### **WPL614**

# THERMAL TRANSFER / DIRECT THERMAL BAR CODE PRINTER

## USER'S MANUAL



#### **Copyright Information**

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#### **Agency Compliance and Approvals**

EN 55032, Class A

EN 55024



EN 60950-1

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

FCC part 15B, Class A

ICES-003, Class A

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



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

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

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

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



AS/NZS CISPR 22, Class A



UL 60950-1 (2nd Edition) CSA C22.2 No. 60950-1-07 (2nd Edition)



EN 60950-1



KN 32

**KN 35** 

GB 4943.1

GB 9254, Class A



GB 17625.1



Energy Star for Imaging Equipment Version 2.0



IS 13252(Part 1)/

IEC 60950-1

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

#### **CAUTION:**

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

#### **CE Statement:**

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

All operational modes:

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

5GHz: 802.11a,

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

2400 MHz - 2483.5 MHz: 19.88 dBm (EIRP)

5150 MHz - 5250 MHz: 17.51 dBm (EIRP)

5150-5350MHz for Only indoor use

5470-5725MHz for indoor/outdoor use

#### **Restrictions In AZE**

#### National restrictions information is provided below

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

Hereby, Wasp Barcode Technologies declares that the radio equipment type [Wi-Fi] IEEE 802.11 a/b/g/n is in compliance with Directive 2014/53/EU

The full text of the EU declaration of conformity is available at the following internet address: http://www.waspbarcode.com

#### RF exposure warning (Wi-Fi)

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

SAR Value: 0.736 W/kg

#### RF exposure warning (For Bluetooth)

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment.

The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

#### Canada, Industry Canada (IC) Notices

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

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

#### Radio Frequency (RF) Exposure Information

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

This device has been evaluated for and shown compliant with the IC Specific Absorption Rate ("SAR") limits when installed in specific host products operated in portable exposure conditions. **(For Wi-Fi)** 

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

#### Canada, avis de l'Industry Canada (IC)

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

#### Informations concernant l'exposition aux fréquences radio (RF)

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

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

Ce périphérique a également été évalué et démontré conforme aux limites d'exposition radiofréquence 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)** 

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#### 1. Introduction

#### 1.1 Product Introduction

Thank you very much for purchasing Wasp barcode printer.

The new high-performance WPL614 Series was designed to deliver the cleanest and high quality barcodes. It features a die-cast print mechanism housed in a very strong yet lightweight cabinet. This new design results in a more durable printer that is suited for your most heavy-duty demand cycles.

The WPL614 Series have nine models available. The WPL614 Series prints at 203 dpi series are at speeds up to an amazing 14 inches per second, WPL614-300 Series offers higher 300 dpi resolution at speeds up to 12 inches per second, and the WPL614-600 Series features 600 dpi high resolution which makes it ideal for printing very small 2D barcodes, graphics, fine print and other ultra-high-resolution images.

The WPL614 Series printers are loaded with standard features including a color touch display with brand-new GUI design and six menu buttons to provide a great user experience, support for 600 meter long ribbons, 8" OD media rolls, built-in Ethernet, RS-232 interface, two USB hosts for keyboard and scanner connections, USB 2.0 and serial interfaces. Parallel, GPIO ports, and internal Bluetooth module are available as an option.

This document provides an easy reference for operating the WPL614 series. To print label formats, please refer to the instructions provided with your labeling software; if you need to write the custom programs, please refer to the WPL/WPL2 programming manual that can be found on Wasp Barcode Technologies website at <a href="http://www.waspbarcode.com">http://www.waspbarcode.com</a>.

#### - Applications

- Industrial-duty Printing
- Work in process
- Compliance labeling
- Order Fulfillment

- Distribution
- Shipping/Receiving
- Healthcare Labeling and Patient Safety
- Electronics & Jewelry labeling

### 1.2 Product Features

#### 1.2.1 Printer Standard Features

The printer offers the following standard features.

Product standard feature				
Advanced				
Model	WPL614	WPL614-300	WPL614-600	
Resolution	203 dots/inch (8 dots/mm)	300 dots/inch (12 dots/mm)	600 dots/inch (24 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> <li>Multi-language selectable         <ul> <li>3.5" color TFT display, 320</li> <li>x 240 pixel</li> <li>6 operation buttons (menu, feed/pause, up, down, left, right)</li> <li>1 LED (with 2 LEDs / Green &amp; Red)</li> </ul> </li> <li>Multi-language selectable         <ul> <li>Large Backlit LCD display (16 bits Color, Resolution 480 x</li> <li>272; Resistive Touch Screen)</li> <li>6 operation buttons (menu, select, up, down, left/pause, right/feed)</li> <li>1 LED (with 2 LEDs / Green &amp; Red)</li> </ul> </li> </ul>			
Processor	32-bit RISC high performance processor			
Memory	<ul> <li>128MB Flash memory</li> <li>128MB SDRAM</li> <li>USB device memory</li> <li>(FAT32)</li> <li>microSD card, up to 32 GB</li> <li>512MB Flash memory</li> <li>256MB SDRAM</li> <li>USB device memory (FAT32)</li> <li>microSD card, up to 32 GB</li> </ul>			
Interface	<ul> <li>RS-232 (Max. 115,200 bps)</li> <li>USB 2.0 (High speed mode)</li> <li>Internal Ethernet</li> <li>USB host *2 (Front side), connecting USB storage device</li> </ul>			
Sensors	<ul> <li>Gap transmissive sensor (Position adjustable, 15mm → 98mm)</li> <li>Black mark reflective sensor (Position adjustable, 15mm → 92mm)</li> <li>Ribbon end sensor (transmissive)</li> <li>Ribbon encoder sensor</li> <li>Ribbon encoder sensor</li> <li>Ribbon encoder sensor</li> <li>Ribbon encoder sensor</li> <li>Head open sensor</li> </ul>			
Internal font	<ul> <li>8 alpha-numeric bitmap fonts</li> <li>One Monotype Imaging® CG Triumvirate Bold Condensed scalable font</li> <li>Built-in Monotype True Type Font engine</li> </ul>			

Supported code page	<ul> <li>Codepage 437 (English - US)</li> <li>Codepage 737 (Greek) -</li> <li>Codepage 850 (Latin-1)</li> <li>Codepage 852 (Latin-2)</li> <li>Codepage 855 (Cyrillic) -</li> <li>Codepage 857 (Turkish)</li> <li>Codepage 860 (Portuguese)</li> <li>Codepage 861 (Icelandic) -</li> <li>Codepage 862 (Hebrew) -</li> <li>Codepage 863 (French Canadian)</li> <li>Codepage 864 (Arabic) -</li> <li>Codepage 865 (Nordic)</li> <li>Codepage 866 (Russian) -</li> <li>Codepage 869 (Greek 2) -</li> <li>Codepage 950 (Traditional Chinese)</li> <li>Codepage 932 (Japanese)</li> <li>Codepage 932 (Japanese)</li> <li>Codepage 949 (Korean)</li> <li>Codepage 1250 (Latin-2)</li> <li>Codepage 1251 (Cyrillic)</li> <li>Codepage 1253 (Greek)</li> <li>Codepage 1254 (Turkish)</li> <li>Codepage 1256 (Arabic)</li> <li>Codepage 1257 (Baltic)</li> <li>Codepage 1258 (Vietnam)</li> <li>ISO-8859-1: Latin-1 (Western European ISO-8859-2: Latin-2 (Central European ISO-8859-3: Latin-3 (South European ISO-8859-4: Latin-4 (North European ISO-8859-5: Cyrillic</li> <li>ISO-8859-6: Arabic</li> <li>ISO-8859-7: Greek</li> <li>ISO-8859-9: Turkish</li> <li>ISO-8859-10: Nordic</li> <li>ISO-8859-10: Nordic</li> <li>ISO-8859-15: Latin-9</li> <li>UTF-8</li> </ul>	n)
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	WPL-EZ™	
Font & bar code rotation	0, 90, 180, 270 degree	

- Standard for real time clock
- Standard for buzzer

#### Others

- Standard industry emulations right out of the box including Eltron® and Zebra® language support
   Built-in Monotype True Type Font engine
   Downloadable fonts from PC to printer memory

- Print head pressure force & pressure location adjustable

#### 1.2.2 Printer Optional Features

The printer offers the following optional features.

Product option feature	User option	Dealer option	Factory option
Option Card (GPIO + Parallel)		0	
Internal Bluetooth module in front panel			0
Wi-Fi module (Slot-in)		0	
Peel-off module assembly (WPL614/WPL614T Series only) Minimum label peeling height: 0.5"	0		
Regular cutter (Guillotine cutter) Paper thickness: 0.06 ~ 0.15 mm	0		
KP-200 Plus keyboard display unit	0	· · · · · · · · · · · · · · · · · · ·	
KU-007 Plus programmable smart keyboard	0		

#### 1.3 Printer Specifications

Printer Specifications			
Advanced			
Model	Wpl614	WPL614-300	WPL614-600
Physical dimensions	276 mm (W) x 502 mm (D)x 326 mm (H)		
Weight	15.43 kg (34.02 lbs)		
Power	Internal switching power supply ■Input: AC 100-240V, 4-2A, 50-60Hz ■Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W Note:		
The max. full web black bar is limited to 5 mm only, otherwise printer may st printing to protect power supply.			otherwise printer may stop
Environmental condition	Operation: 5 ~ 40°C (41 ~ 10 140°F), 10~90% non-conden		sing Storage: -40 $\sim$ 60 $^{\circ}$ C (-40 $\sim$

### 1.4 Print Specifications

<b>Print Specifications</b>	203 dpi models 300 dpi models 600 dpi m		600 dpi models
Print head resolution (dots per inch/mm)	203 dots/inch (8 dots/mm)	300 dots/inch (12 dots/mm)	600 dots/inch (24 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)	0.042 x 0.042 mm (1 mm = 24 dots)
Print speed (inches per second)			1.5,2,36 ips Up to 6 IPS
Max. print width	104 mm (4.09")		
Max. print length	1000" (25,400 mm)	450" (11,430 mm)	100" (2,540 mm)
Printout bias	Vertical: 0.7 ~ 1mm.		

### 1.5 Ribbon Specifications

Ribbon Specifications		
Ribbon outside diameter	Max. 90 mm OD	
Ribbon length	600 m	
Ribbon core inside diameter	1" (25.4 mm)	
Ribbon width	25.4 mm ~ 114.3 mm (1"~4.5")	
Ribbon wound type	Ink coated outside wound, ink coated inside wound	
Ribbon end type	Transparency	

### 1.6 Media Specifications

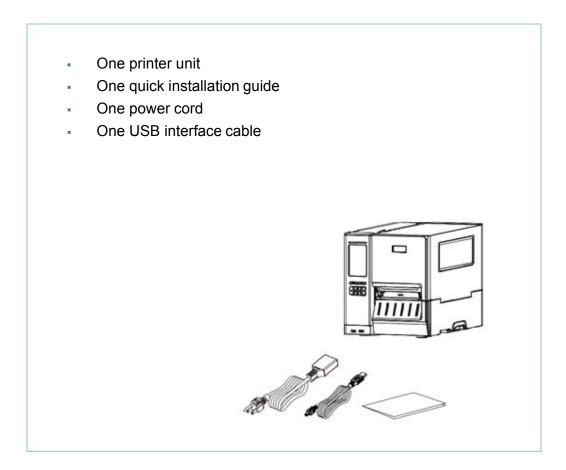
Media Specifications			
Media roll capacity	Max. 8" (203.2 mm) OD; 1.5" or 3" ID core, Rewind 3" only		
Media core diameter	3" (76.2 mm) or 1.5" (38.1 mm) ID core		
Media type	Continuous, die-cut, black mark, fan-fold, notch		
Media wound type	Outside wound		
Media width	20 mm ~ 114 mm (0.78" ~ 4.49")		
Media thickness	0.06 mm ~ 0.28 mm		
Label length	5 mm ~ 25,400 mm (0.20"		
Black mark	Min. 8 mm (W) x Min. 2 mm (H)		
Gap height	Min. 2 mm		

### 2. Operations Overview

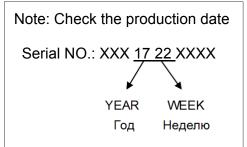
#### 2.1 Unpacking and Inspection

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.



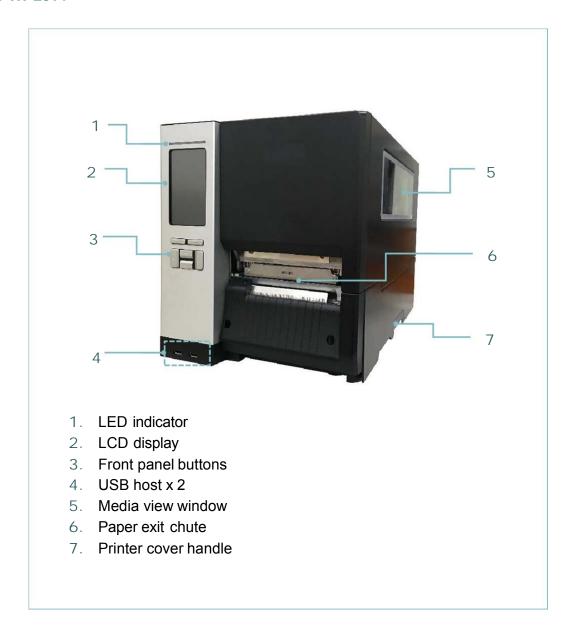
If any parts are missing, please contact the Customer Service Department of your purchased reseller or distributor.



#### 2.2 Printer Overview

#### 2.2.1 Front View

#### For WPL614



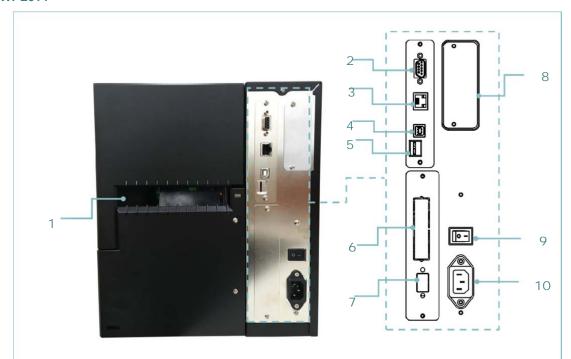
#### 2.2.2 Interior view

#### For WPL614



#### 2.2.3 Rear View

#### For WPL614

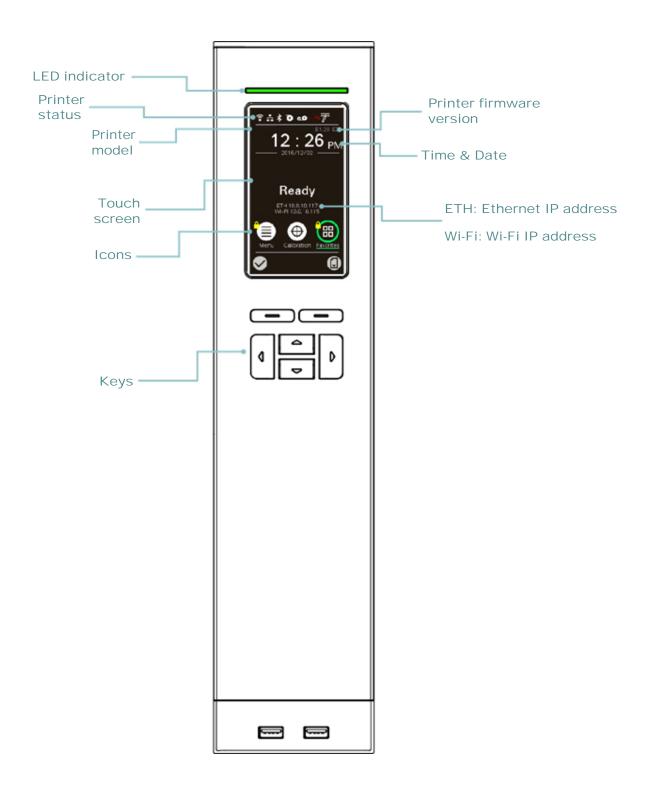


- 1. External label entrance chute
- 2. RS-232C interface
- 3. Ethernet interface
- 4. USB interface
- 5. microSD card slot
- 6. Centronics interface (Option)
- 7. GPIO interface (Option)
- 8. Slot-in Wi-Fi interface (Option)
- 9. Power switch
- 10. Power cord socket

#### 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	Statu	us Indication		
<b>()</b> POWER	Off		Printer power off	
On		Ì	Printer power on	
	On		Printer is ready	
ON-LINE	Dlinki		Printer is paused	
	Blinki	ing	Printer is downloading data	
	Off	f	Printer is ready	
On Blinking			Carriage open or cutter error	
		ing	No paper, paper jam or no ribbon	
Keys			Function	
		abels on the footer of the UI will explain the function for left and soft key. Check the labels on the footer of the UI screen. The ning of the select keys will vary.		
Navigational keys  Used to select icons, menu selection, and navigation in the U		d to select icons, menu selection, and navigation in the UI.		

#### 2.3.2 Main page Icons

Indicated icon	Indication
<b>?</b>	Wi-Fi device is ready (option)
	Ethernet is connected
*	Bluetooth device is ready (option)
•	Media capacity %
00	Ribbon capacity %
	Security lock
Icon button	Function
	Enter the menu
<b>(</b>	Calibrate the media sensor

	Enter the "My Menu" option (please refer to section 0)
<b>✓</b>	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

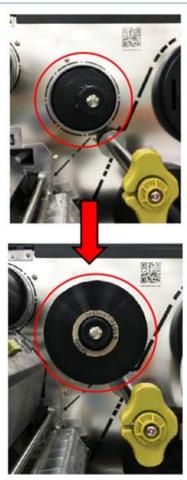
- 1. Place the printer on a flat, secure surface.
- 2. Make sure the power switch is off.
- 3. Connect the printer to the computer with the provided USB cable.
- 4. Plug the power cord into the AC power cord socket at the rear of the printer, and then plug the power cord into a properly grounded power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

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

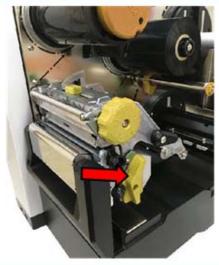
### 3.2 Loading the Ribbon



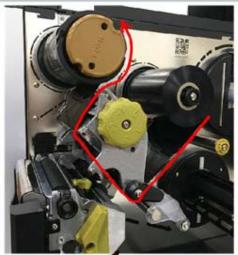
1. Open the printer right side cover.



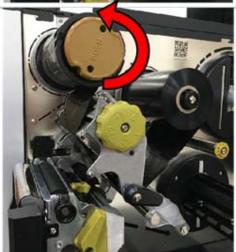
2. Install the ribbon onto ribbon supply spindle.



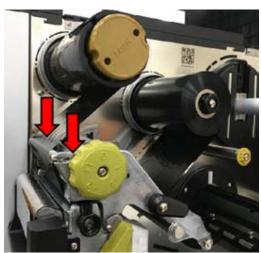
3. Push the Print head release lever to open print head mechanism.



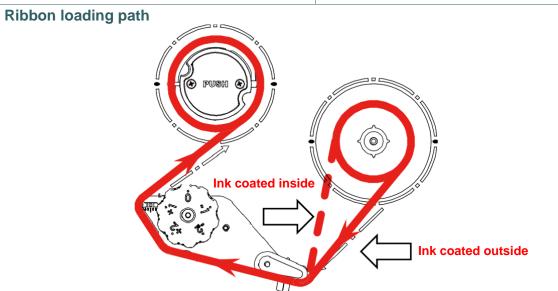
4. Thread ribbon below the ribbon guide bar through ribbon sensor slot and as the loading path printed on the printer.



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



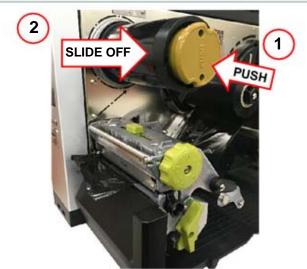
6. Close the print head mechanism by pushing down the both sides of the print head release lever.



#### 3.3 Remove Used Ribbon



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



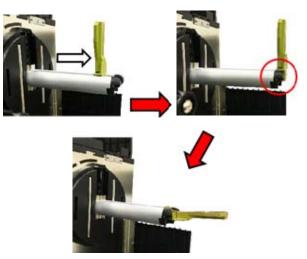
2. Push the ribbon release button and slide the ribbon off to release the ribbon on the ribbon rewind spindle at the same time.

#### 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.

#### Note:

The media end sensor is movable, which can detect the capacity of media and remind users to change the media roll.





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

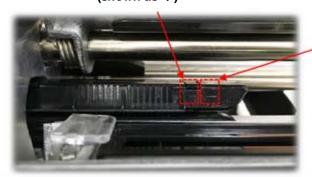
Note: WPL614 Series doesn't attach the media guide bar.



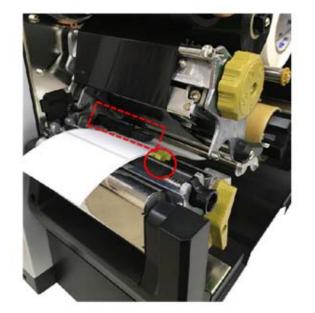
Interior view of WPL614 Series

 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 throughfor sensing.
 Black mark sensor

(shown as ↓)



Gap sensor (shown as▽)

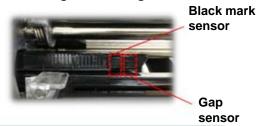


**6.** Adjust the label guide to fix the media position.

#### 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.





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

#### Note:

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

#### 8.1.1 Loading the Fanfold/External Media

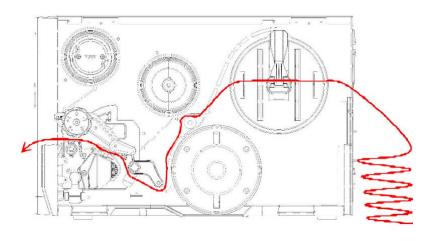


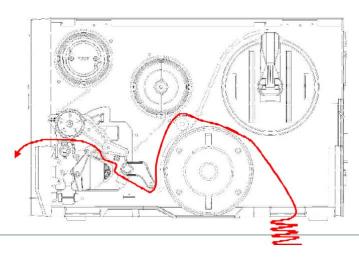
- Open the printer right side cover.
   Insert the fanfold media through the bottom or rear external label entrance
- 3. Please refer to section 3.4.1 step 4~8 for loading media.

#### Note:

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

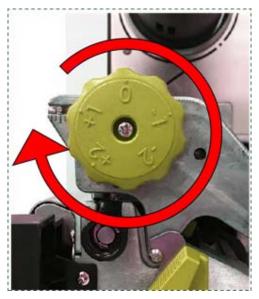
#### Loading path for fan-fold labels



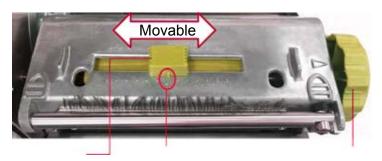


### 4. Adjustment Knob

# 4.1 Print Head Pressure Adjustment Knob & Print Head Pressure Position Adjustment Knob



The print head pressure adjustment knob has 5 levels of adjustment. 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 to adjust the print head pressure adjustment knob and get the best print quality.



Print head pressure position adjustment knob

**Default setting** 

Print head pressure adjustment knob

#### Note:

For the label width less than 2 inches, please fix the **Print head pressure adjustment knob** inside the edge of the label as possible (prevent the unnecessary friction between the print head and platen roller).

#### 4.2 Ribbon Tension Adjustment Knob Module

The ribbon tension adjustment knob has 5 positions for adjustment. Because the printer's ribbon alignment is to the left side of mechanism, different ribbon or media widths require different tension to print correctly. Therefore, it may require to adjust the ribbon tension adjustment knob to get your 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.

Ribbon Tension Adjustment Knob has 5 positions for adjustment. Use flat blade driver to change the ribbon tension position.



Ribbon Tension Adjustment Knob

The Print Head Pressure Adjustment Knob has 5 levels of settings. Switch the Print head Pressure Adjustment Knob and cooperate with the Print Head Pressure Position Adjustment Knob to adjust the pressure and position on print head.

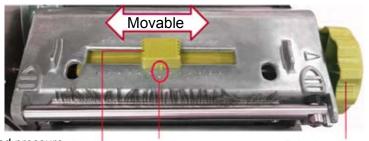
**Adjustable** 

**Printer** 

**Parts** 



Print Head Pressure Adjustment Knob



Print head pressure position adjustment knob

**Default setting** 

Print head pressure adjustment knob

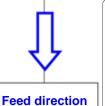
#### **Symptom**

Wrinkle Example

1. Wrinkle happens from label lower left to upper right direction (""")

2. Wrinkle happens from label lower right to upper left direction (""")





SERIAL NO.: INTUITION

INDIES 1. 7230V - 5/3A,5060Hz

INDIES 1. 7230V - 5/3A,5060Hz

This device complies with . Part 15 of the FCC Rules.
Operation is subject to the 1. wing two conditions.
(1)This device must accept any in . ference received, including interference that may caus. "desired operation."

COMPLIES WITH CANADA I. "03 CLASS A

COMPLIES WITH CANADA II. "04 CLASS A

COMPLIES WITH CANADA III. "04

MADE IN

If the wrinkle on the label starts from the lower left side to upper right side, please do following adjustment.

 Switch the ribbon tension adjustment knob clockwise per 1 level and print the label again to check if the wrinkle is gone.

If the wrinkle on the label starts from the lower right side to upper left side, please do following adjustment.



- 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 position adjustment knob per 1 level and print the label again to check if the wrinkle is gone.
- If the ribbon wrinkle still can't improve after switch the print head pressure position adjustment knob, please adjust the print head pressure adjustment knob per 1 level again to check if the wrinkle is gone.

 Switch the ribbon tension adjustment knob counterclockwise per 1 level and print the label again to check if the wrinkle is gone.



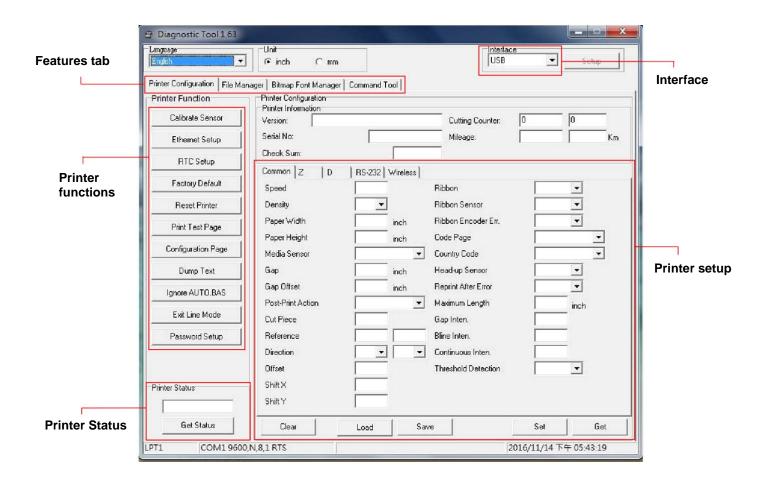
- If the ribbon tension adjustment knob has positioned on the level of outermost side but didn't improve the ribbon wrinkle, please switch the print head pressure position adjustment knob per 1 level and print the label again to check if the wrinkle is gone.
- If the ribbon wrinkle still can't improve after switch the print head pressure position adjustment knob, please adjust the print head pressure adjustment knob per 1 level again to check if the wrinkle is gone.

### 5. Diagnostic Tool

Wasp Barcode'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.

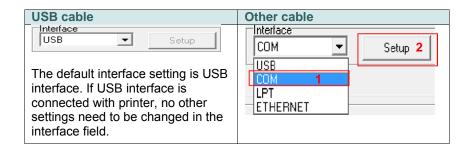
#### 5.1 Start the Diagnostic Tool

- 1. Double click on the Diagnostic tool icon 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.



- 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

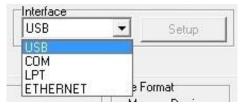
For more information about Diagnostic Tool, please refer to the diagnostic utility quick start guide in Wasp Barcode's official website Downloads \ Manuals \ Utilities \ Diagnostic utility quick start guide.

# 5.3 Setting Ethernet by Diagnostic Tool

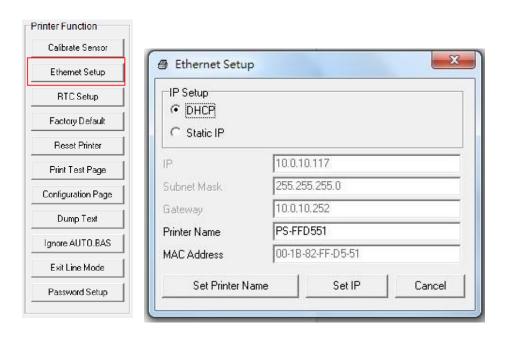
The Diagnostic Utility is enclosed in the CD disk \ Utilities directory. Users can use Diagnostic Tool to setup the Ethernet by RS-232, USB and Ethernet interfaces. The following contents will instruct users how to configure the Ethernet by these three interfaces.

#### 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  $extcolor{black}{ extcolor{black}{ extcolor{blac$
- 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.

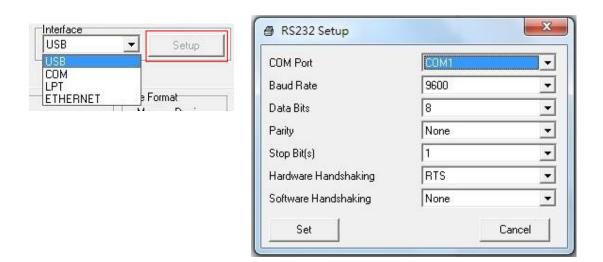


5. Click on the "Ethernet Setup" button from "Printer Function" group in Printer Configuration tab to setup the IP address, subnet mask and gateway for the on board Ethernet.

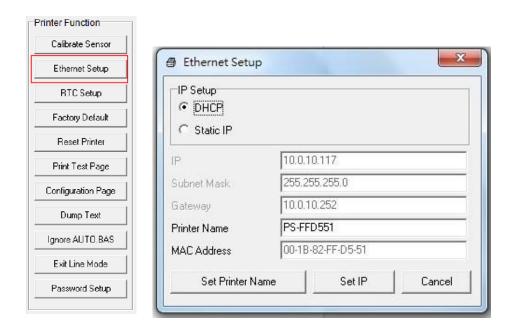


#### 5.3.2 Using RS-232 interface to setup Ethernet interface

- 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 DiagToolexe 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.

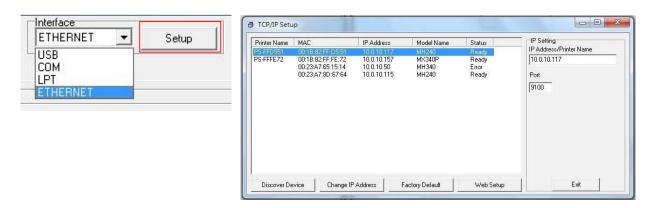


5. Click on the "Ethernet Setup" button from printer function of Printer Configuration tab to setup the IP address, subnet mask and the gateway for the on board Ethernet.

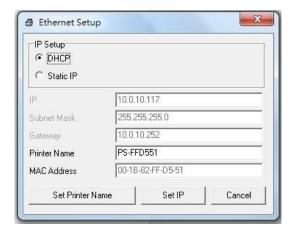


#### 5.3.3 Using Ethernet interface to setup Ethernet interface

- 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 
  DiagToolexe 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

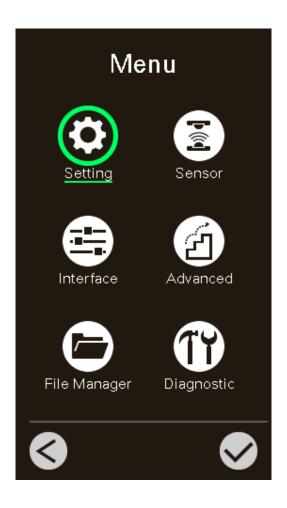
This function will reset the IP, subnet mask, gateway parameters obtained by DHCP and reset the printer name.

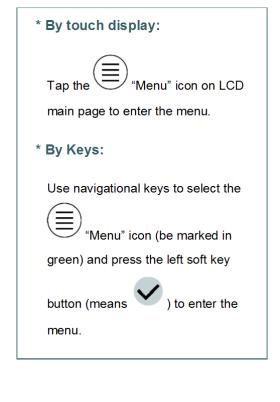
"Web setup" button

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





#### 6.2 Menu Overview

There are 6 categories for the menu. You can easy to 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 WPL & 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.



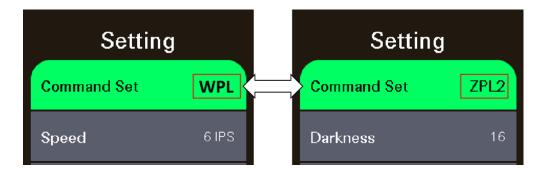
This "File Manager" option is used to check/manager the printer available memory.



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

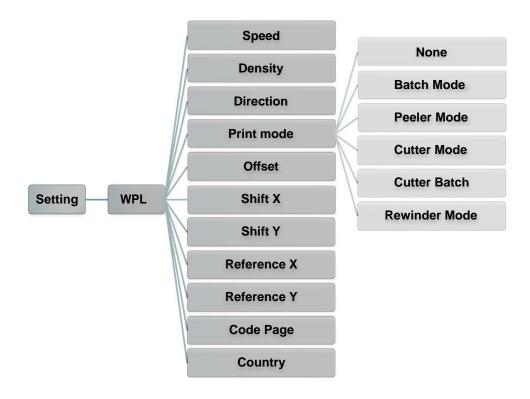
# 6.3 Setting

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



#### 6.3.1 WPL

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



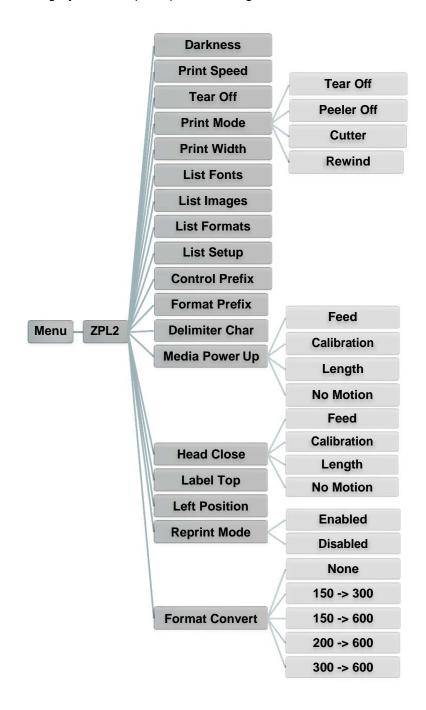
Item	Description	Default
Speed	Use this item to setup print speed. Available setting range is 2~14 for 203dpi, 2~12 for 300dpi and 1~6 for 600dpi.	203 dpi: 6 300 dpi: 4 600 dpi: 3
Density	Use this option to setup printing darkness. The available setting range is from 0 to 15, and the step is 1. You may need to adjust your density based on selected media.	8

Direction	the printout dir	ction DIRECTION 1  Ction DIRECTION 1	0
Print mode	This item is us below,  Printer Mode None  Batch Mode  Peeler Mode Cutter Mode Cutter Batch Rewinder Mode	Description  Next label top of form is aligned to the print head burn line location. (Tear Off Mode)  Once image is printed completely, label gap/black mark will be fed to the tear plate location for tear away.  Enable the label peel off mode.  Enable the label cutter mode.  Cut the label once at the end of the printing job.  Enable the label rewinder mode.	Batch Mode
Offset		ed to fine tune media stop location. Available ange is from -999 dots to 999 dots.	0 dot
Shift X	This item is use	d to fine tune print position. Available setting value	0 dot
Shift Y	range is from -	999 dots to 999 dots.	0 dot
Reference X	This item is used to set the origin of printer coordinate system		0 dot
Reference Y		vertically. Available setting range is from 0 dot to	0 dot
Code page	Use this item to set the code page of international character set.		850
Country	Use this option to range is from 1	o set the country code. Available setting value to 358.	001

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

#### 6.3.2 ZPL2

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: 4 600 dpi: 3

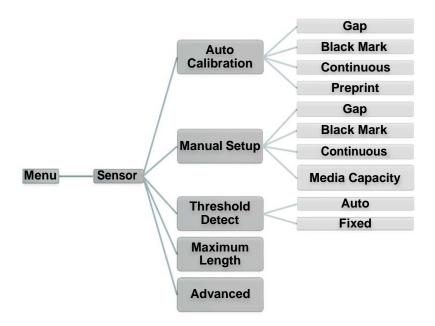
Tear Off	This item is used to fine tune media stop location. Available setting value range is from -120~120 dots.	0 dot
Print mode	This item is used to set the print mode. There are 3 modes as below,  Printer Mode Description  Tear Off Next label top of form is aligned to the print head burn line location.  Peeler Off Enable the label peel off mode.  Cutter Enable the label cutter mode  Rewind Enable the label rewind mode	Tear Off
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
<b>Delimiter Char</b>	This feature is used to set delimiter character.	N/A
Media Power Up	This option is used to set the action of the media when you turn on the printer.  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
Head Close	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 determine length and feed label No Motion Printer will not move media	No Motion
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
Ĺ	_ po. by processing bacters on printer a control parton	1

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
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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

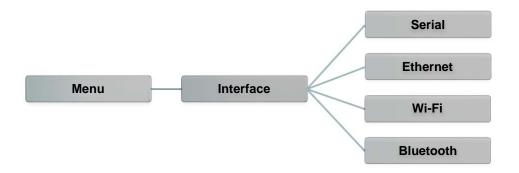
This option is used to calibrate the selected sensor. We recommend calibrate the sensor before printing when changing the media.



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.  Note: The "Media Capacity" item is used to calibrate the media capacity sensor %.	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

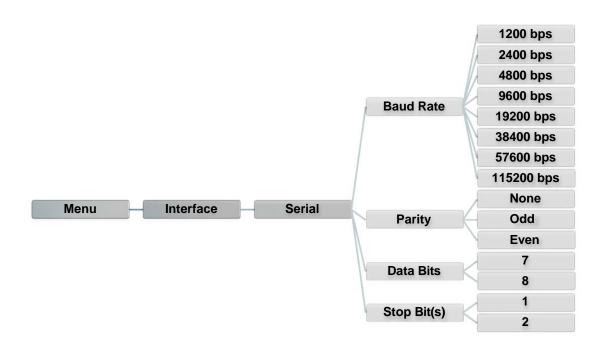
# 6.5 Interface

This option is used to set the printer interface settings.



#### 6.5.1 Serial Comm.

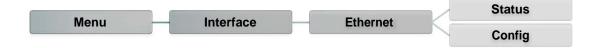
This option is used to set the printer RS-232 settings.



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.	DHCP
, and the second	Static IP: Use this menu to set the printer's IP address, subnet mask and gateway.	

#### 6.5.3 Wi-Fi

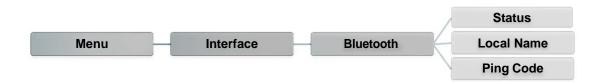
This option is used to set the printer Wi-Fi settings.



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

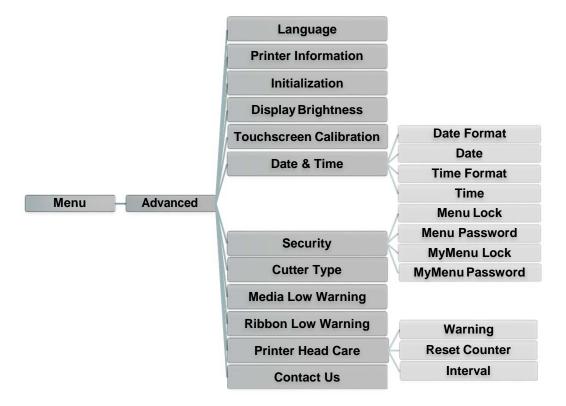
#### 6.5.4 Bluetooth

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
Media Low Warning	This item is used to set the warning for media low %. For example, if setting value is 10%, when media capacity was lower than 10%, the % will be shown in red.	10%
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 3 % will be shown in red.	10%

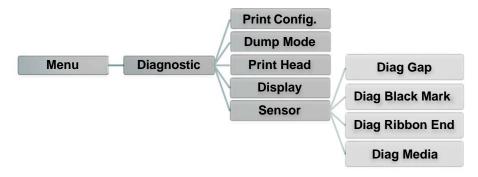
	This item is used to check print head status and to set the settings for print head care.		
Printer Head Maintn	Item	Description	N/A
	Warning	This item is used to enable/disable the print head clean warning. If enable this feature, once print head has been reached the setting mileage then the warning 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

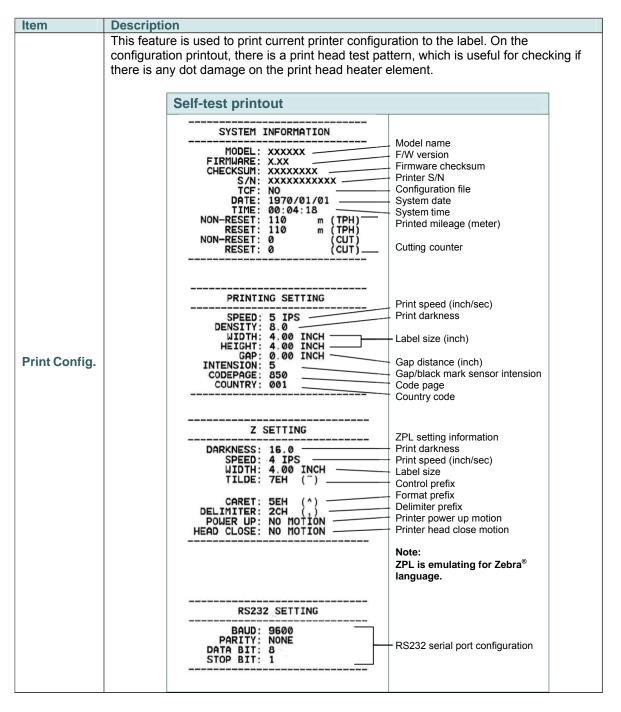
# 6.7 File Manager

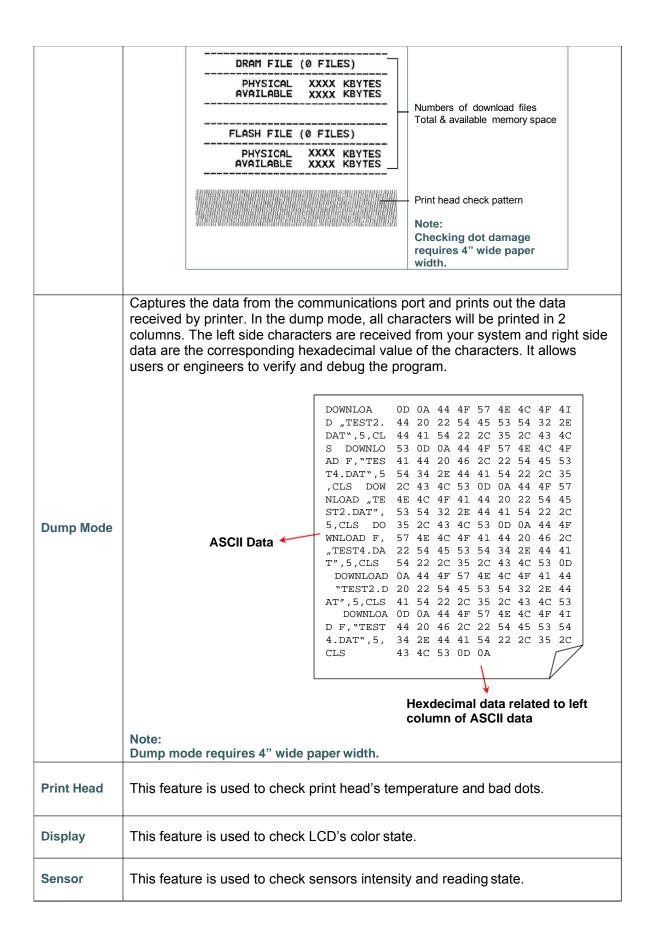
This feature is used to check the printer available memory, show the files list, delete the files or run the files that saved in the printer DRAM/Flash/Card memory.



#### 6.8 Diagnostic





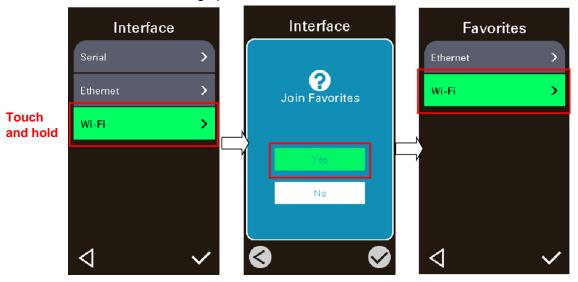


#### 6.9 Favorites

This feature is used to create your own favorites list. You can organize the commonly used setting options in "Favorites" \(\begin{align\*} \begin{align\*} \b

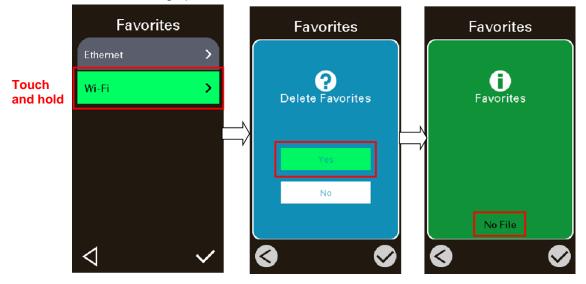
# Get organized "Favorites" list

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	* The power cord is not properly connected. * The power switch is closed.	* Plug the power cord in printer and outle * Switch the printer on.	
Carriage Open	* The printer carriage is open.	* Please close the print carriage.	
Not Printing	* 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.	* 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	* Label or ribbon is loaded not correctly.  * Use wrong type paper or ribbon	* 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	* Running out of ribbon. * The ribbon is installed incorrectly.	* Supply a new ribbon roll.  * Please refer to the steps in user's manual to reinstall the ribbon.	
No Paper	* 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 in user's manual to reinstall the label roll.  * Calibrate the gap/black mark sensor.	
Paper Jam	* 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	* Peel function is enabled.	<ul> <li>* If the peeler module is installed, please remove the label.</li> <li>* If there is no peeler module in front of the printer, please switch off the printer and install it.</li> <li>* Check if the connector is plugging correctly.</li> </ul>	
Can't downloading the file to memory (FLASH / DRAM/CARD)	* The space of memory is full.	* Delete unused files in the memory.	

microSD card is unable to use	* microSD card is damaged.  * microSD card doesn't insert correctly.  * Use the non-approved SD card manufacturer.	* Use the supported capacity microSD card.  * Insert the microSD card again.  * The supported microSD card spec and the approved microSD card manufacturers, please refer to section 2.2.3.
Poor Print Quality	* 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.	* 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	* Wrong label size setup.	* Set the correct label size.
Gray line on the blank label	* The print head is dirty. * The platen roller is dirty.	* Clean the print head. * Clean the platen roller. (Please refer to chapter 9)
Irregular printing	* The printer is in Hex Dump mode. * The RS-232 setting is incorrect.	* Turn off and on the printer to skip the dump mode. * Re-set the Rs-232 setting.
Label feeding is not stable (skew) when printing	* The media guide does not touch the edge of the media.	If the label is moving to the right side, please move the label guide to left.      If the label is moving to the left side, please move the label guide to right.
Skip labels when printing	<ul> <li>* Label size is not specified properly.</li> <li>* Sensor sensitivity is not set properly.</li> <li>* The media sensor is covered with dust.</li> </ul>	* 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	* Printhead pressure is incorrect.  * Ribbon installation is incorrect.  * Media installation is incorrect.  * Print density is incorrect.  * Media feeding is incorrect.	* Please refer to the next chapter.  * Please set the suitable density to have good print quality.  * Make sure the label guide touch the edge of the media guide.
RTC time is incorrect when reboot the printer	* The battery has run down.	* Check if there is a battery on the main board.
The left side printout position is incorrect	* Wrong label size setup. * The parameter Shift X in LCD menu is incorrect.	* Set the correct label size. * Press [Menu] →[Setting] → [Shift X] to fine tune the parameter of Shift X.

#### \* 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. ? × 列印喜好設定 Page Setup | Graphics Stock | Options | About | Media Settings Media sensor sensitivity is Use Current Printer Setting Method: not set properly. Lype: Labels With Gaps -The printing position of small \* Label size is incorrect. Gap <u>Offset</u> 0.00 mm Gap <u>H</u>eight: 3.00 mm label is incorrect The parameter Shift Y in the - Media Handling-LCD menu is incorrect. Post-Print Action: Tear Off + The vertical offset setting in Ogcurrence: After Every Page w the driver is incorrect. Feed Offset 0.00 mm Position Adjustments Yertical Offset: 0.00 mm 確定 取消 套用(<u>A</u>) 說明

# 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		
1 1111001 1 01110			
	<ol> <li>Always turn off the printer before cleaning the print head.</li> <li>Allow the print head to cool for a minimum of one minute.</li> <li>Use a cotton swab and 100% Ethanol or Isopropyl Alcohol to clean the print head surface.</li> </ol>	Clean the print head when changing a new label roll.	
		即字頭~	
Print Head	印字頭元件。	印字頭元件。	
Platen Roller	Turn the power off.     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
2017/7/20	Add Ch.3.4.3 Loading Media in Peel-off Mode (Option for WPL614P Series)	Kate
2017/8/15	Revise Ch.1.2.2 Option Card (GPIO + Parallel) from factory option to dealer option.	Kate
2017/8/25	Add Ch.1.2.2 Paper thickness of Regular cutter. Add Ch.1.2.2 User option Peel-off module assembly.	Kate
2017/11/16	Add Ch.1.2.2 minimum label peeling height on peel-off module assembly.	Kate



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