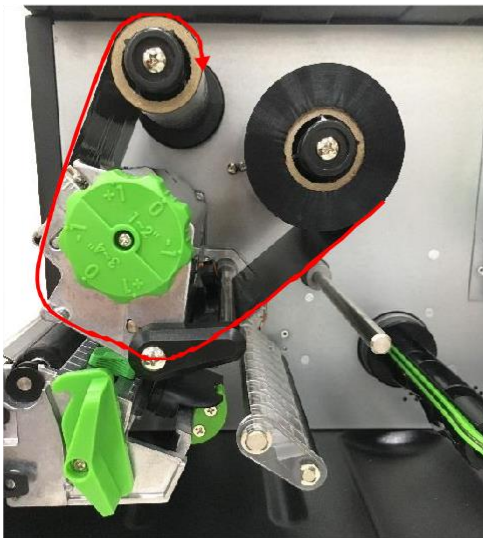


2. Install the ribbon onto ribbon supply spindle and install paper core onto ribbon rewind spindle.





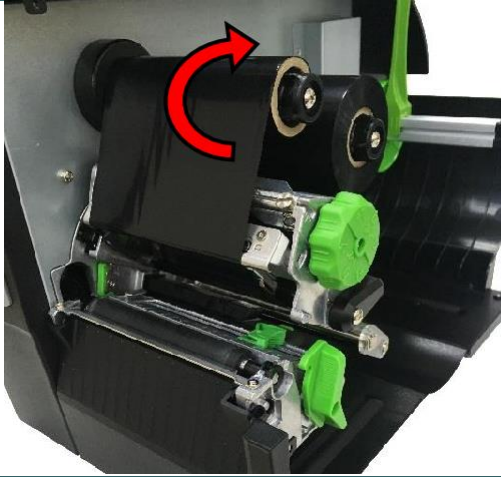
3. Push the Print head release lever to open print head mechanism.



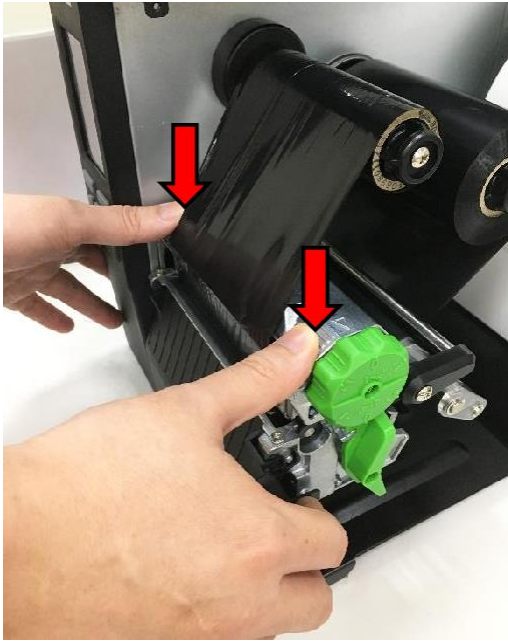
4. Thread ribbon below the ribbon guide bar through ribbon sensor slot as the loading path printed on the printer.



5. Stick the ribbon leader onto the paper core. Keep the ribbon flat and without wrinkle.

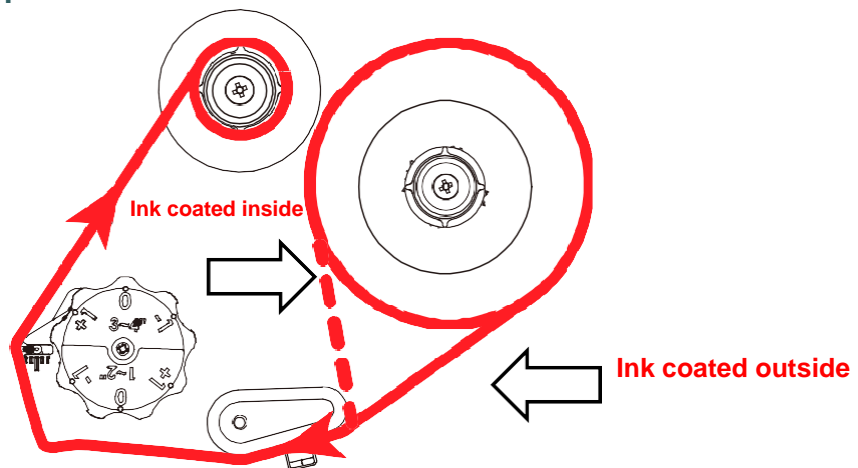


6. Wind the ribbon rewind spindle counterclockwise roughly 3~5 circles until the ribbon is smooth, properly stretched and wrinkle-free.

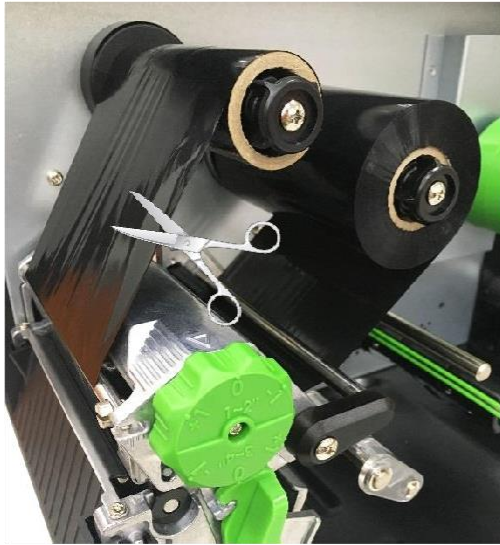


7. Close the print head mechanism by pushing down the both sides of the print head release lever.

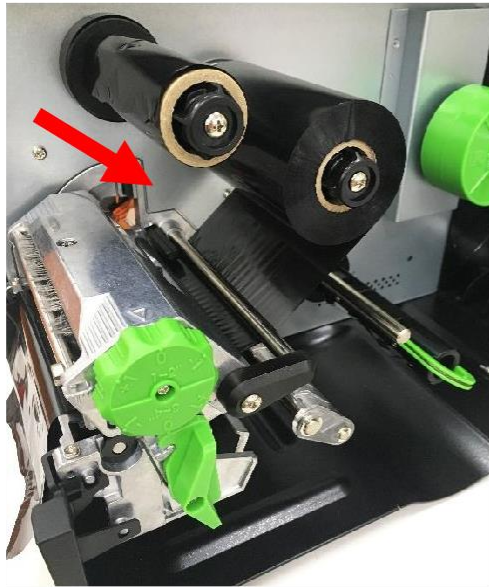
Ribbon loading path



3.3 Remove Used Ribbon



1. Break the ribbon between ribbon guide plate and the ribbon rewind spindle.



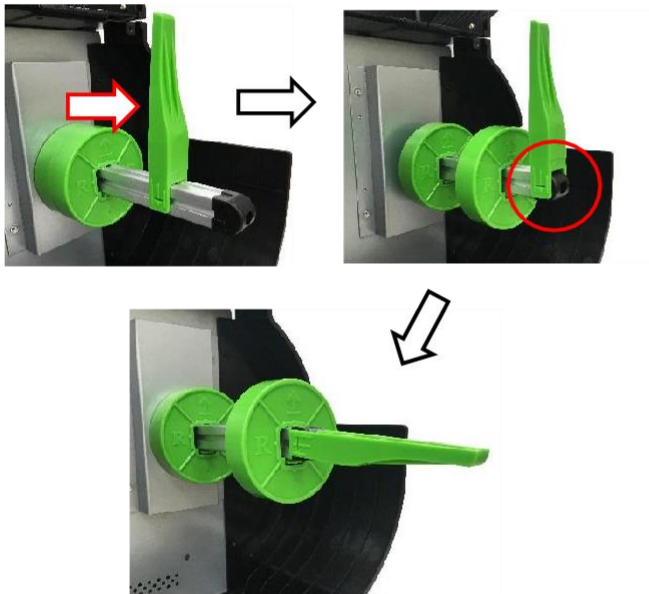
2. Slide the ribbon off to release the ribbon on the ribbon rewind spindle.

3.4 Loading the Media

3.4.1 Loading the Media



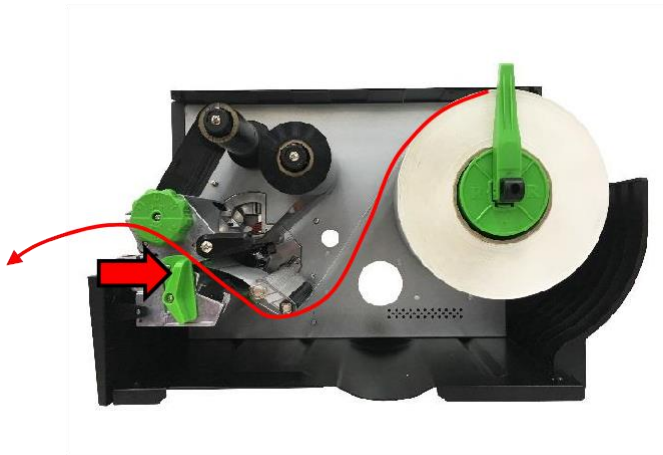
1. Open the printer right side cover.



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



3. Place the media roll on the label supply spindle and use label roll guard to fix it.

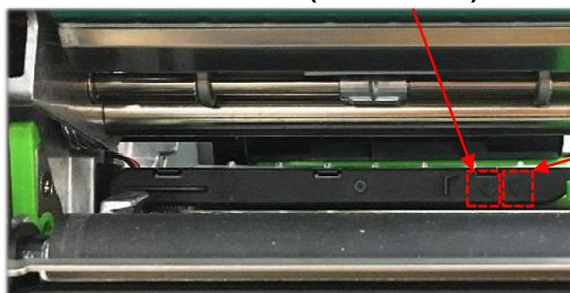


4. Push the print head release lever and install the label through the damper, media sensor, and label guide to install the media.

5. Move the media sensor by adjusting the media sensor position adjustment knob, make sure the gap or black mark sensor is at the location where media gap/black mark will pass through for sensing.

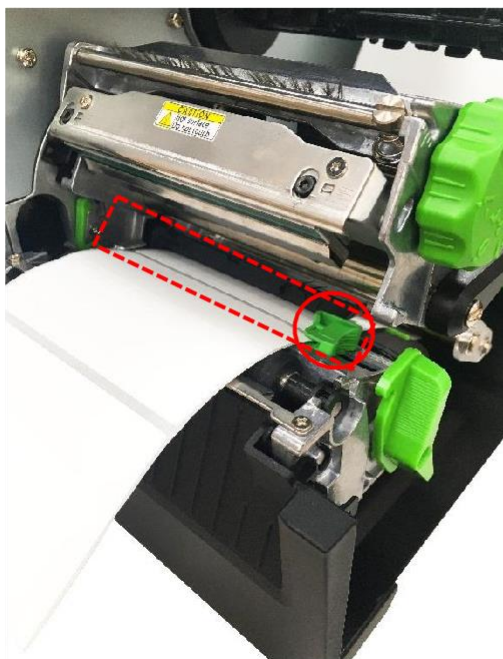
Black mark sensor

(shown as ↓)



Gap sensor

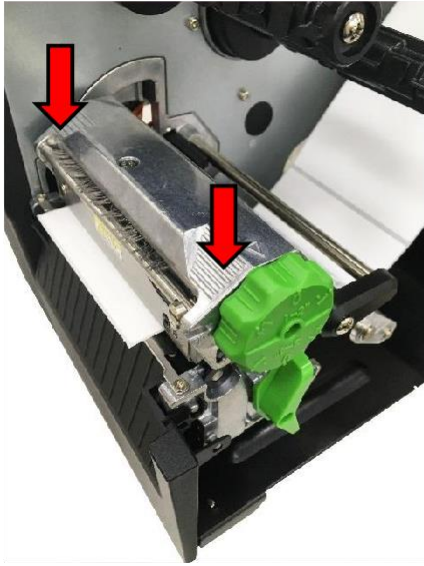
(shown as ▽)



6. Adjust the label guide to fix the media position.

Note:

- * Please install the media through the media sensor.
- * The sensor location is marked by a triangle mark ▽ (gap sensor) and arrow mark ↓ (black mark sensor) at the sensor housing.
- * The media sensor position is movable, please make sure the gap or black mark is at the location where media gap/black mark will pass through for sensing.



7. Close the print head mechanism on both sides and make sure the latches are engaged securely.
8. Set media sensor type and calibrate the selected sensor.

Note:

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

3.4.2 Loading the Fanfold/External Media

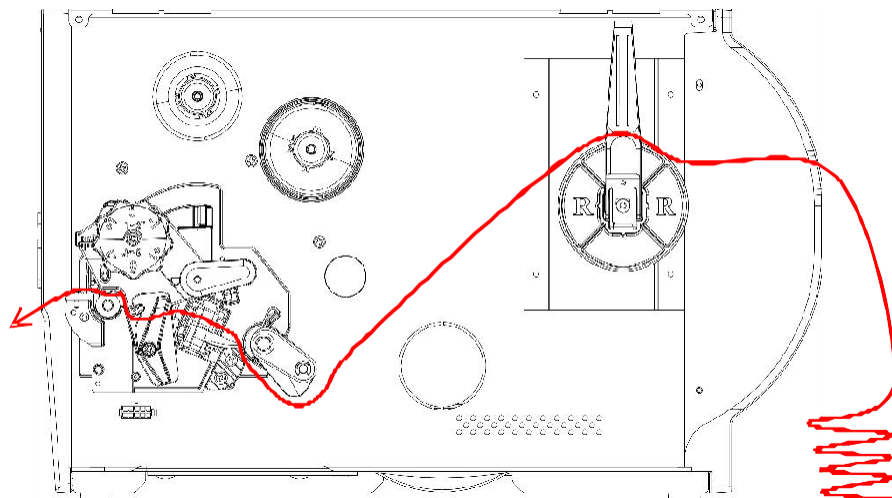


1. Open the printer right side cover.
2. Insert the fanfold media through the rear external label entrance chute.
3. Please refer to section 3.4.1 step 4~8 for loading media.

Note:

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

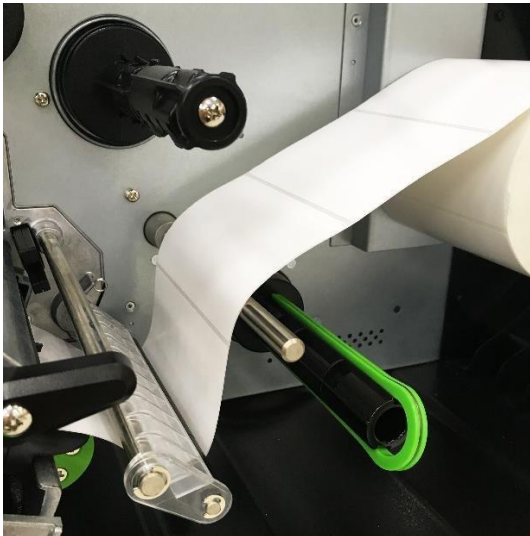
Loading path for fan-fold labels



3.4.3 Loading Media in Peel-off Mode (Option)



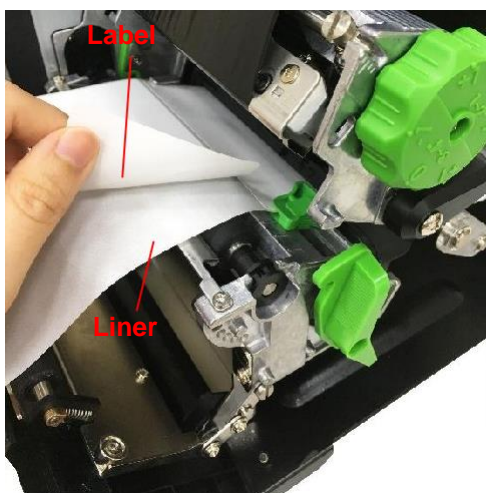
1. Open the printer right side cover.
2. Please refer to section 3.4.1 for loading media.



3. Using the front display panel to do the calibration first and set the printer mode to peeler mode.

Note:

1. Please calibrate the gap/black mark sensor before loading media in the peel-off mode to avoid the paper jam.
2. Please feed the label through media guide bar as picture shown.



4. Open print head release lever, pull approximately 650 mm of the label through the front of the printer.
5. Remove several labels to leave liner.



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



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



Note: The media rewind spindle can also install paper roll to wind the media on media rewind spindle.



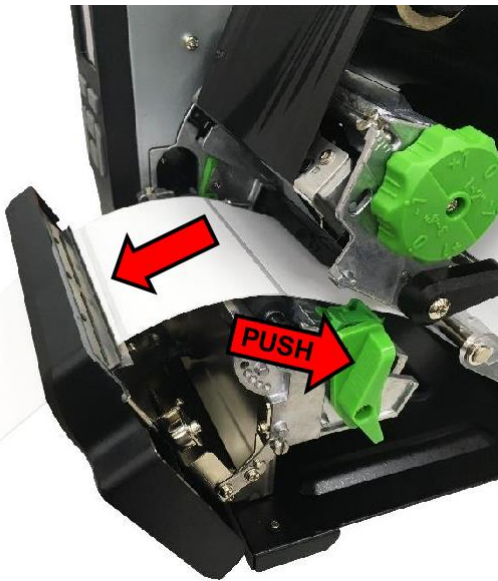


9. Close print head release lever and press the FEED button to test.

3.4.4 Loading Media in Cutter Mode (Option)



1. Open the printer right side cover.
2. Please refer to section 3.4.1 for loading media.
3. Using the front display panel to do the calibration and set the printer mode to cutter mode.



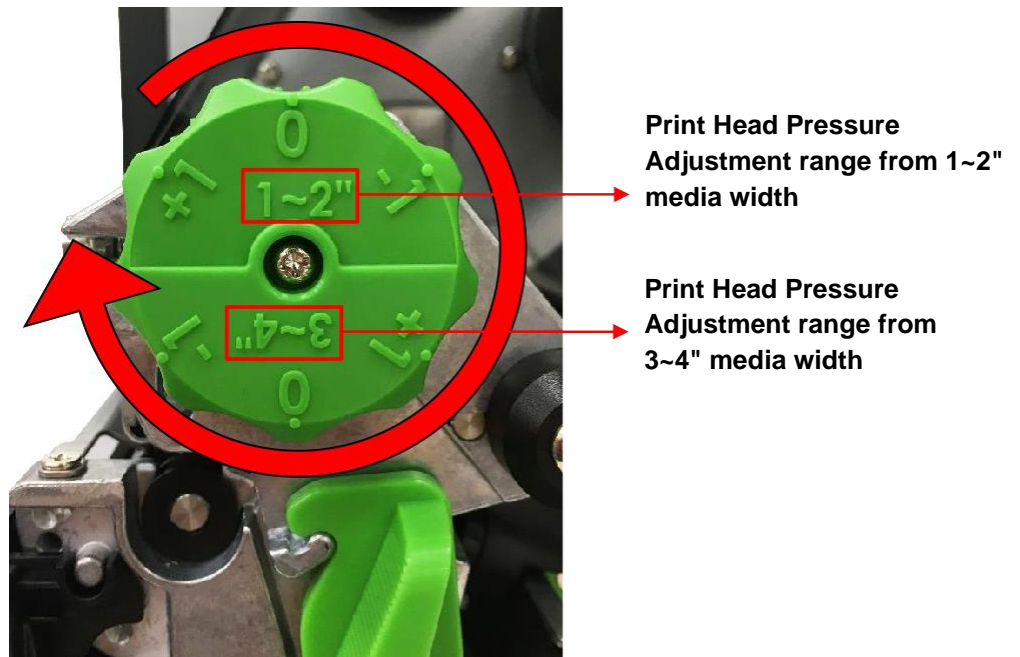
4. Push the Print head release lever to open print head mechanism. Lead the media through the cutter paper opening.



5. Close the print head mechanism and press the FEED button to test.

4. Adjustment Knob

4.1 Print Head Pressure Adjustment Knob



The print head pressure adjustment knob has 6 levels of adjustment for 1~2" and 3~4" media widths. Because the printer's paper alignment is to the left side of mechanism, different media widths require the different pressure to print the label correctly. Therefore, it may require adjusting pressure to get the best print quality.

4.2 Ribbon Tension Adjustment Knob Module



Ribbon Tension Adjustment Knob has five positions for adjustment. Because the printer's ribbon alignment is to the left side of mechanism, different ribbon or media widths require different ribbon tension to print correctly. Therefore, it may require to adjust the ribbon tension adjustment knob to avoid wrinkle and get the best print quality.


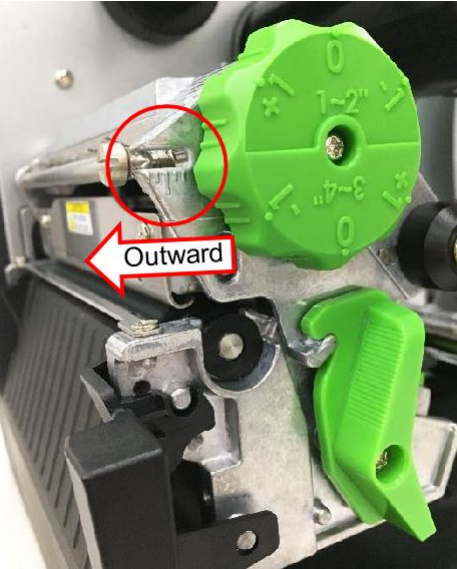


Ribbon Tension Adjustment Knob

4.3 Mechanism Fine Adjustment to Avoid Ribbon Wrinkles

This printer has been fully tested before delivery. There should be no ribbon wrinkle presented on the media for general-purpose printing application. Ribbon wrinkle is related to the media width, thickness, print head pressure balance, ribbon film characteristics, print darkness setting...etc. In case the ribbon wrinkle happens, please follow the instructions below to adjust the printer parts.


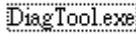
<p>Adjustable Printer Parts</p>	<p>Ribbon Tension Adjustment Knob has 5 positions for adjustment. Use flat blade driver to change the ribbon tension position.</p> <div style="display: flex; justify-content: space-around;">   </div> <div style="display: flex; justify-content: space-around;"> <p>Ribbon Tension Adjustment scales</p> <p>Ribbon Tension Adjustment Knob</p> </div>	
<p>Symptom</p>	<p>1. Wrinkle happens from label lower right to upper left direction (“↖”)</p>	<p>2. Wrinkle happens from label lower left to upper right direction (“↗”)</p>
<p>Wrinkle Example</p>	<div style="display: flex; align-items: center; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MODEL NO.: SERIAL NO.: INPUT: 115/230V~, 5/3A, 50/60Hz</p> <p>This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.</p> <p>THIS DEVICE COMPLIES WITH CANADA ICES-003 CLASS A</p> <p>UL LISTED E178787 TUV CE RoHS</p> <p>MADE IN TAIWAN</p> </div> <div style="font-size: 2em; color: blue;">↓</div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Feed direction</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MODEL NO.: SERIAL NO.: INPUT: 115/230V~, 5/3A, 50/60Hz</p> <p>This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.</p> <p>THIS DEVICE COMPLIES WITH CANADA ICES-003 CLASS A</p> <p>UL LISTED E178787 TUV CE RoHS</p> <p>MADE IN TAIWAN</p> </div> </div>	

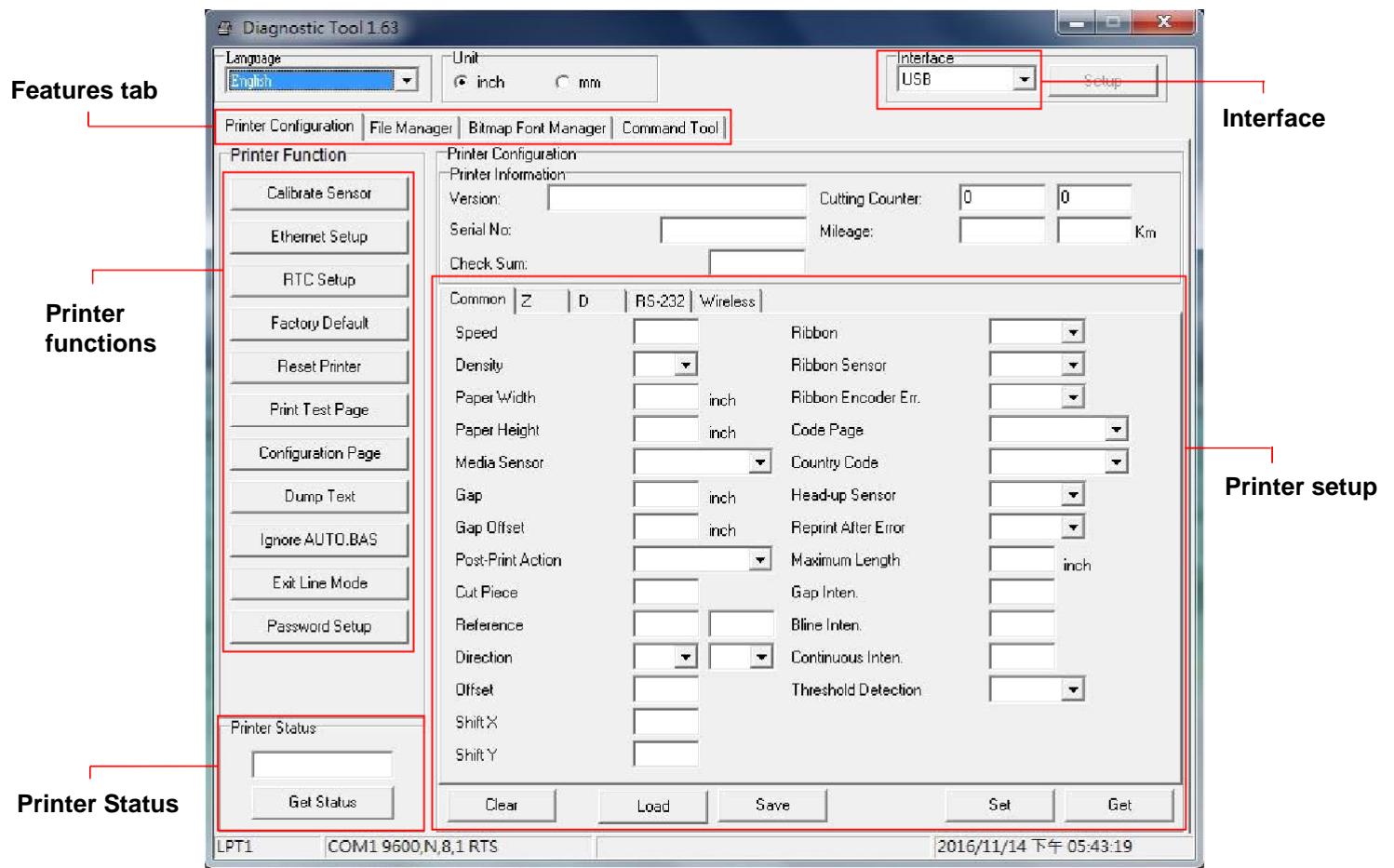
<p>If the wrinkle on the label starts from the lower right side to upper left side, please do following adjustment.</p> <ol style="list-style-type: none"> 1. Switch the ribbon tension adjustment knob clockwise per 1 level and print the label again to check if the wrinkle is gone.  <ol style="list-style-type: none"> 2. If the ribbon tension adjustment knob has positioned on the level of innermost side but didn't improve the ribbon wrinkle, please switch the print head pressure adjustment knob per 1 level and print the label again to check if the wrinkle is gone. 3. If the wrinkle can't be avoided, please contact the Customer Service Department of your purchased reseller or distributor for service. 	<p>If the wrinkle on the label starts from the lower left side to upper rightside, please do following adjustment.</p> <ol style="list-style-type: none"> 1. Switch the ribbon tension adjustment knob counterclockwise per 1 level and print the label again to check if the wrinkle is gone.  <ol style="list-style-type: none"> 2. If the ribbon tension adjustment knob has positioned on the level of outermost side but didn't improve the ribbon wrinkle, please switch the print head pressure adjustment knob per 1 level and print the label again to check if the wrinkle is gone. 3. If the wrinkle can't be avoided, please contact the Customer Service Department of your purchased reseller or distributor for service.
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5. Diagnostic Tool

AirTrack's Diagnostic 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.

5.1 Start the Diagnostic Tool

1. Double click on the Diagnostic tool icon   to start the software.
2. There are four features (Printer Configuration, File Manager, Bitmap Font Manager, Command Tool) included in the Diagnostic utility.



5.2 Printer Function

1. Connect the printer and computer with a cable.
2. Select the PC interface connected with bar code printer.

USB cable	Other cable
<p>Interface USB</p> <p>Setup</p> <p>The default interface setting is USB interface. If USB interface is connected with printer, no other settings need to be changed in the interface field.</p>	<p>Interface</p> <p>COM</p> <p>USB</p> <p>COM 1</p> <p>LPT</p> <p>ETHERNET</p> <p>Setup 2</p>


3. Click the “Printer Function” button to setup.
4. The detail functions in the Printer Function Group are listed as below.

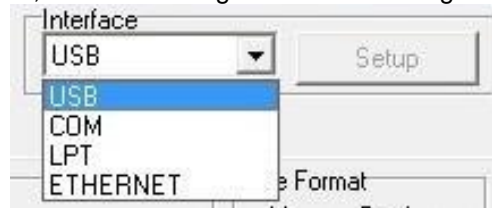
Printer Function	Function	Description
Calibrate Sensor	Calibrate Sensor	Calibrate the sensor specified in the Printer Setup group media sensor field
Ethernet Setup	Ethernet Setup	Setup the IP address, subnet mask, gateway for the on board Ethernet
RTC Setup	RTC Setup	Synchronize printer Real Time Clock with PC
Factory Default	Factory Default	Initialize the printer and restore the settings to factory default.
Reset Printer	Reset Printer	Reboot printer
Print Test Page	Print Test Page	Print a test page
Configuration Page	Configuration Page	Print printer configuration
Dump Text	Dump Text	To activate the printer dump mode.
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

5.3 Setting Ethernet by Diagnostic Tool

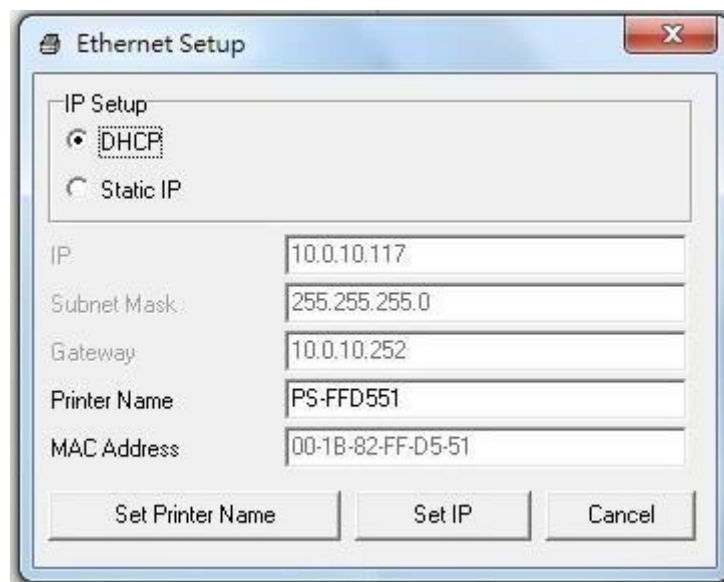
The Diagnostic Utility is enclosed in the CD disk \ Utilities directory. Users can use Diagnostic Tool to setup the Ethernet by RS-232, USB and Ethernet interfaces. The following contents will instruct users how to configure the Ethernet by these three interfaces.

5.3.1 Using USB interface to setup Ethernet interface


1. Connect the printer and computer with USB cable.
2. Turn on the printer power switch.
3. Start the Diagnostic Utility by double clicking on the  **DiagTool.exe** icon.
4. The Diagnostic Utility default interface setting is USB interface. If USB interface is connected with printer, no other settings need to be changed in the interface field.

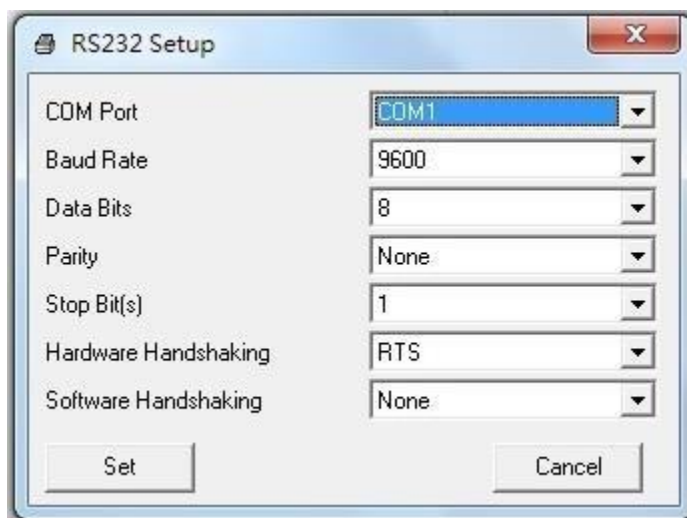
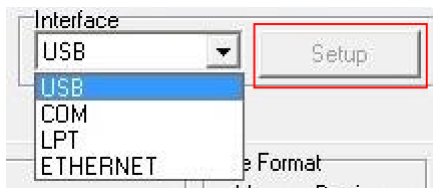


5. Click on the “Ethernet Setup” button from “Printer Function” group in Printer Configuration tab to setup the IP address, subnet mask and gateway for the on board Ethernet.

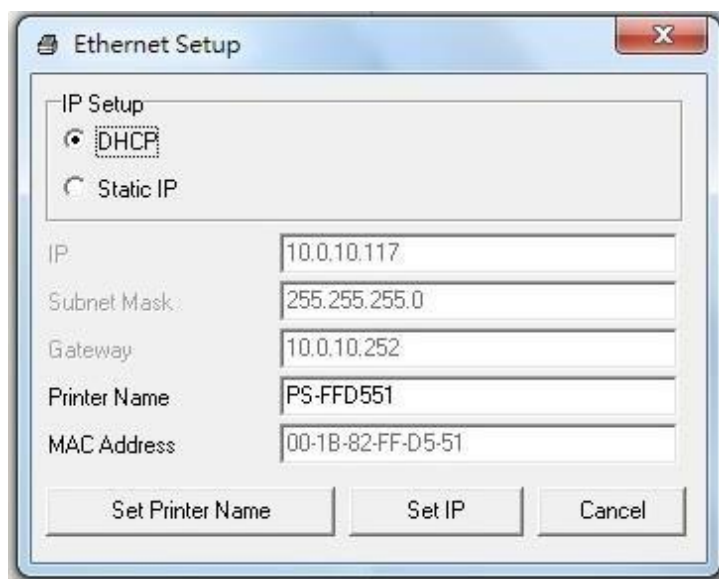


5.3.2 Using RS-232 interface to setup Ethernet interface


1. Connect the computer and the printer with a RS-232 cable.
2. Turn on the printer power.
3. Start the Diagnostic Utility by double clicks on the  **DiagTool.exe** icon.
4. Select “COM” as interface then click on the “Setup” button to setup the serial port baud rate, parity check, data bits, stop bit and flow control parameters.

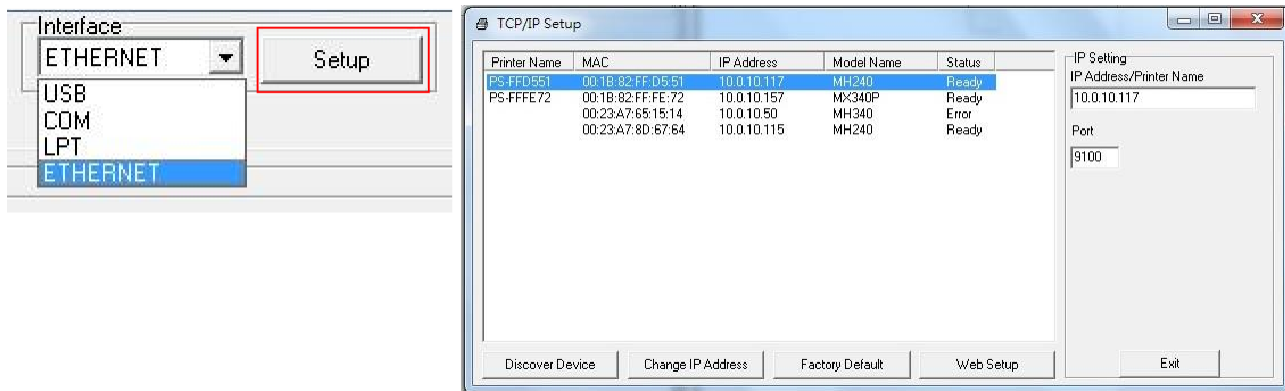


5. Click on the “Ethernet Setup” button from printer function of Printer Configuration tab to setup the IP address, subnet mask and the gateway for the on board Ethernet.

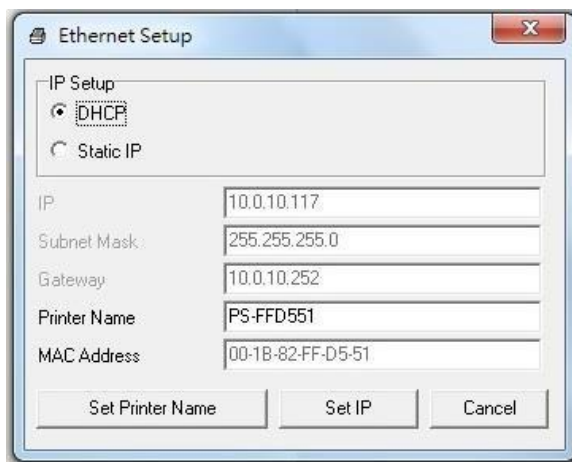


5.3.3 Using Ethernet interface to setup Ethernet interface

1. Connect the computer and the printer to the LAN.
2. Turn on the printer power.
3. Start the Diagnostic Utility by double clicks on the  icon.
4. Select “Ethernet” as the interface then click on the “Setup” button to setup the IP address, subnet mask and gateway for the on board Ethernet.



5. Click the “Discover Device” button to explore the printers that exist on the network.
6. Select the printer in the left side of listed printers, the correspondent IP address will be shown in the right side “IP address/Printer Name” field.
7. Click “Change IP Address” to configure the IP address obtained by DHCP or static.



The default IP address is obtained by DHCP. 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” to take effect the settings.

Users can also change the “Printer Name” by another model name in this field then click “Set Printer Name” to take effect this change.

Note: After clicking the “Set Printer Name” or “Set IP” button, printer will reset to take effect the settings.

8. Click “Exit” button to exit the Ethernet interface setup and go back to Diagnostic Tool main screen.

“Factory Default” button

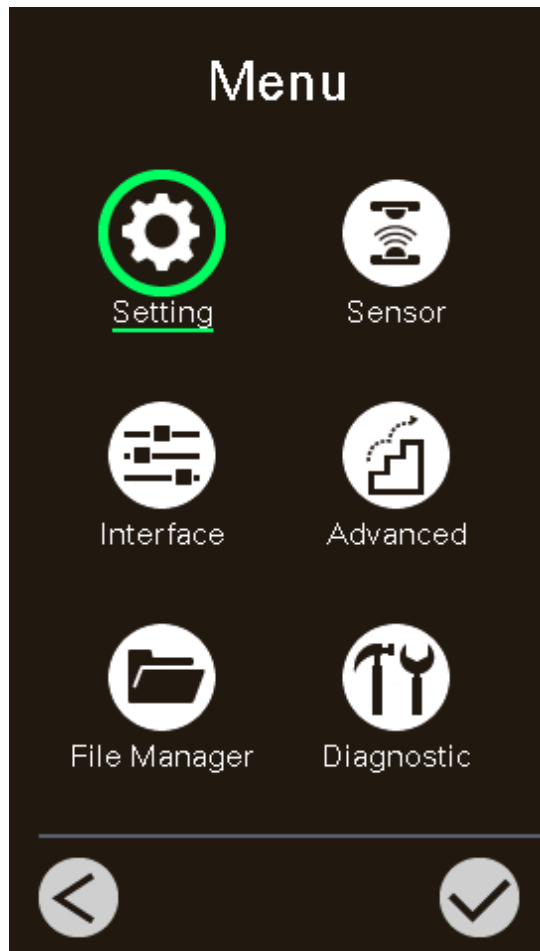
This function will reset the IP, subnet mask, gateway parameters obtained by DHCP and reset the printer name.

“Web setup” button


Except to use the Diagnostic Utility to setup the printer, you can also explore and configure the printer settings and status or update the firmware with the IE or Firefox web browser. This feature provides a user friendly setup interface and the capability to manage the printer remotely over a network.

6. LCD Menu Function

6.1 Enter the Menu




* By touch display:

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

* By Keys:

Use navigational keys to select

the  "Menu" icon (be marked in green) and press the left soft key button (means



) to enter the menu.

6.2 Menu Overview

There are 6 categories for the menu. You can easily set the settings of the printer without connecting the computer. Please refer to following sections for more details.



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



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



This "Interface" option is used to set the printer interface settings.



This "Advanced" option is used to set the printer LCD settings, initialization, cutter type, media low warning setting %...etc.



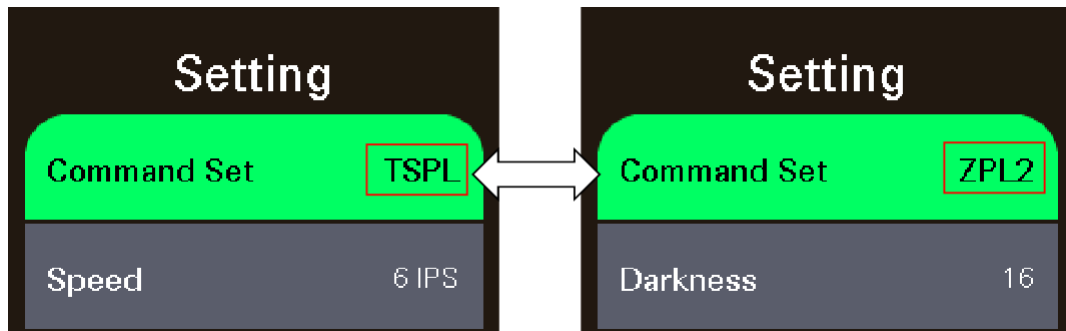
This "File Manager" option is used to check/manager the printer available memory.



This "Diagnostic" option is used to review printer to troubleshoot problems and other issues.

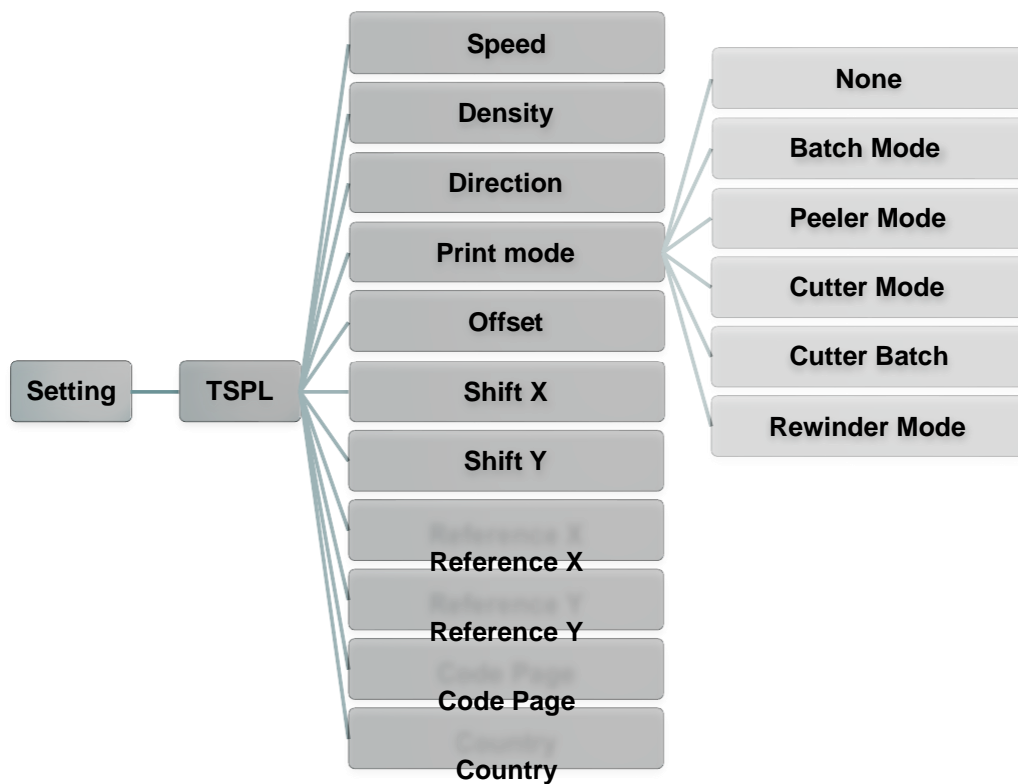
6.3 Setting

Tap the “Command Set” item on LCD to switch the TSPL and ZPL2. Or select the “Command Set” item by navigational key and press right soft key to switch the TSPL and ZPL2.



6.3.1 TSPL

This “TSPL” category can set up the printer settings for TSPL.



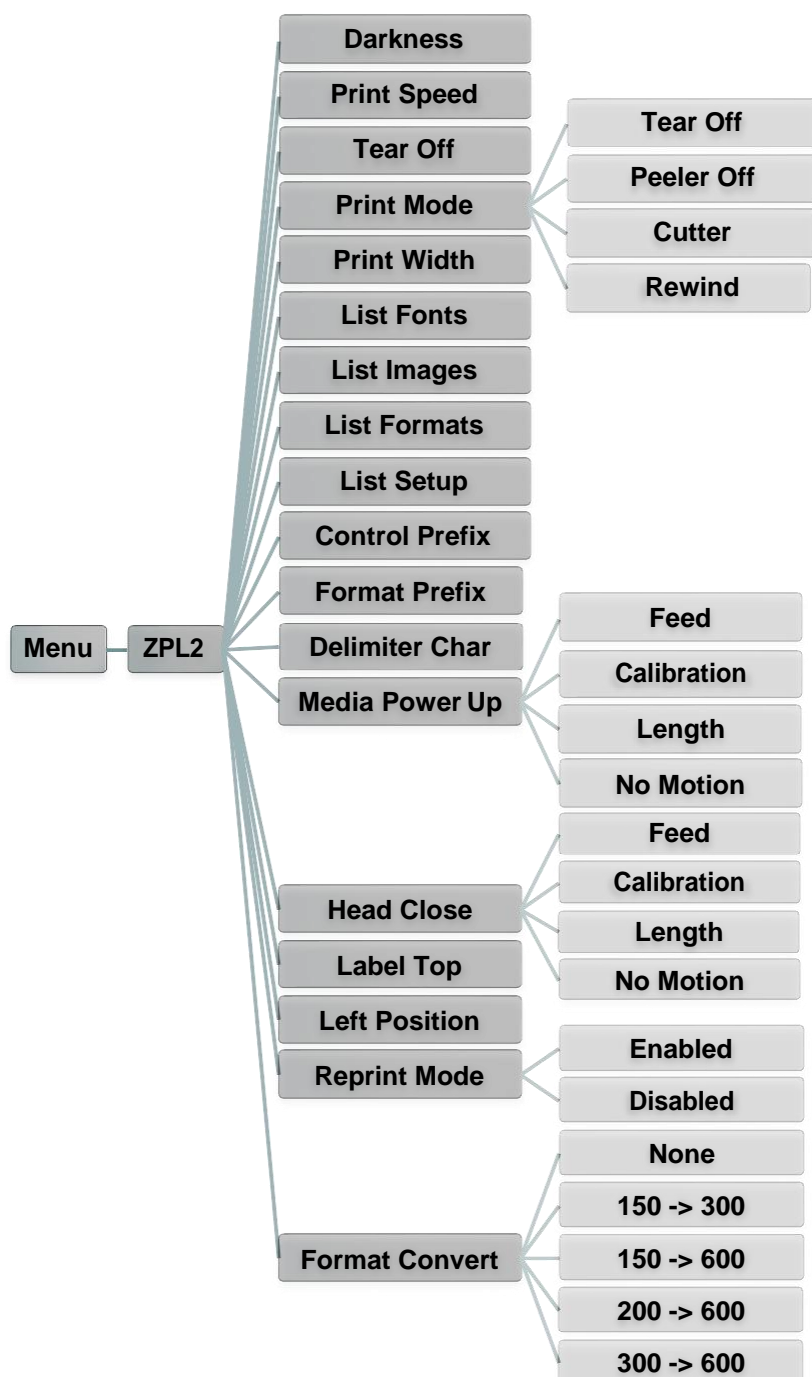
Item	Description	Default
Speed	Use this item to setup print speed. Available setting range is 2~14 for 203dpi, 2~12 for 300dpi and 1~6 for 600dpi.	203 dpi: 6 300 dpi: 4
Density	Use this option to setup printing darkness. The available setting range is from 0 to 15, and the step is 1. You may need to adjust your density based on selected media.	8

Direction	<p>The direction setting value is either 1 or 0. Use this item to setup the printout direction.</p> <table><tr><td>DIRECTION 0</td><td></td><td>DIRECTION 1</td></tr><tr><td><div>Direction</div></td><td><div>FEED</div></td><td><div>Direction</div></td></tr></table>	DIRECTION 0		DIRECTION 1	<div>Direction</div>	<div>FEED</div>	<div>Direction</div>	0								
DIRECTION 0		DIRECTION 1														
<div>Direction</div>	<div>FEED</div>	<div>Direction</div>														
Print mode	<p>This item is used to set the print mode. There are 6 modes as below,</p> <table><tr><td>Printer Mode</td><td>Description</td></tr><tr><td>None</td><td>Next label top of form is aligned to the print head burn line location. (Tear Off Mode)</td></tr><tr><td>Batch Mode</td><td>Once image is printed completely, label gap/black mark will be fed to the tear plate location for tear away.</td></tr><tr><td>Peeler Mode</td><td>Enable the label peel off mode.</td></tr><tr><td>Cutter Mode</td><td>Enable the label cutter mode.</td></tr><tr><td>Cutter Batch</td><td>Cut the label once at the end of the printing job.</td></tr><tr><td>Rewinder Mode</td><td>Enable the label rewinder mode.</td></tr></table>	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.	Peeler Mode	Enable the label peel off mode.	Cutter Mode	Enable the label cutter mode.	Cutter Batch	Cut the label once at the end of the printing job.	Rewinder Mode	Enable the label rewinder mode.	Batch Mode
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.															
Peeler Mode	Enable the label peel off mode.															
Cutter Mode	Enable the label cutter mode.															
Cutter Batch	Cut the label once at the end of the printing job.															
Rewinder Mode	Enable the label rewinder mode.															
Offset	<p>This item is used to fine tune media stop location. Available setting value range is from -999 dots to 999 dots.</p>	0 dot														
Shift X	<p>This item is used to fine tune print position. Available setting value range is from -999 dots to 999 dots.</p>	0 dot														
Shift Y		0 dot														
Reference X	<p>This item is used to set the origin of printer coordinate system horizontally and vertically. Available setting range is from 0 dot to 999 dots.</p>	0 dot														
Reference Y		0 dot														
Code page	<p>Use this item to set the code page of international character set.</p>	850														
Country	<p>Use this option to set the country code. Available setting value range is from 1 to 358.</p>	001														

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


6.3.2 ZPL2

This “ZPL2” category can set up the printer settings for ZPL2.



Item	Description	Default
Density	Use this item to setup printing darkness. The available setting range is from 0 to 30. You may need to adjust your density based on selected media.	16
Print Speed	Use this item to setup print speed. Available setting range is 2~18 for 203dpi, 2~14 for 300dpi and 1.5 ~6 for 600dpi.	203 dpi: 6 300 dpi: 4

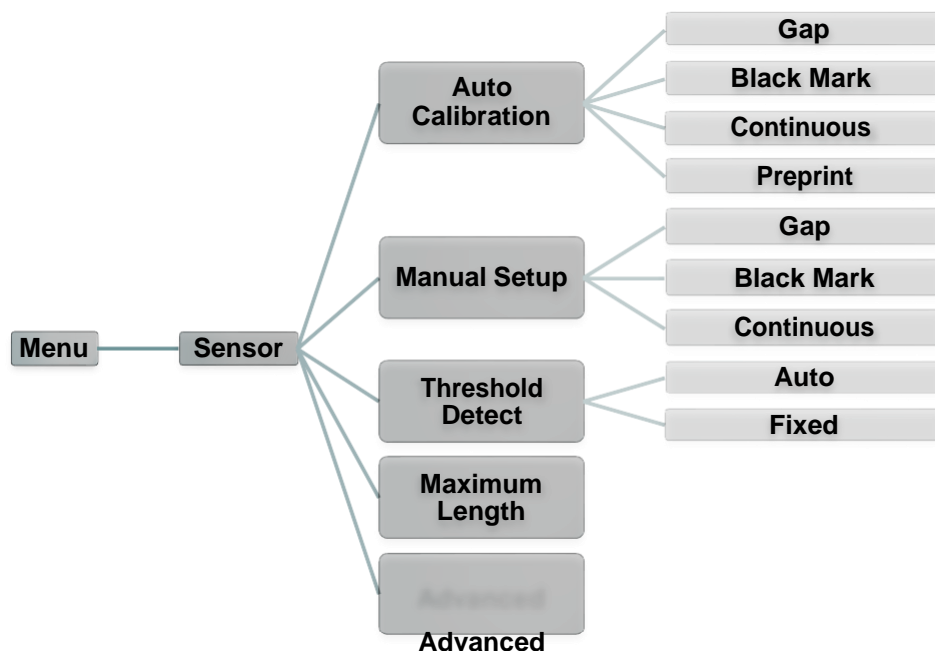
Tear Off	This item is used to fine tune media stop location. Available setting value range is from -120~120 dots.	0 dot										
Print mode	<div>This item is used to set the print mode. There are 3 modes as below,</div> <table><tr><th>Printer Mode</th><th>Description</th></tr><tr><td>Tear Off</td><td>Next label top of form is aligned to the print head burn line location.</td></tr><tr><td>Peeler Off</td><td>Enable the label peel off mode.</td></tr><tr><td>Cutter</td><td>Enable the label cutter mode</td></tr><tr><td>Rewind</td><td>Enable the label rewind mode</td></tr></table>	Printer Mode	Description	Tear Off	Next label top of form is aligned to the print head burn line location.	Peeler Off	Enable the label peel off mode.	Cutter	Enable the label cutter mode	Rewind	Enable the label rewind mode	Tear Off
Printer Mode	Description											
Tear Off	Next label top of form is aligned to the print head burn line location.											
Peeler Off	Enable the label peel off mode.											
Cutter	Enable the label cutter mode											
Rewind	Enable the label rewind mode											
Print Width	This item is used to set print width. The available value range is 2 ~ 999 dots.	812										
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										
Media Power Up	<div>This option is used to set the action of the media when you turn on the printer.</div> <table><tr><th>Selections</th><th>Description</th></tr><tr><td>Feed</td><td>Printer will advance one label</td></tr><tr><td>Calibration</td><td>Printer will calibration the sensor levels, determine length and feed label</td></tr><tr><td>Length</td><td>Printer determine length and feed label</td></tr><tr><td>No Motion</td><td>Printer will not move media</td></tr></table>	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
Selections	Description											
Feed	Printer will advance one label											
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Length	Printer determine length and feed label											
No Motion	Printer will not move media											
Head Close	<div>This option is used to set the action of the media when you close the print head.</div> <table><tr><th>Selections</th><th>Description</th></tr><tr><td>Feed</td><td>Printer will advance one label</td></tr><tr><td>Calibration</td><td>Printer will calibration the sensor levels, determine length and feed label</td></tr><tr><td>Length</td><td>Printer determine length and feed label</td></tr><tr><td>No Motion</td><td>Printer will not move media</td></tr></table>	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
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											
Label Top	This option is used to adjust print position vertically on the label. The range is -120 to +120 dots.	0										
Left Position	This option is used to adjust print position horizontally on the label. The range is -9999 to +9999 dots.	0										

Reprint Mode	When reprint mode is enabled, you can reprint the last label printer by pressing  button on printer's control panel.	Disabled
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.

6.4 Sensor

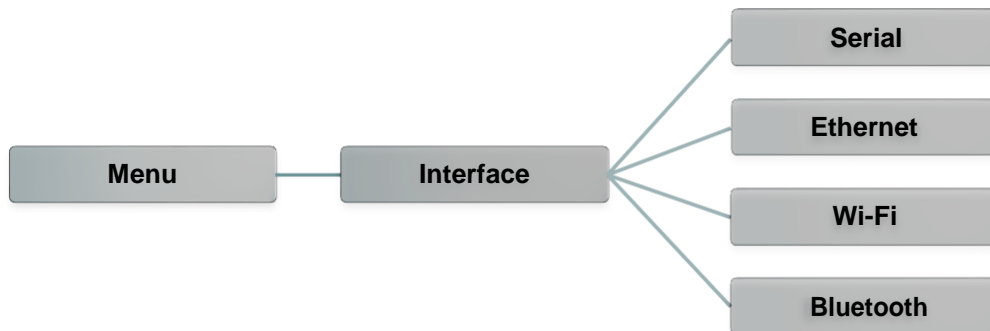
This option is used to calibrate the selected sensor. We recommend calibrate the sensor before printing when changing the media.



Item	Description	Default
Auto Calibration	This option is used to set the media sensor type and calibrate the selected sensor automatically. Printer will feed 2 to 3 gap labels to calibrate the sensor sensitivity automatically.	N/A
Manual setup	In case “Automatic” cannot apply to the media, please use “Manual” function to set the paper length and gap/bline size then scan the backing/mark 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.	254 mm
Advanced	This function can set the minimum paper length and maximum gap/bline length for auto-calibrate the sensor sensitivity.	0 mm

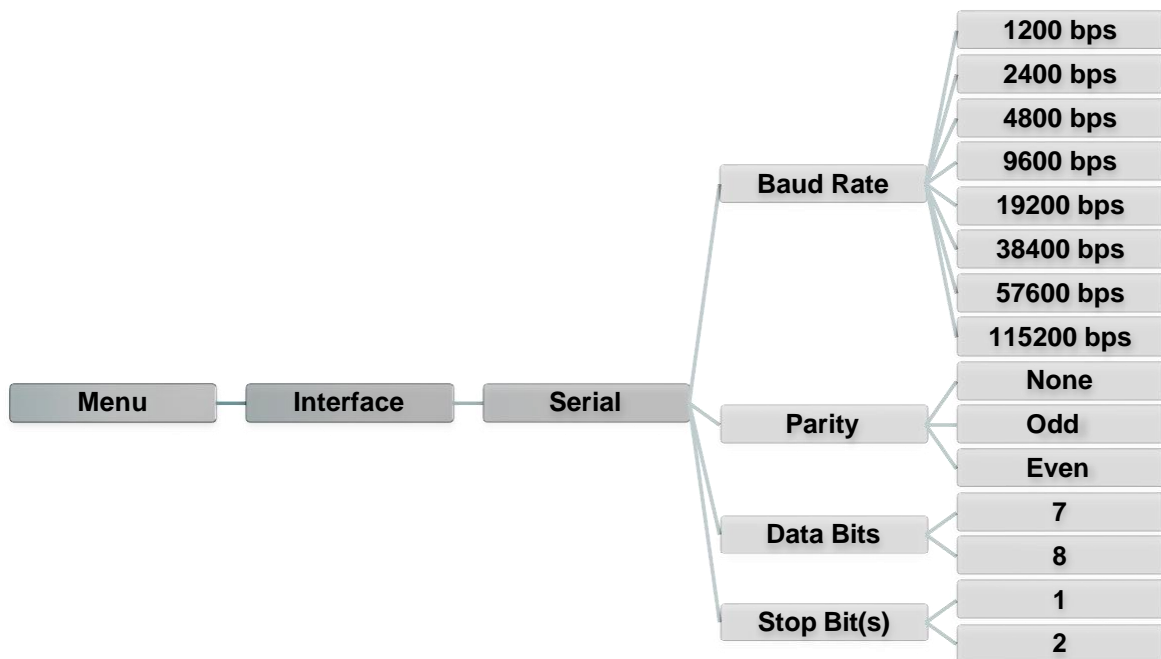
6.5 Interface

This option is used to set the printer interface settings.



6.5.1 Serial Comm.

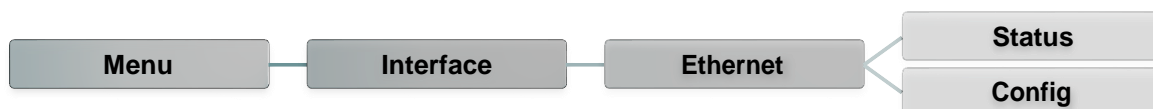
This option is used to set the printer RS-232 settings.



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

6.5.2 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
Config.	DHCP: This item is used to ON or OFF the DHCP (Dynamic Host Configuration Protocol) network protocol. Static IP: Use this menu to set the printer's IP address, subnet mask and gateway.	DHCP

6.5.3 Wi-Fi

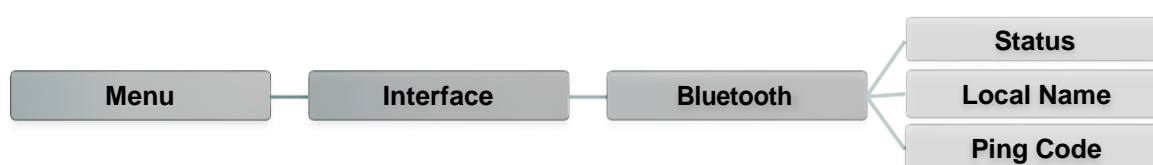
This option is used to set the printer Wi-Fi settings.



Item	Description	Default
Status	Use this menu to check the Wi-Fi IP address, MAC setting status....	N/A
Config.	DHCP: This item is used to ON or OFF the DHCP (Dynamic Host Configuration Protocol) network protocol. Static IP: Use this menu to set the printer's IP address, subnet mask and gateway.	DHCP
SSID	Use this menu to set the Wi-Fi SSID	N/A
Security	Use this menu to set the Wi-Fi security	Open
Password	Use this menu to set the Wi-Fi password	N/A

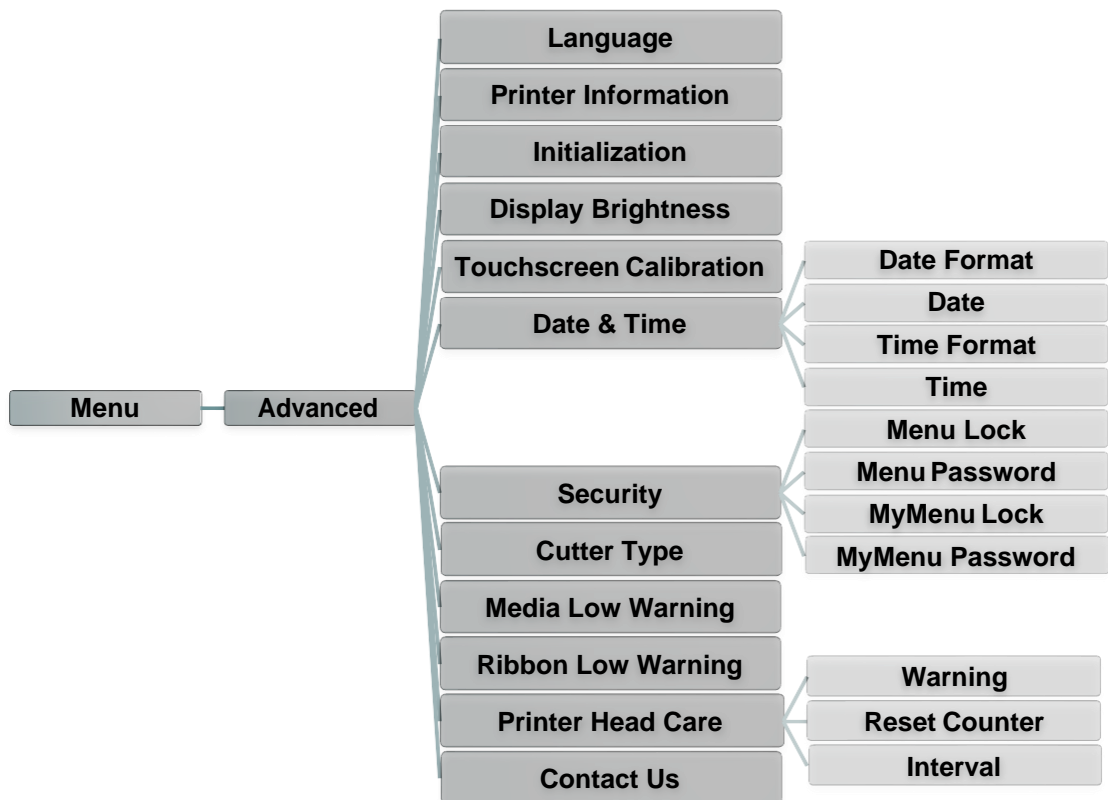
6.5.4 Bluetooth


This option is used to set the printer Bluetooth settings.



Item	Description	Default
Status	Use this menu to check the Bluetooth status.	N/A
Local Name	This item is used to set the local name for Bluetooth.	RF-BHS
Ping Code	This item is used to set the local ping code for Bluetooth.	0000

6.6 Advanced

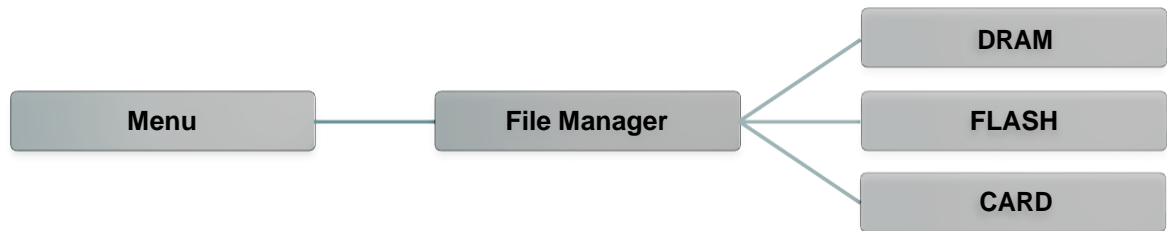


Item	Description	Default
Language	This item is used to setup the language on display.	English
Printer Information	This feature is used to check the printer serial number, printed mileage (m), printed labels (pcs) and cutting counter.	N/A
Initialization	This feature is used to restore printer settings to defaults.	N/A
Display Brightness	This item is used to setup the brightness for display. (Range 0~100)	50
Touchscreen Calibration	This feature is used to calibrate the touchscreen for best result.	N/A
Date & Time	This item is used to setup the date and time on display.	N/A
Security	This feature is used to set the password for locking the menu or favorites. The default password is 8888.	Disable
Cutter Type	This item is used to set the cutter type.	Guillotine
Ribbon Low Warning	This item is used to set the warning for ribbon low %. For example, if setting value is 10%, when ribbon capacity was lower than 10%, the  % will be shown in red.	10%

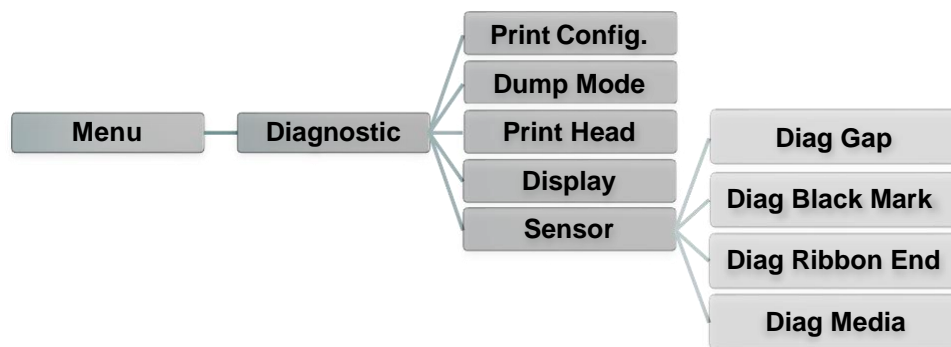
Printer Head Maintn	This item is used to check print head status and to set the settings for print head care.		N/A
	Item	Description	
	Warning	This item is used to enable/disable the print head clean warning. If enable this feature, once print head has been reached the setting mileage then the warning icon will be shown on printer UI for reminding user to clean the print head. The default setting is disable.	
	Reset Counter	This item is used to reset the print head clean warning mileage after cleaned print head.	
	Interval	This item is used to set the expected mileage for reminding user to clean the print head. You have to enable the "TPH warning lock" for use. The default setting is 1 km.	
	Key sound	This item is used to enable/disable the sound of front panel buttons.	
Contact us	This feature is used to check the contact information for tech support service		N/A

6.7 File Manager

This feature is used to check the printer available memory, show the files list, delete the files or run the files that saved in the printer DRAM/Flash/Card memory.




6.8 Diagnostic



Item	Description																																																																		
Print Config.	<p>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.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="text-align: center; background-color: #e0f2f1;">Self-test printout</p> <hr/> <p style="text-align: center;">SYSTEM INFORMATION</p> <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">MODEL: XXXXXX</td> <td style="width: 50%;">Model name</td> </tr> <tr> <td>FIRMWARE: X.XX</td> <td>F/W version</td> </tr> <tr> <td>CHECKSUM: XXXXXXXX</td> <td>Firmware checksum</td> </tr> <tr> <td>S/N: XXXXXXXXXXXX</td> <td>Printer S/N</td> </tr> <tr> <td>TCF: NO</td> <td>AirTrack</td> </tr> <tr> <td>DATE: 1970/01/01</td> <td>configuration file</td> </tr> <tr> <td>TIME: 00:04:18</td> <td>System date</td> </tr> <tr> <td>NON-RESET: 110 m (TPH)</td> <td>System time</td> </tr> <tr> <td>RESET: 110 m (TPH)</td> <td>Printed mileage (meter)</td> </tr> <tr> <td>NON-RESET: 0 (CUT)</td> <td></td> </tr> <tr> <td>RESET: 0 (CUT)</td> <td>Cutting counter</td> </tr> </table> <hr/> <p style="text-align: center;">PRINTING SETTING</p> <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">SPEED: 5 IPS</td> <td style="width: 50%;">Print speed (inch/sec)</td> </tr> <tr> <td>DENSITY: 8.0</td> <td>Print darkness</td> </tr> <tr> <td>WIDTH: 4.00 INCH</td> <td></td> </tr> <tr> <td>HEIGHT: 4.00 INCH</td> <td>Label size (inch)</td> </tr> <tr> <td>GAP: 0.00 INCH</td> <td></td> </tr> <tr> <td>INTENSION: 5</td> <td>Gap distance (inch)</td> </tr> <tr> <td>CODEPAGE: 850</td> <td>Gap/black mark sensor intension</td> </tr> <tr> <td>COUNTRY: 001</td> <td>Code page</td> </tr> <tr> <td></td> <td>Country code</td> </tr> </table> <hr/> <p style="text-align: center;">Z SETTING</p> <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DARKNESS: 16.0</td> <td style="width: 50%;">ZPL setting information</td> </tr> <tr> <td>SPEED: 4 IPS</td> <td>Print darkness</td> </tr> <tr> <td>WIDTH: 4.00 INCH</td> <td>Print speed (inch/sec)</td> </tr> <tr> <td>TILDE: 7EH (~)</td> <td>Label size</td> </tr> <tr> <td>CARET: 5EH (^)</td> <td>Control prefix</td> </tr> <tr> <td>DELIMITER: 2CH (,)</td> <td>Format prefix</td> </tr> <tr> <td>POWER UP: NO MOTION</td> <td>Delimiter prefix</td> </tr> <tr> <td>HEAD CLOSE: NO MOTION</td> <td>Printer power up motion</td> </tr> <tr> <td></td> <td>Printer head close motion</td> </tr> </table> <hr/> <p style="text-align: center;">RS232 SETTING</p> <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">BAUD: 9600</td> <td style="width: 50%;"></td> </tr> <tr> <td>PARITY: NONE</td> <td></td> </tr> <tr> <td>DATA BIT: 8</td> <td></td> </tr> <tr> <td>STOP BIT: 1</td> <td>RS232 serial port configuration</td> </tr> </table> <hr/> <p>Note: ZPL is emulating for Zebra® language.</p> </div>	MODEL: XXXXXX	Model name	FIRMWARE: X.XX	F/W version	CHECKSUM: XXXXXXXX	Firmware checksum	S/N: XXXXXXXXXXXX	Printer S/N	TCF: NO	AirTrack	DATE: 1970/01/01	configuration file	TIME: 00:04:18	System date	NON-RESET: 110 m (TPH)	System time	RESET: 110 m (TPH)	Printed mileage (meter)	NON-RESET: 0 (CUT)		RESET: 0 (CUT)	Cutting counter	SPEED: 5 IPS	Print speed (inch/sec)	DENSITY: 8.0	Print darkness	WIDTH: 4.00 INCH		HEIGHT: 4.00 INCH	Label size (inch)	GAP: 0.00 INCH		INTENSION: 5	Gap distance (inch)	CODEPAGE: 850	Gap/black mark sensor intension	COUNTRY: 001	Code page		Country code	DARKNESS: 16.0	ZPL setting information	SPEED: 4 IPS	Print darkness	WIDTH: 4.00 INCH	Print speed (inch/sec)	TILDE: 7EH (~)	Label size	CARET: 5EH (^)	Control prefix	DELIMITER: 2CH (,)	Format prefix	POWER UP: NO MOTION	Delimiter prefix	HEAD CLOSE: NO MOTION	Printer power up motion		Printer head close motion	BAUD: 9600		PARITY: NONE		DATA BIT: 8		STOP BIT: 1	RS232 serial port configuration
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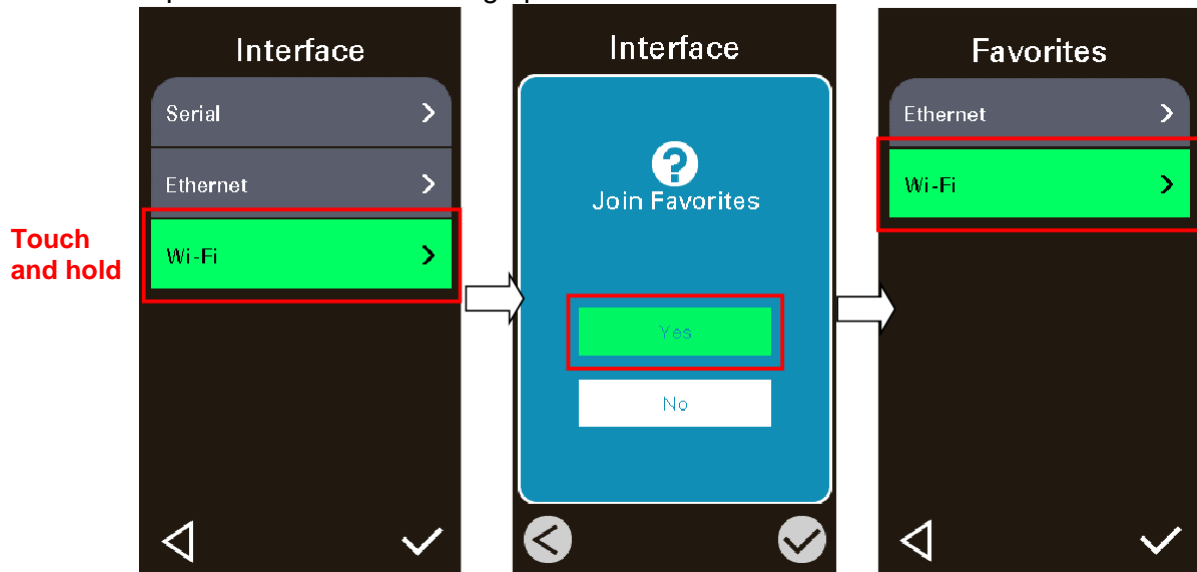
	<div data-bbox="491 197 1310 667" data-label="Diagram"> <p>Numbers of download files Total & available memory space</p> <p>Print head check pattern</p> <p>Note: Checking dot damage requires 4" wide paper width.</p> </div>																																								
Dump Mode	<p>Captures the data from the 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.</p> <div data-bbox="539 1211 683 1245" data-label="Text"> <p>ASCII Data</p> </div> <div data-bbox="764 929 1342 1534" data-label="Table"> <table> <tr><td>DOWNLOA</td><td>0D 0A 44 4F 57 4E 4C 4F 4I</td></tr> <tr><td>D „TEST2.</td><td>44 20 22 54 45 53 54 32 2E</td></tr> <tr><td>DAT“, 5, CL</td><td>44 41 54 22 2C 35 2C 43 4C</td></tr> <tr><td>S DOWNLO</td><td>53 0D 0A 44 4F 57 4E 4C 4F</td></tr> <tr><td>AD F, „TES</td><td>41 44 20 46 2C 22 54 45 53</td></tr> <tr><td>T4.DAT“, 5</td><td>54 34 2E 44 41 54 22 2C 35</td></tr> <tr><td>,CLS DOW</td><td>2C 43 4C 53 0D 0A 44 4F 57</td></tr> <tr><td>NLOAD „TE</td><td>4E 4C 4F 41 44 20 22 54 45</td></tr> <tr><td>ST2.DAT“,</td><td>53 54 32 2E 44 41 54 22 2C</td></tr> <tr><td>5,CLS DO</td><td>35 2C 43 4C 53 0D 0A 44 4F</td></tr> <tr><td>WNLOAD F,</td><td>57 4E 4C 4F 41 44 20 46 2C</td></tr> <tr><td>„TEST4.DA</td><td>22 54 45 53 54 34 2E 44 41</td></tr> <tr><td>T“, 5,CLS</td><td>54 22 2C 35 2C 43 4C 53 0D</td></tr> <tr><td>DOWNLOAD</td><td>0A 44 4F 57 4E 4C 4F 41 44</td></tr> <tr><td>„TEST2.D</td><td>20 22 54 45 53 54 32 2E 44</td></tr> <tr><td>AT“, 5,CLS</td><td>41 54 22 2C 35 2C 43 4C 53</td></tr> <tr><td>DOWNLOAD</td><td>0D 0A 44 4F 57 4E 4C 4F 4I</td></tr> <tr><td>D F, „TEST</td><td>44 20 46 2C 22 54 45 53 54</td></tr> <tr><td>4.DAT“, 5,</td><td>34 2E 44 41 54 22 2C 35 2C</td></tr> <tr><td>CLS</td><td>43 4C 53 0D 0A</td></tr> </table> </div> <div data-bbox="963 1570 1353 1630" data-label="Text"> <p>Hexadecimal data related to left column of ASCII data</p> </div> <p>Note: Dump mode requires 4" wide paper width.</p>	DOWNLOA	0D 0A 44 4F 57 4E 4C 4F 4I	D „TEST2.	44 20 22 54 45 53 54 32 2E	DAT“, 5, CL	44 41 54 22 2C 35 2C 43 4C	S DOWNLO	53 0D 0A 44 4F 57 4E 4C 4F	AD F, „TES	41 44 20 46 2C 22 54 45 53	T4.DAT“, 5	54 34 2E 44 41 54 22 2C 35	,CLS DOW	2C 43 4C 53 0D 0A 44 4F 57	NLOAD „TE	4E 4C 4F 41 44 20 22 54 45	ST2.DAT“,	53 54 32 2E 44 41 54 22 2C	5,CLS DO	35 2C 43 4C 53 0D 0A 44 4F	WNLOAD F,	57 4E 4C 4F 41 44 20 46 2C	„TEST4.DA	22 54 45 53 54 34 2E 44 41	T“, 5,CLS	54 22 2C 35 2C 43 4C 53 0D	DOWNLOAD	0A 44 4F 57 4E 4C 4F 41 44	„TEST2.D	20 22 54 45 53 54 32 2E 44	AT“, 5,CLS	41 54 22 2C 35 2C 43 4C 53	DOWNLOAD	0D 0A 44 4F 57 4E 4C 4F 4I	D F, „TEST	44 20 46 2C 22 54 45 53 54	4.DAT“, 5,	34 2E 44 41 54 22 2C 35 2C	CLS	43 4C 53 0D 0A
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Print Head	This feature is used to check print head's temperature and bad dots.																																								
Display	This feature is used to check LCD's color state.																																								
Sensor	This feature is used to check sensors intensity and reading state.																																								

6.9 Favorites

This feature is used to create your own favorites list. You can organize the commonly used setting options in “Favorites” .

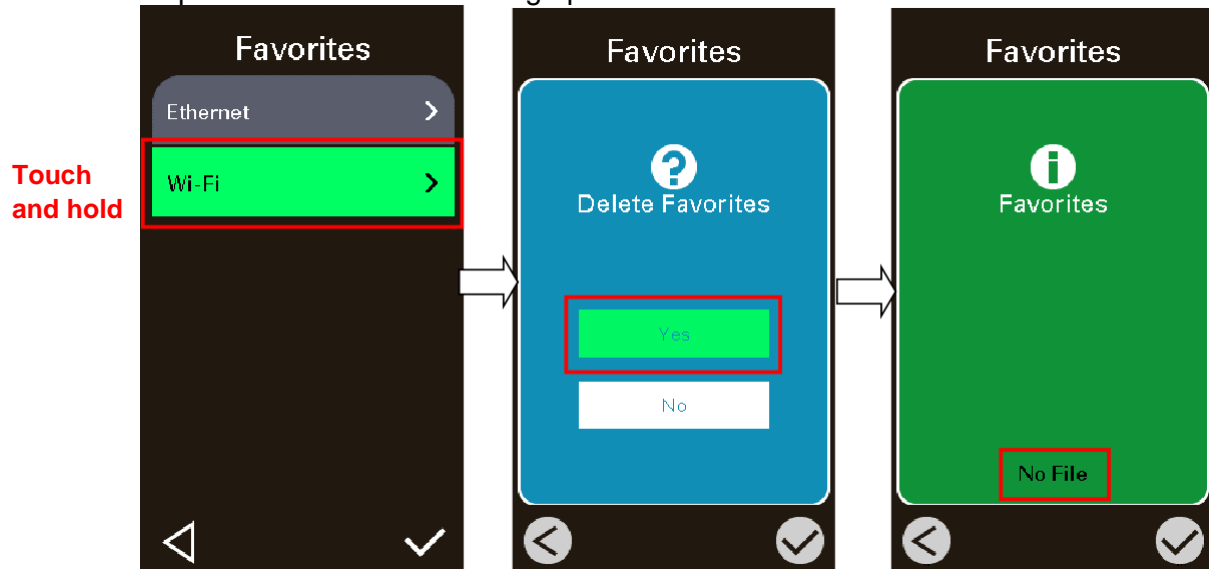
- **Get organized “Favorites” list**

Touch and hold a favorite option item, until “Join Favorites” setting screen pops up. Tap “Yes” to add this setting option item to “Favorites”.



- **Delete “Favorites” item**

Touch and hold the option item, until “Delete Favorites” setting screen pops up. Tap “Yes” to delete this setting option item on “Favorites”.

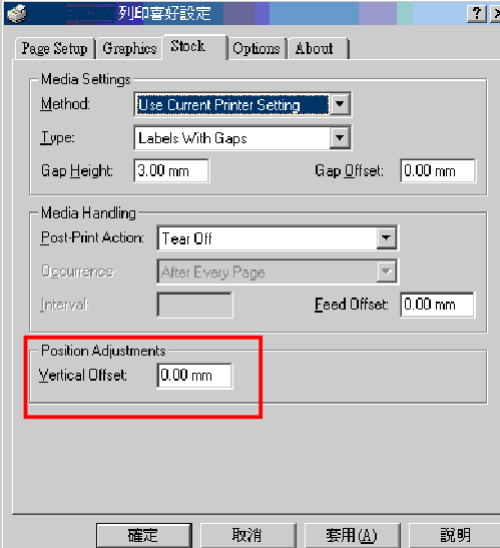


7. Troubleshooting

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 Customer Service Department of your purchased reseller or distributor for assistance.

Problem	Possible Cause	Recovery Procedure
Power indicator does not illuminate	<ul style="list-style-type: none"> * The power cord is not properly connected. * The power switch is closed. 	<ul style="list-style-type: none"> * Plug the power cord in printer and outlet. * Switch the printer on.
Carriage Open	<ul style="list-style-type: none"> * The printer carriage is open. 	<ul style="list-style-type: none"> * Please close the print carriage.
Not Printing	<ul style="list-style-type: none"> * Check if interface cable is well connected to the interface connector. * Check if wireless or Bluetooth device is well connected between host and printer. * The port specified in the Windows driver is not correct. 	<ul style="list-style-type: none"> * Re-connect cable to interface or change a new cable. * Please reset the wireless device setting. * Select the correct printer port in the driver. * Clean the printhead. * Printhead's harness connector is not well connected with printhead. Turn off the printer and plug the connector again. * Check your program if there is a command PRINT at the end of the file and there must have CRLF at the end of each command line.
No print on the label	<ul style="list-style-type: none"> * Label or ribbon is loaded not correctly. * Use wrong type paper or ribbon 	<ul style="list-style-type: none"> * 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.
No Ribbon	<ul style="list-style-type: none"> * Running out of ribbon. * The ribbon is installed incorrectly. 	<ul style="list-style-type: none"> * Supply a new ribbon roll. * Please refer to the steps in user's manual to reinstall the ribbon.
No Paper	<ul style="list-style-type: none"> * Running out of label. * The label is installed incorrectly. * Gap/black mark sensor is not calibrated. 	<ul style="list-style-type: none"> * Supply a new label roll. * Please refer to the steps in user's manual to reinstall the label roll. * Calibrate the gap/black mark sensor.
Paper Jam	<ul style="list-style-type: none"> * Gap/black mark sensor is not set properly. * Make sure label size is set properly. * Labels may be stuck inside the printer mechanism. 	<ul style="list-style-type: none"> * Calibrate the media sensor. * Set media size correctly. * Remove the stuck label inside the printer mechanism.
Take Label	<ul style="list-style-type: none"> * Peel function is enabled. 	<ul style="list-style-type: none"> * If the peeler module is installed, please remove the label. * If there is no peeler module in front of the printer, please switch off the printer and install it. * Check if the connector is plugging correctly.
Can't downloading the file to memory (FLASH / DRAM/CARD)	<ul style="list-style-type: none"> * The space of memory is full. 	<ul style="list-style-type: none"> * Delete unused files in the memory.

Poor Print Quality	<ul style="list-style-type: none"> * Ribbon and media is loaded incorrectly * Dust or adhesive accumulation on the print head. * Print density is not set properly. * Printhead element is damaged. * Ribbon and media are incompatible. * The printhead pressure is not set properly. 	<ul style="list-style-type: none"> * 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. * Adjust the printhead pressure adjustment knob. * The release lever does not latch the printhead properly.
Missing printing on the left or right side of label	<ul style="list-style-type: none"> * Wrong label size setup. 	<ul style="list-style-type: none"> * Set the correct label size.
Gray line on the blank label	<ul style="list-style-type: none"> * The print head is dirty. * The platen roller is dirty. 	<ul style="list-style-type: none"> * Clean the print head. * Clean the platen roller. <p>(Please refer to chapter 8)</p>
Irregular printing	<ul style="list-style-type: none"> * The printer is in Hex Dump mode. * The RS-232 setting is incorrect. 	<ul style="list-style-type: none"> * 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	<ul style="list-style-type: none"> * The media guide does not touch the edge of the media. 	<ul style="list-style-type: none"> * If the label is moving to the right side, please move the label guide to left. * If the label is moving to the left side, please move the label guide to right.
Skip labels when printing	<ul style="list-style-type: none"> * Label size is not specified properly. * Sensor sensitivity is not set properly. * The media sensor is covered with dust. 	<ul style="list-style-type: none"> * 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.
Wrinkle Problem	<ul style="list-style-type: none"> * Printhead pressure is incorrect. * Ribbon installation is incorrect. * Media installation is incorrect. * Print density is incorrect. * Media feeding is incorrect. 	<ul style="list-style-type: none"> * Please refer to the chapter 4. * Please set the suitable density to have good print quality. * Make sure the label guide touch the edge of the media guide.
RTC time is incorrect when reboot the printer	<ul style="list-style-type: none"> * The battery has run down. 	<ul style="list-style-type: none"> * Check if there is a battery on the main board.
The left side printout position is incorrect	<ul style="list-style-type: none"> * Wrong label size setup. * The parameter Shift X in LCD menu is incorrect. 	<ul style="list-style-type: none"> * Set the correct label size. * Press [Menu] → [Setting] → [Shift X] to fine tune the parameter of Shift X.

<p>The printing position of small label is incorrect</p>	<ul style="list-style-type: none"> * Media sensor sensitivity is not set properly. * Label size is incorrect. * The parameter Shift Y in the LCD menu is incorrect. * The vertical offset setting in the driver is incorrect. 	<ul style="list-style-type: none"> * Calibrate the sensor sensitivity again. * Set the correct label size and gap size. * Press [Menu] → [Setting] → [Shift Y] → to fine tune the parameter of Shift Y. * If using the software BarTender, please set the vertical offset in the driver.  <p>The screenshot shows the 'Printer Properties' dialog box with the 'Media Settings' tab selected. The 'Media Settings' section includes a 'Method' dropdown set to 'Use Current Printer Setting', a 'Type' dropdown set to 'Labels With Gaps', and input fields for 'Gap Height' (3.00 mm) and 'Gap Offset' (0.00 mm). The 'Media Handling' section includes a 'Post-Print Action' dropdown set to 'Tear Off', a 'Frequency' dropdown set to 'After Every Page', and input fields for 'Interval' and 'Feed Offset' (0.00 mm). The 'Position Adjustments' section at the bottom has a 'Vertical Offset' input field set to 0.00 mm, which is highlighted with a red rectangular box.</p>
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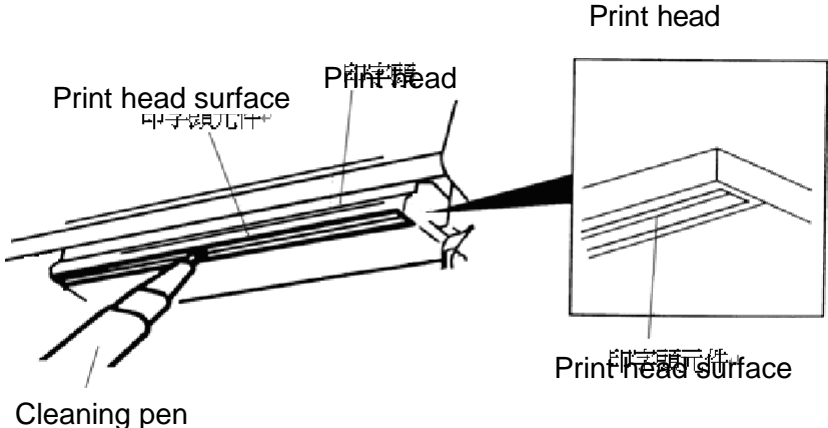
8. Maintenance

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
Print Head	1. Always turn off the printer before cleaning the print head. 2. Allow the print head to cool for a minimum of one minute. 3. Use a cotton swab and 100% Ethanol or Isopropyl Alcohol to clean the print head surface.	Clean the print head when changing a new label roll.
	 <p>The diagram illustrates the cleaning of the print head. It shows a side view of the print head assembly with labels for 'Print head surface', 'Print head', and 'Cleaning pen'. An inset box provides a magnified view of the 'Print head surface' (印字頭元件), showing the individual nozzles.</p>	
Platen Roller	1. Turn the power off. 2. Rotate the platen roller and wipe it thoroughly with water.	Clean the platen roller when changing a new label roll
Peel Bar	Use the lint-free cloth with 100% ethanol to wipe it.	As needed
Sensor	Compressed air or vacuum	Monthly
Exterior	Wipe it with water-dampened cloth	As needed
Interior	Brush or vacuum	As needed

Note:

- Do not touch printer head by hand. If you touch it careless, please use ethanol to clean it.
- Please use 100% Ethenol 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.

Revise History

Date	Content	Editor
2018/8/13	Modify Ch.1.2.1 Printer Standard Features	Kate
2018/12/14	Modify Ch. 7 Troubleshooting	Kate
2019/2/18	Modify Ch.2.2.3 Rear View	Kate
2019/3/28	Modify Ch.1.2.1 interface from Internal Ethernet to Internal Ethernet print server (10/100 Mbps)	Kate
2019/4/18	Modify Ch.1.2.2 Regular cutter (Guillotine cutter, max: 4 ips) Paper thickness to Media thickness Add Ch.1.2.2 Regular cutter (Guillotine cutter, max: 4 ips) Media type	Kate
2019/5/9	Modify Ch.1.2.2 Regular cutter (Guillotine cutter, max: 4 ips) spec	Kate
2019/6/13	Modify Ch.1.2.1 DRAM from 64MB to 128MB Modify Ch.1.4 Print speed (inches per second) of 203 dpi series from 2,3,...8 ips/ Up to 8 ips to 2,3,...10 ips/ Up to 10 ips Modify Ch.1.4 Print speed (inches per second) of 300 dpi series from 2,3,...6 ips/ Up to 6 ips to 2,3,...7 ips/ Up to 7 ips Add Ch.1.2.2 dealer option for 5" O.D Full Internal Rewinding module	Kate
2019/10/16	Modify Ch.1.3 Printer Specifications operation temperature from 5 ~ 40°C to 0 ~ 40°C	Kate
2019/10/18	Modify Ch.1.2.2 Printer Optional Features from Internal Bluetooth module in front panel to Internal Bluetooth 4.2 MFi module in front panel	Kate
2019/10/21	*Add Agency Compliance and Approvals (MFi for Bluetooth)	Kate



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