

LP423N / LP433N USER MANUAL



User Manual: LP4 series Issue Date: 2018/08/31

Version 4.1



Declaration

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Trademark



Compliances

CE Class B

FCC Part 15, Class B

CCC, CB, BIS, KC

Comply with RoHS regulation

警告

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。



Safety Instructions

Please read the following instructions carefully.

- Install printer on the flat and stable place. To avoid printer exposed in the high temperature or high humidity or polluted place.
- 2. Do not disassemble the printer and adapter under any circumstances.
- Please check the voltage before printer is connected with power outlet; If
 printer is deemed to idle for a long time, please pull out the power cord to
 avoid voltage instability to cause printer damage.
- 4. If printer gets water or conductive material, please shut off the power immediately to ensure the safety of personnel and equipment.
- 5. To avoid printer to start printing while there is no label paper installed; otherwise the print head and platen roller would be damaged.
- 6. The print head is a thermal part, please do not touch it or its peripherals during printing or after printing.
- 7. Shut down the printer when connecting or disconnecting interfaces to avoid any damage happened.
- 8. Please choose designated adapter model of Wincode to connect printer accordingly.



Contents

Dec	claration	1 -
Saf	fety Instructions	2 -
Cor	ntents	3 -
1.	Product Introduction	5 -
	1.1 Unpacking and checking	6 -
	1.2 Appearance	7 -
2.	Setup	9 -
	2.1 Setting up the printer	9 -
	2.2 Ribbon Loading	10 -
	2.3 Label Loading	16 -
	2.4 Real Time Clock Battery Installation	19 -
	2.5 Cutter Installation (Optional)	20 -
	2.5.1Label Installation	22 -
	2.6 Peeler Installation (Optional)	23 -
	2.6.1Label Installation	26 -
3.	Driver installation	27 -
	3.1 Printer Installation	28 -
	3.2 Install driver with "Add a Printer" in Microsoft	32 -
	3.2.1 Printer Installation	33 -
	3.3 Printing Setup (Driver Setup)	40 -
	3.3.1 Page Setup	40 -
	3.3.2 Media Settings	41 -
	3.3.3 Sensor Calibration	43 -
	3.3.4 Options	44 -
	3.3.5 Image Processing	47 -
	3.3.6 Tools	48 -
	3.3.7 About	49 -
4.	WinLabel tool suite	50 -
	4.1 Software Introduction	50 -
	4.2 Software Installation	51 -
	4.3 WINLABEL Label Editing Software	52 -
	4.4 Update settings and update check	53 -
	4.5 Firmware update Tool	54 -
5.	Printer Utility	55 -
	5.1 Printing Summary	57 -
	5.2 Settings	58 -



LP4 USER MANUAL

	5.3 File Management	51 -	
	5.4 Send Command	52 -	
6.	LED indicators and button explanation	53 -	
7.	Maintenance	<u> 6</u> 6	
8.	Appendix – LP4N series specification 6	5 7 -	



1. Product Introduction

Thank you for purchasing Wincode's LP4N series label printer, this desktop label printer with reasonable price has reliable quality to provide user highly-efficient printing performance. The LP4 series printer not only can print label in text or graphic formats, but owns basic function and convenient operation interface.

In addition, LP4N series label printer with elegant bright black enclosure has cover open buffer design to avoid hand clamped in operation; The maximum 5" outside diameter label loading space; Dual ribbon loading design enables user to use 100m or 300m ribbon; It is also equipped 32 bit processor with highly efficient relevant configurations to make printing action smoothly and clearly so it can be applied in the different fields such as retailing, health care, manufacturing, logistics, warehousing and so on.

The bundled label design program as "WinLabel" provides completed label design tools and barcode resource for user to design ideal label format; Free database function can be connected with Excel, Access, Text file...etc. and get required information in the specified position of label. Standalone function can support advanced models LP4A series to produce standalone format label.



1.1 Unpacking and checking

Unpacking the package, and refer to the below packing list to check whether any part is damaged or missing in transit. If this incident has been happened, please contact with local dealer or distributor for further assistance.





1.2 Appearance



(Figure 1: Front View)



(Figure 2: Rear View)





(Figure 3: Inside View)

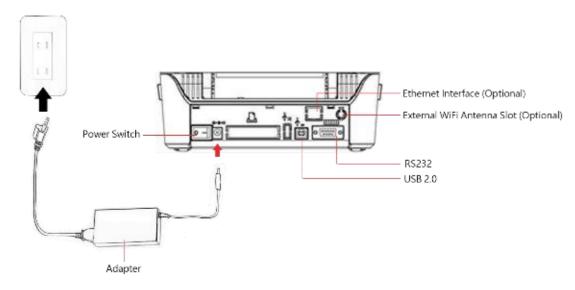
000

250V, 10A



2. Setup

2.1 Setting up the printer



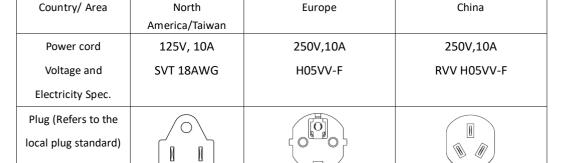
- 1.) Place the printer on the flat surface.
- 2.) Make sure the power switch is OFF.
- 3.) Choose corresponding cable (RS232 or USB 2.0) to connect printer with computer.
- 4.) Plug the DC power cord into the power slot and plug the AC power cord into a socket on the wall.

Note: Power Cord instruction

- To use 100-125 Voltage, please choose minimum rating power cord. (125V, 10A)
- To use 200-240 Voltage, please choose minimum rating power cord. (250V, 10-16A)
- Please select the power cord length less than 2 meter.

125V, 10A

 Power cord is connected with adapter and have to plug in the jack as ICE-320-C13 as right figure.



250V, 16A



2.2 Ribbon Loading

1" core (300m length ribbon)
 Open the ribbon cover and top cover; Install an empty paper core onto the ribbon take-up spindle; Install a ribbon onto the ribbon supply spindle.







0.5" core (100m length ribbon)

Open the ribbon cover and top cover; install the two 0.5" ribbon caps on the right white holders.









2) Pull back the pressing lever, then load the right side of ribbon first into the ribbon supply mechanism.

The left side of ribbon supply spindle needs to be connected with bulge part of left supply mechanism completely (Turn the gear until the bulge part in the notch of spindle).









3) Load the right side of paper core first into the ribbon take-up mechanism.

The left side of ribbon take-up spindle needs to be connected with bulge part of take-up mechanism completely. (Turn the gear until the bulge part in the notch of spindle).







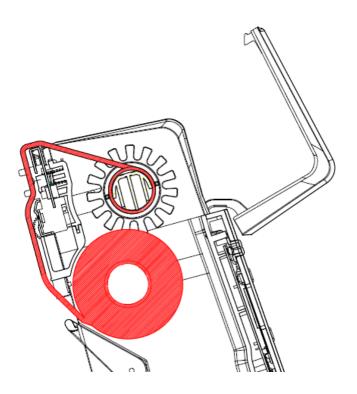
4) Pull the ribbon to bypass print head and then attach the ribbon leader on the empty paper core with tapes, then rotate the ribbon rewind wheel until ribbon surface has no wrinkle; Close the ribbon cover to finish ribbon installation.







6. Ribbon Installation Path





2.3 Label Loading

1) Hold on each side of label holder, press the orange buttons and then arrange the width, and place a label roll between the holders.





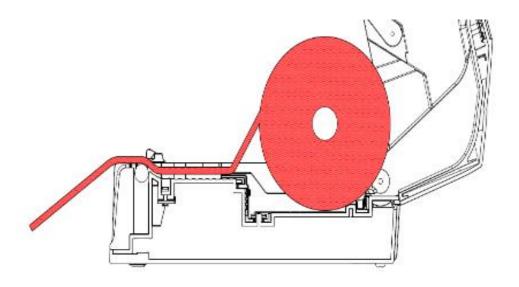
2) Pull the label paper through the rubber roller and push the both sides of label under the label guides. Close the top cover to finish label installation.







3) Label installation path







2.4 Real Time Clock Battery Installation

2.4.1 Get started (Battery is excluded in the LP4N model)

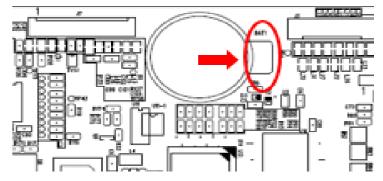
- 1) Turn off the power, and then remove the power cord and relevant connected cable.
- 2) Open the chassis cover at the bottom, there is a battery with insulation sheet.



3) Pull out the insulation shim.

2.4.2 Replace the battery

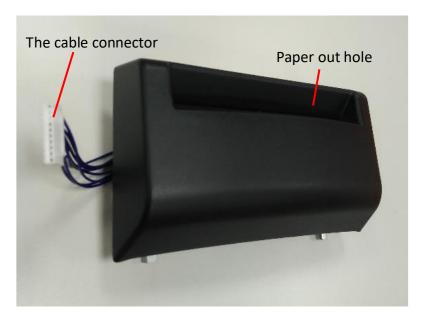
- 1) Turn off the power and disconnect all the cables attached.
- 2) Loose the three screws at the bottom, and then open the lower part cover to see the motherboard.
- 3) Press the button beside the battery as below figure.
- 4) The battery would be left from the mount.
- 5) Place a new battery and then press until it is fixed in the installation mount.



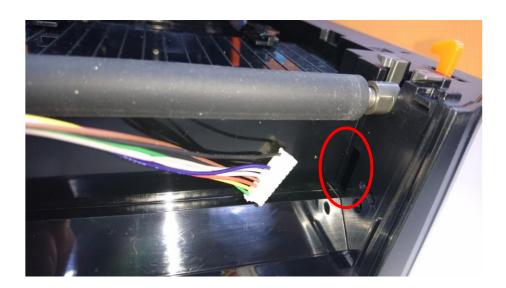
^{*}Notice: the battery model CR2032 is recommended.



2.5 Cutter Installation (Optional)

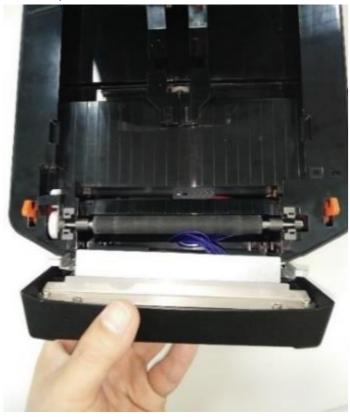


- 1) Turn off the power and disconnect all the cables attached.
- 2) Open the upper cover and take down the [front baffle].
- 3) Make the connected cable go through the hole of right side of lower part.





4) Place the cutter in the position of the front baffle, and then close the cover.



5) Open the bottom cover, and find the cable of cutter inside.





6) Place this cable into the slot of motherboard, and close the bottom cover.



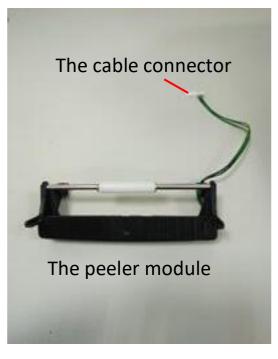
2.5.1Label Installation

- 1) Follow 2.3 to load on the label.
- 2) Pull out the label through the paper outlet hole, and then close the cover.





2.6 Peeler Installation (Optional)





- 1) Turn off the power and disconnect all the cables attached.
- 2) Open the upper cover and take down the front baffle.
- 3) Make the connected cable go through the hole of right side of lower part.





4) Install the peeler module into the two holes of the left and the right sides of the lower cover part (right-side go first).







5) Place the spring part on the iron piece firstly, and install this iron piece into the notches (spring side in the right side) and then check if the arrow mark of iron piece pointing to the front.



- 6) Open the peeler module, and then close the upper cover.
- 7) Open the bottom cover and find the peeler cable connector.
- 8) Place the cable connector into the slot of motherboard and then close the bottom cover.





2.6.1Label Installation

- 1) Follow 2.3 to load on the label.
- 2) Tear the first labels and leave the backing liner, pull down the backing liner and make the label through between the iron piece and white roller.



3) Push back the peeler module, and then close the upper cover.

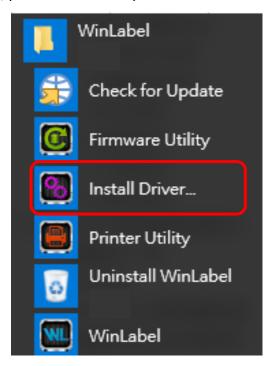




3. Driver installation

The printer could support USB, RS232 and TCP/IP connection. After WinLabel installation, the user could find and execute it in the start menu of Windows. For the WIFI or Ethernet connection, please select "adding TCP/IP port" to install driver.

For RS232 connection, please select COM port to install driver.





3.1 Printer Installation

Step1

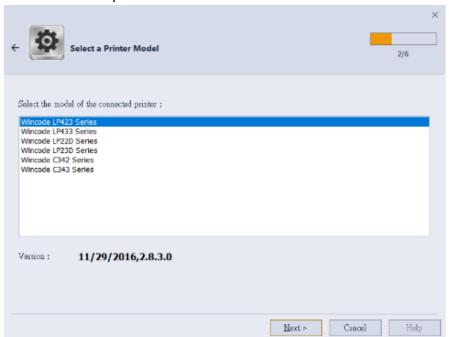
After WinLabel installation, the user could find the "Install Driver" icon in the START menu to execute it.

Connect printer to the computer with USB/ RS-232 / LPT cable and then press the Next icon.

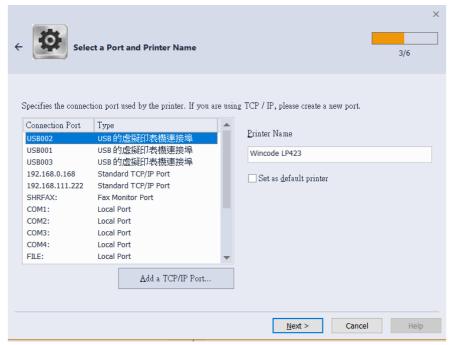


Step2

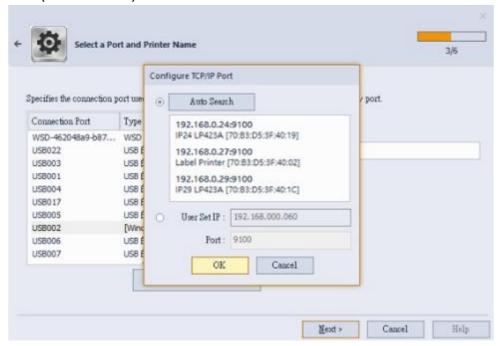
Choose the model of the printer and then click "Next".







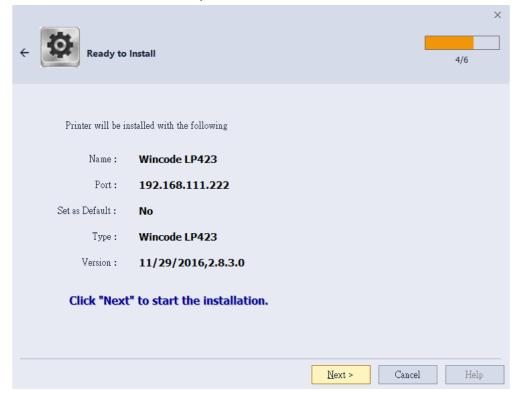
- USB connection: the program will select the connected port automatically.
- RS-232, LPT connection: please select the corresponding COM or LPT port.
- Ethernet or WIFI or share IP connection: please select "add a TCP/IP port"
 - Automatically search: this function would search the whole printers that are ready connected to the router, it will bring a corresponding IP of each printer automatically.
 - If the user selects the manual IP input, please insert the custom IP and port (default: 9100).





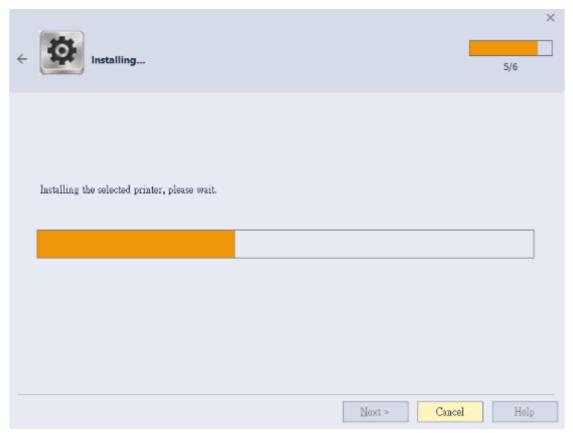
Step3

If the showed information is correct, click "Next" to start driver installation.



Step4

The driver installation would require several minutes.





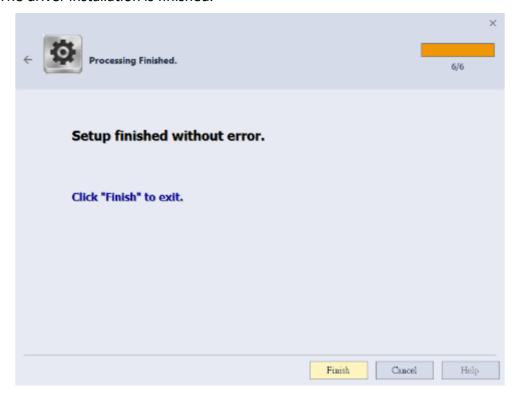
Step5

If a "Windows Security" window popup, please select "install this driver software anyway".



Step6

The driver installation is finished.

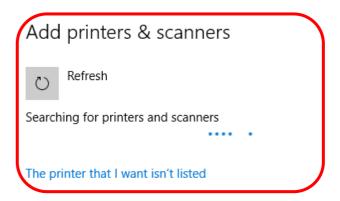




3.2 Install driver with "Add a Printer" in Microsoft

Use the "add new printer" at the control panel of Microsoft to install the driver

- Windows 10 Platform
 - 1) Click "Start" > "Setting" > "Devices" > "Printers & scanners"
 - 2) Click "Add a printer or scanner" and then start searching, if the device cannot be found, select "The printer that I want isn't listed"

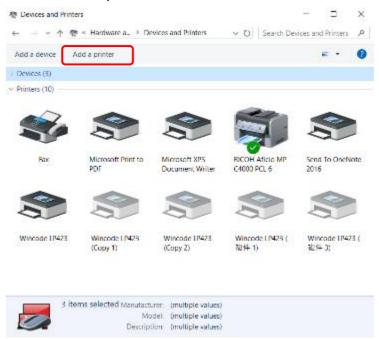


Printers & scanners



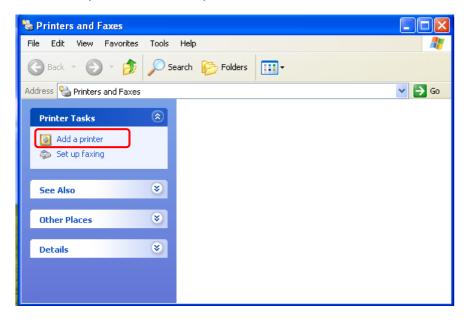
EPSON LQ-690C ESC/P2

- Windows 7 and Windows 8 Platform
 - 1) Enter "Devices and printers" from the control panel or click "start" and select "Devices and printers"
 - 2) Click "Add a new printer"





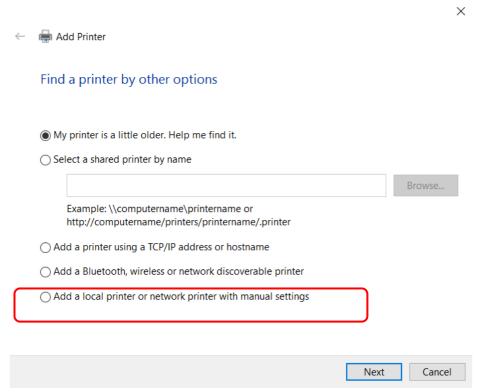
- Windows XP Platform
 - 1) Enter "Printers and Faxes" from the control panel or click "start" and select "Setting" > "Printers and Faxes"
 - 2) Click "Add a printer" > "Add a printer wizard"



3.2.1 Printer Installation

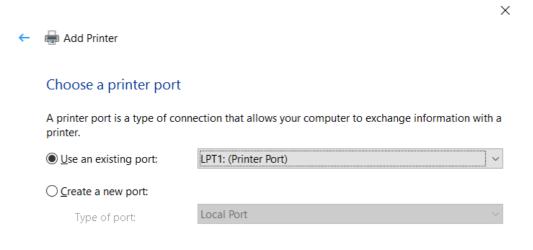
(For example: in the windows 10 platform)

 Follow the step above, select "The printer that I want isn't listed" > "Add a local printer or network printer with manual settings" > "Next"





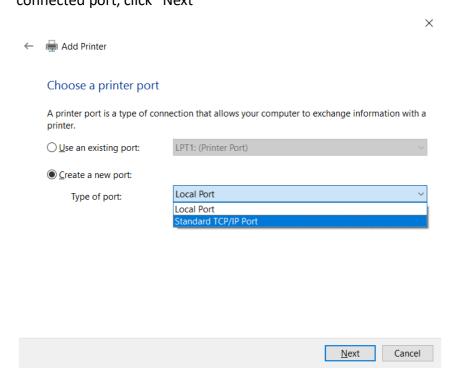
- 2) Choose a printer port
 - For USB, COM, LPT printers, please select "Use an existing port", choose the corresponding port, then click "Next" (Then go to step "6)")





<u>N</u>ext

Cancel



×



3) Key-in the IP address of the printer and then click "Next".

**Type a printer hostname or IP address

Device type:

Hostname or IP address:

192.168.0.123

Port name:

192.168.0.123

Query the printer and automatically select the driver to use



4) Wait for TCP/IP port detecting.

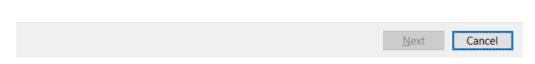


Detecting TCP/IP port

Detecting the TCP/IP port...

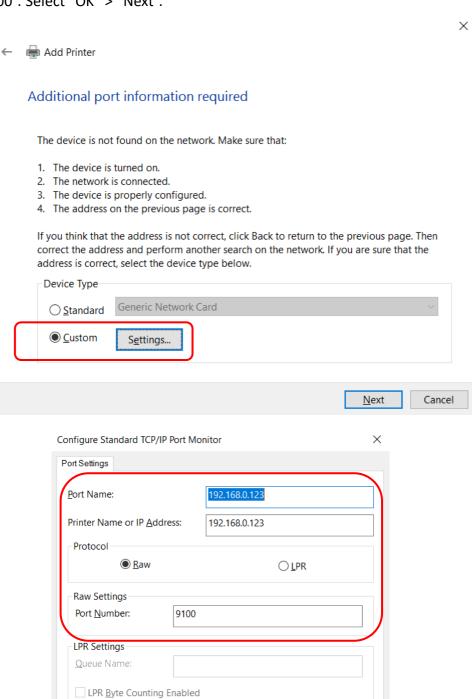
Windows will automatically move to the next page when the detection is complete.







5) Select "Custom" in "Settings", and fill up the port name, printer name or IP address. For Protocol, please select "Raw". For Port Number, please fill up "9100". Select "OK" > "Next".



OK

Cancel

public

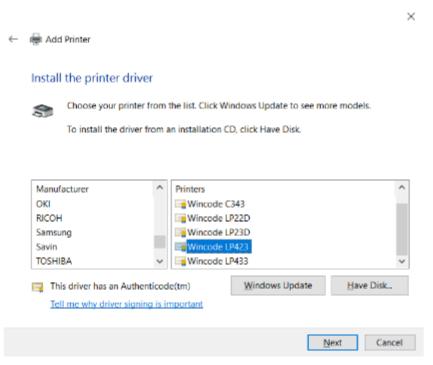
SNMP Status Enabled

Community Name:

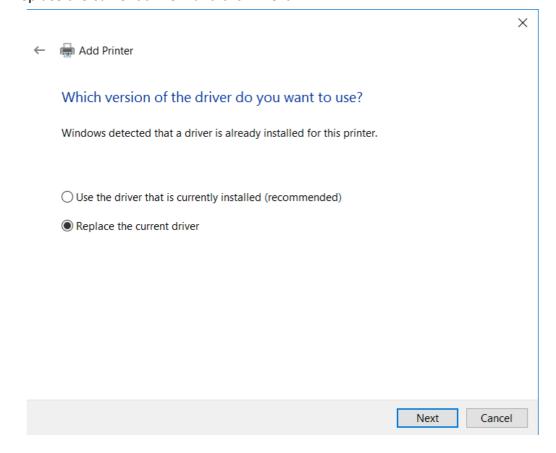
SNMP \underline{D} evice Index:



6) Choose the printer driver that you want to install, and select the printer manufacturer and then select the printer driver . Click "Next".



*If the same driver has been installed, it will show the following window, select "Replace the current driver" and click "Next".





Type a printer name Printer name: Wincode LP423 (Copy 4) This printer will be installed with the Wincode LP423 driver. Next Cance Select "Do not share this printer" click "Next". Add Printer Printer Sharing If you want to share this printer, you must provide a share name. You can use the suggested name or type a new one. The share name will be visible to other network users. Do not share this printer Share this printer so that others on your network can find and use it Share name: Wincode LP423 (Copy 4) Location: Comment	En	nter the printer n	ame, click "Next".			
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Location:		\bigcirc Share this printer so that others on your network can find and use it				
Location:			Wincode LP423 (Copy 4)			
		Share name:				
<u>C</u> omment:						
		<u>L</u> ocation:				
		<u>L</u> ocation:				
		<u>L</u> ocation:				



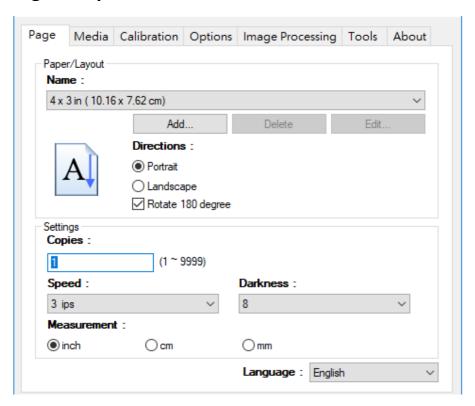
9) The user may select "Set as the default printer", click "Finish".

←	Add Printer	^
	You've successfully added Wincode LP463	
	Set as the default printer	
	To check if your printer is working properly, or to see troubleshooting information for the printer, print a test page.	1
	Print a test page	
	Finish Cancel	i



3.3 Printing Setup (Driver Setup)

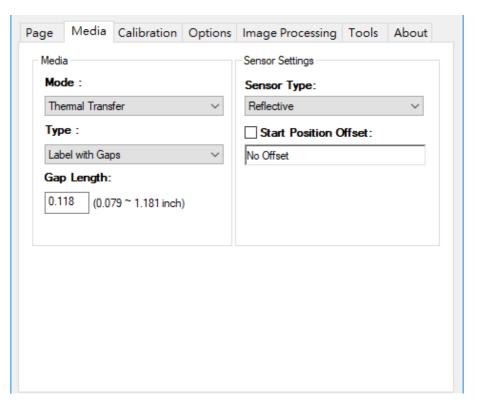
3.3.1 Page Setup



Item	Description
Paper/Layout	Name: Choose paper size (4 x 3 inch and 2 x 1
	inch); User can also define frequently-used paper
	size by adding new label format.
	Directions: Portrait and landscape (rotate 90
	degrees); 180 degrees rotation is default settings.
Settings	Copies: Each page quantity
	Speed: Printing speed
	Darkness: Adjust Printing darkness status.
	Caution : If the value is higher, that would cause the temperature of print head higher, and would make ribbon melting and breaking easily. (Suggest value less than 8 for wax ribbon, the value more than 10 for resin ribbon)
	Measurement: inch, cm, and mm.



3.3.2 Media Settings



Item	Description	
Media	Mode: Thermal Transfer and Direct Thermal.	
settings	"Thermal Transfer" mode means that printer needs to be	
	loaded ribbon for printing.	
	"Direct Thermal" mode means that printer does not require	
	ribbon but need to be loaded thermal paper.	
Media type	Label with gaps :	
	"Gap Length" is the distance between two labels.	
	Label with marks:	
	"Black Line" is the thickness in each black line.	
	Continuous:	
	> Continuous label type: Ignoring the gap or mark of label	
	> Stop On Last Element: Printing action will stop while	
	printing the last label	
Sensor	Sensor type:	
settings	Use Current Printer Setting (by previous setting)	
	Reflective sensor (Recommend)	



Transmissive sensor

Start Position Offset: (recommend to input number when the printing pattern has a little bit shift up or shift down)

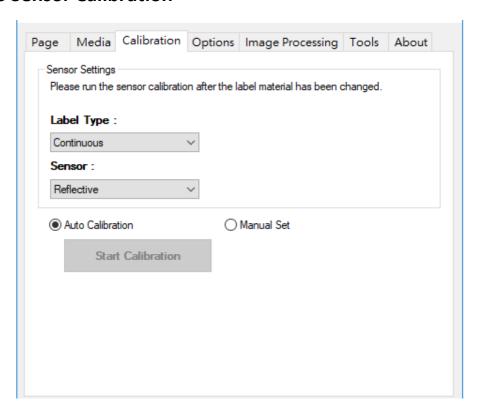
If selected, user could fill up the value by dot.

(+value: pattern shifts up; 203dpi: 1mm=8 dots; 300dpi:

1mm=12 dots.)



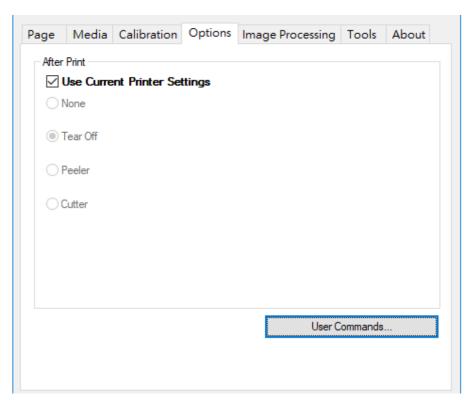
3.3.3 Sensor Calibration

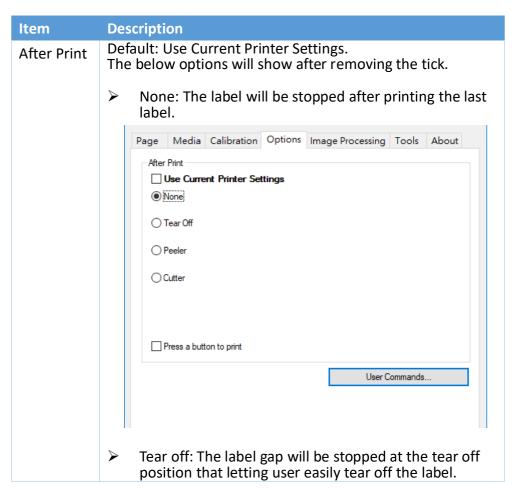


Item	Description
Auto Calibration	The calibration would adjust the sensitivity of sensor according to the feeding label thickness.
	We suggest to run the "Auto calibration" for most kinds of labels, or while the label material is different from the previous label. If it is the same material but different size, user only needs to adjust the page size.
Manual Set	Sensor Strength: Middle or High are recommended. Higher sensor strength would detect thicker label. Manual Set Sensor Strength: Middle Set to Printer



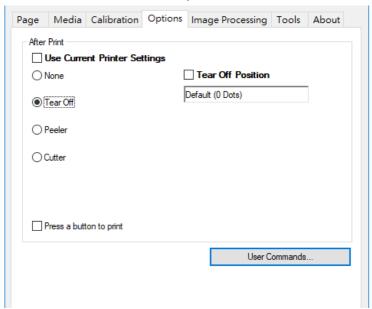
3.3.4 Options





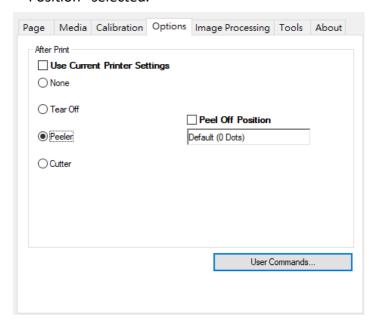


The tear off position is adjustable as long as selecting the "Tear Off Position" option.



Peeler: with peeler module, the labels can be peeled continuously while printing. The printer will feed the next label after the current label peeled.

The Peel position can be adjusted with the "Peel Off Position" selected.

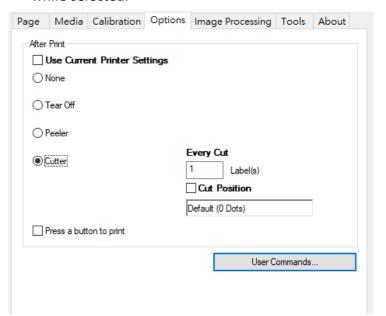


Cutter: with cutter module, the cutter operates after printing each label.



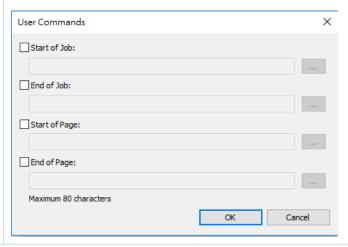
"Every Cut": the amount of pages that come out once running the cutter.

"Cut Position": the cutting position will be adjustable while selected.



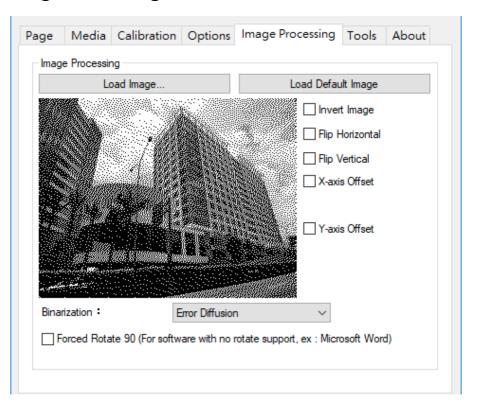
User Commands

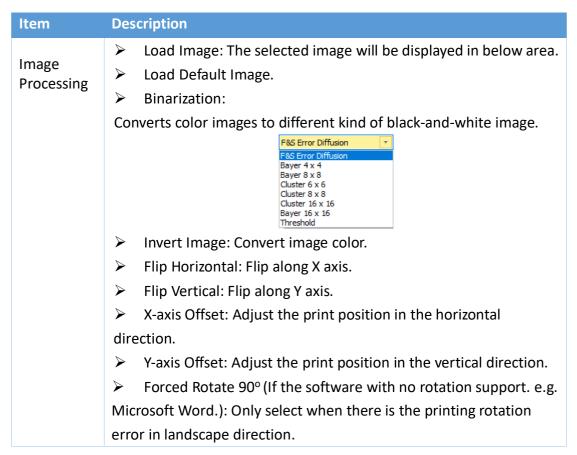
User can fill in the printer commands in this dialog when it is needed. Select and press "...", a new window will pop out and the user can key in the commands.





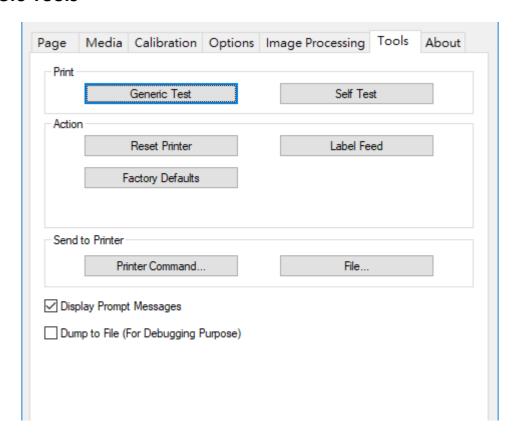
3.3.5 Image Processing







3.3.6 Tools



Item	Description
Print	 Generic Test: ask printer to print a label with texts for testing purpose. Self-Test: ask printer to print a label with inside parameters of printer.
Action	> Reset Printer: Restart printer.
	> Factory Defaults: Inside parameters to be default
	➤ Label Feed: ask printer to deliver a label come out
Send to Printer	Printer Command: Send commands to the printer, please refer to the <u>WINCODE's WPL Command Manual</u> .
	Files: Select a command file (*.prn) from the stored space of computer
Dump to File (For Debugging Purpose)	Click this option to generate .prn file when use the third-party software.



3.3.7 About

WINCODE driver version.





4. WinLabel tool suite

4.1 Software Introduction

WinLabel tool suit supports the below platform: Windows XP SP3, Vista,
Windows 7, Windows 8, Windows 8.1, Windows 10, Server 2003, Server 2008,
Server 2012 and Server 2012R2 operation system (32 bit and 64 bit).

Note: The monitor resolution needs to be at least 1024 x 768 for normal use.

Icons	Description
WL	WinLabel: Label editing software
	Printer Utility: Printer tool
	Install Driver: Driver installation tool
	Firmware Driver: Firmware update tool
	Check for Update: Version check
(0)	Uninstall WinLabel: Uninstall all installed software



4.2 Software Installation

Click "WINLABEL_SETUP.EXE" file which could be downloaded from our official website (http://www.wincodetek.com/service), choose a preferred language (English, Spanish, Turkish, traditional Chinese, simplified Chinese, and Korean) and then input a stored path to finish the software installation.



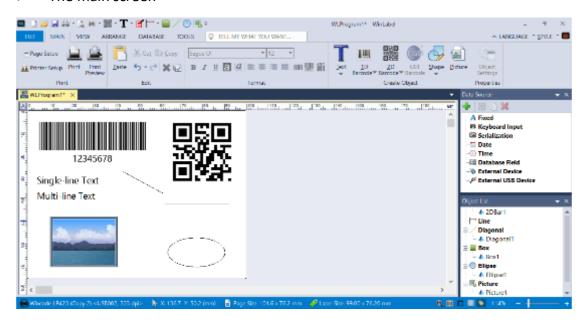


4.3 WINLABEL Label Editing Software

> The Welcome screen



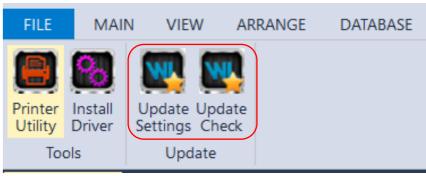
> The main screen

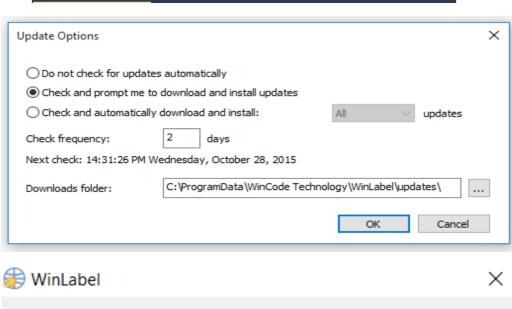


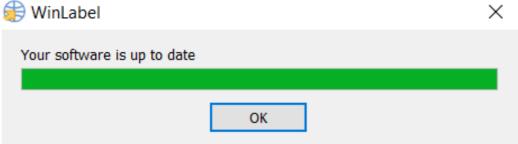


4.4 Update settings and update check

After entering the WinLabel program, click the "Update Check" icon in "TOOLS" page and check if it is the latest version. The program can be updated automatically. Besides, user can click "Update Settings" icon for adjusting the update settings









4.5 Firmware update Tool

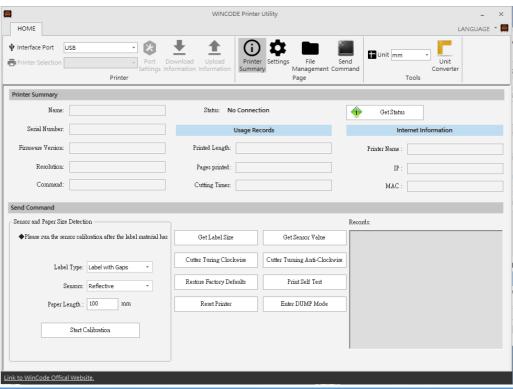
- When user receives the *.ulf FW file, please execute the file directly and the system will open the firmware update tool automatically. After confirming the version, please press "burn" and wait until the "update finished" information shown.
- The update procedure can be run with USB \ RS-232 \ LPT \ Ethernet (USB is recommended.)
- Press the "Search" button when selecting Ethernet, the system will search the LAN network and list all the connecting printers.

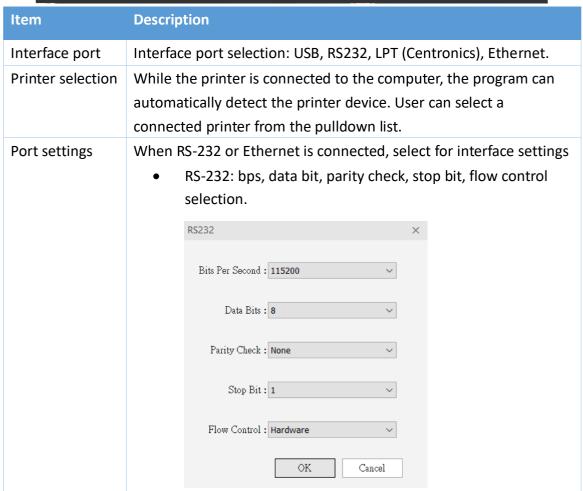


Item	Description
Port	Term: select the connecting way: USB, RS-232, LPT, Ethernet
	connect : select the connected printer.
Firmware file	Confirm the firmware version
	The system will connect the firmware update tool automatically and
	show the information while executing the *.ulf file
Burn	Burn the firmware into the printer
Get information	Get the serial number and the firmware version of the printer
Exit	Leave the firmware update tool



5. Printer Utility







Ethernet: auto or manual insert selection Set TCP/IP Port Auto Detect 192.168.0.27:9100 Label Printer [70:83:D5:3F:40:02] 192.168.0.29:9100 IP29 LP423A [70:83:D5:3F:40:1C] Input IP: 192.168.0.60 Port: 9100 OK Cancel Download The current printer setting information can be showed in the information Printer Summary area. The settings in the Printer Utility will be uploaded to the printer. Upload information

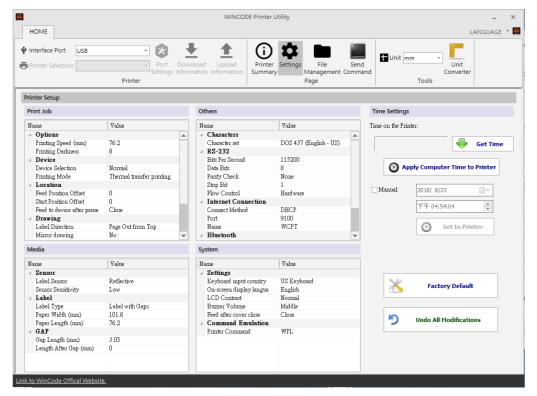


5.1 Printing Summary

Printer Listing printer information Summary æ Send Command window **Start Calibration** Run the sensor calibration after the label material has changed. If it is the same material but different size, only need to adjust the "Page Setup" at WinLabel. It is recommended to use "auto detection". Get Label Size: get the detected value of label size at the right table Get sensor value: get the detected value of the sensors at the right table Cutter Turning Clockwise: cutter cuts label from top to bottom (Fully cut) Cutter Turning Anti-Clockwise: cutter cuts from bottom to top (Not completely cut-off the label, the user can tear off the label) Restore Factory Defaults: restore the parameters of the printer to factory default settings. Printer Self Test: print out the internal settings of the printer. Reset Printer: restart the printer Enter DUMP Mode: enter to the DUMP mode (Press "menu" for returning to the original mode) Settings Please refer to the 3.5.2 Settings File Check the detail files in the different store spaces Management O [Smiths] - De Fratar Forme Togelol No. Sand Rivin Render District 25 History. History Smit of Line Send Be able to send command to the printer, please refer to the Printer command Command Manual. **Unit-Tools** Printing measurements: millimeter (mm), centimeter (cm), inch (in). page



5.2 Settings



1) Print Job

Item	Description
Printing Speed (mm)	Select required speed
Printing Darkness	Select the required parameters from 0 to 15; adjust the
	temperature of the print head (8 is recommended for wax ribbon)
Device Selection	Normal, tear-off, peel-off and cutter modes are selectable.
Printing Mode	Direct Thermal and Thermal Transfer modes are selectable
Feed Position Offset (After	Input the required parameters. (If the printer is connected
printing)	to cutter/peeler, user may use this for offset settings.
	Default: 0)
Start Position Offset	Input the required parameters (Plus value feeds more
(Before printing)	distance; minus value back feeds more distance)
	* 203 dpi:8dot=1mm, 300 dpi:12dot=1mm
Feed to device after pause	Close: while pressing button, printer stop printing immediately.
	Open: while pressing pause button, printer will stop printing after completing the current label.
Label Direction	Label-out from the top or Label-out from the bottom
Mirror Drawing	No effect or mirror reflection.



Drawing origin X axis offset	Input the required parameters
Drawing origin Y axis offset	Input the required parameters

2) Media

Item	Description
Sensor-Label Sensor	Which sensor is using; Reflective / Transmissive
	selectable.
Sensor-Sensor Sensitivity	Low / Middle / High selectable.
Label-Label Type	Label with Gaps / Label with Black Line / Continuous
	label selectable.
Label-Paper Width	User can enter the parameter. (default: 4 inches)
Label-Paper Length	User can enter the parameter. (default: 3 inches)
Gap-Gap Length	User can enter the parameter. (default: 0.4016 inches)
Gap-Length after Gap	User can enter the parameter.
Label with Black Line-Black	User can enter the parameter. (default: 0.4016 inches)
Line Thickness	(Only when it is loaded the label with black line.)
Label with Black Line-Length	User can enter the parameter.
after Black Line	(Only when it is loaded the label with black line.)

3) Others

Item	Description
Characters	User can adjust the parameters.
RS-232	User can adjust the parameters when the port is RS-232.
Internet Connection	User can adjust the parameters while selecting "manual". Default: DHCP.
Bluetooth	User can enter the name and PIN code.



4) System

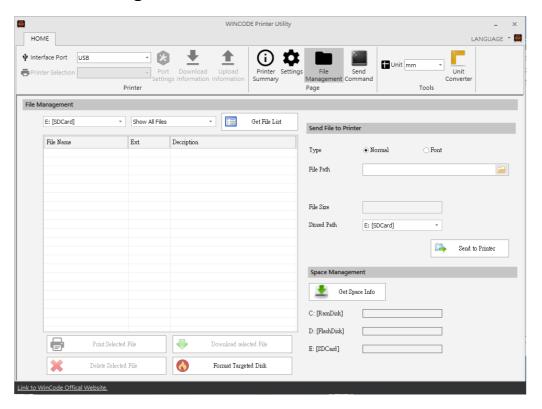
Item	Description			
Setup-Keyboard Input	Default: US Keyboard			
country				
Setup-On-screen display	English, Traditional Chinese, Simplified Chinese, Spanish,			
language	Italian, Vietnamese, Korean.			
Setup-LCD Contrast	Review the LCD contrast settings			
Setup-Buzzer volume	Review the Buzzer volume settings in the printer			
Setup-Feed after cover	Close / Open			
closed				
Setup-label used up	Close / Open (Optional)			
indication				
Cational lab al la math Forman				
Setup-label length Error	Close / Open, after selected, if the label size does not match			
control	the settings, the system sends the error report.			
Printer Command	Printer Emulation Switch			
	Auto Detect (Default), detect WPL, TSPL, ZPL, EPL, DPL			
	automatically.			

5) Time Setup

Item	Description
Printer Current Time	 Get the time: to get the current time of the printer. Synchronize the time of the computer to the printer. Manual setup: the user can setup the time of the printer.
Reset to manufacturer default	Reset the printer to manufacturer default
Undo	Reset all the parameters to the original parameters, will not affect the setup in the printer.



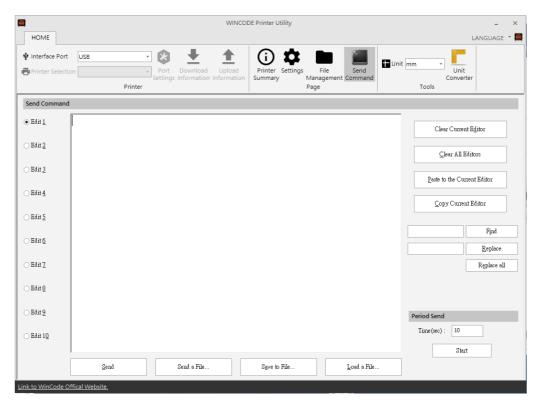
5.3 File Management



Item	Description			
Get the file list	To get the file list from C:[RamDisk], D:[FlashDisk] or E:[SDcard]			
Format the target disk	Initialize the disk			
Delete selected file	Delete the selected files.			
Download selected file	Download the selected files.			
Print selected file	Print out the selected files.			
Send the file to the printer	Send the selected files or font to the assigned storage area in the printer • File path: select the file that needed to be uploaded • File size: show the size of the file automatically • Storage location: select the storage location from C:[RamDisk] \ D:[FlashDisk] \ E:[SDcard]			



5.4 Send Command



Item	Description			
Edit Zone	Edit the command			
	Clear the current edit zone: to clear the command			
	in the current edit zone			
	Clear all the edit zone: to clear all the command in			
	the edit zone			
	Paste to the current edit zone: paste the command			
	to the current edit zone			
	• Copy the current edit zone: copy the content in the			
	edit zone			
	Search: search the specific content in the edit zone			
	Search and replace: replace the searched content			
	Replace all: replace all the assigned content from the			
Send	edit zone Sond the command to the printer			
	Send the command to the printer			
Send the file	Send the file to the printer			
Save the file	Save the command in the edit zone			
Read the file	Read the file at the edit zone			



6. LED indicators and button explanation



LP423N/LP433N model equips six functional LED indicators (blue color) and a feed button (white and red LED color), user can understand the current printer status easily according to the LED display status. The description of each LED display status is listed as follows.

LED	Display status	Possible problem	Solution
LED 1	Always on:	The label placement is	Open the cover, and confirm
LABEL	Label out	not correct or labels	the label placement and if the
		been run out.	label has been run out. Then
			close cover and press the Feed
			button.
	Flash: Gap out	Sensor cannot detect	Run the auto calibration on
		the gap of label.	the Pinter Utility to adjust the
			sensitivity of sensor.
LED 2	Always on:	Cutter installation is	Re-install the cutter module
CUTTER	Cutter module is	not correct	and check the cutter
	not ready		connector connection.
	Flash : Paper jam	1) Check if the label	Place label in the correct
		thickness is exceeded	position and press button to
		the spec of cutter	start printing.
		module.	



WINCODE			EI + OSEIT IVI/TIO/TE
		2) Label placement is not correct	
LED 3 RIBBON	Always on : No detect ribbon Flash : Ribbon exist	Ribbon placement is not correct or ribbon is possibly run out. Ribbon exist but printer	Open top cover and ribbon cover, re-install the ribbon and confirm if it has been run out. After checking, close the ribbon cover and enter the feed button to start printing. Remove the ribbon when the
	but setting is in direct thermal mode. Flash: Data transfer	is in direct thermal mode, Data transfer	settings in direct thermal. Waiting data transfer finished
LED 5 DEMAND	Always on: Waiting to press button to print next label	Printing process is not finished	Press button once to print a label (repeat this action until the whole printing job has been finished)
LED 6 PAUSE	Always on : Top cover is opened	Top cover is not closed	Open the top cover and then close it. Press feed button to start printing.
	Flash : Pause	Printing process is not finished	Press the button to start printing
Feed Button	Red LED flash: Refers to all errors	Need to check if any other LED is flash to define the issue	Check LED 1~LED 6 whether anyone is always on or flash. If had, please refer to each LED status to deal with problem. If not, shut down the printer and wait 1~2 mins to restart printer.
	White LED always on : Ready	Wait for the print job	
	Red and White LED flash: 1. print head error 2. adapter error	 loosen Print head broken Adapter 	 Check the print head connection Change the adapter
	Special lights: Continuous flashing red LED twice and	The value-added printing length is insufficient.	Use provided tool to add printing lengths.



				•	 	
W	hite LED twice					
P	s: value added					
fu	ınction is opened	t l				

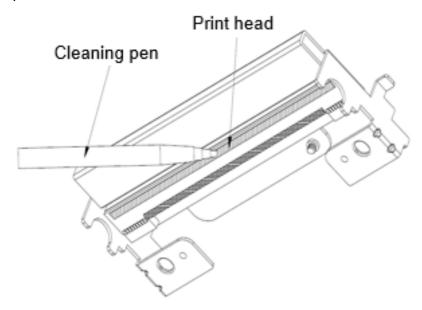
Feed button function				
Printer current status	Printer status after pressing Feed button once			
Ready	Printer will deliver a label out			
Printing	Printer will pause printing action			
Pause	Printer will cancel pause status			
Error (Red LED flash)	Printer will execute the remaining job if the error issue			
	has been solved			
Error (Red LED flash)	Printer will cancel the current printing job to return ready			
	status after pressing Feed button twice			
Auto Calibration	Turn on the power, the feed button will flash in 3 seconds			
	while power is ON. Press the feed button once, the			
	printer could feed labels to run the auto-calibration			
	procedure			



7. Maintenance

The following are some steps and methods to suggest user for proceeding the simple maintenance of the printer.

- 1. Turn off the power firstly, and then open the top cover of printer.
- 2. Take out the ribbon then find the print head. (If the print job has just finished, please wait until it is completely cool.)
- 3. If the print head is adhibited with label paper or dirt, please use a head cleaning pen or a cotton swab with 100% ethanol to clean the surface of the print head.
 Repeat the procedure until it is all cleaned.
- 4. Keep the regular rubber roller cleaning to maintain the printing quality and avoid the print head damage.
- 5. Use compressed air or vacuum to clean the dirt from the sensor.



Note:

- 1.) it is suggested to clean the printhead once a week and to clean the sensor once a month.
- 2.) When using a cotton swab to clean the print head, please make sure that there are no metal fragments or hard particles attached on the cotton swab as that would cause the damage of the print head.



8. Appendix – LP4N series specification

Model	LP423N	LP433N		
Printing method	Thermal Transfer / Direct Thermal			
Resolution	203 DPI 300 DPI			
Max. print speed	127 mm (5") / second	102 mm (4") / second		
Max. print width	108 mm (4.25")	110mm (4.32")		
Max. print length	4572mm (180")	2032mm (80")		
Enclosure	Double	e-walled plastic		
Physical dimension	220mm(W)x1	.98mm(H)x288mm(D)		
·	8.66"(W):	x7.8"(H)x11.3"(D)		
Weight		2.5 KG		
Label roll capacity	127	mm (5")OD		
Ribbon	300M length, n	nax. OD 67 mm, 1" core		
	100M length, max	c. OD 38.25 mm, 0.5" core		
Ribbon width	25.4 mm ~	110 mm (1" ~ 4.3")		
Processor	32-1	bit RISC CPU		
Memory	8MB Flash memory, 16MB SDRAM			
Power	External universal switching power supply, Input: AC 100-240V, 2.0A, 50-60Hz,			
	output: DC 24V, 2.5A, 60W			
Operation interface	1 button, 8 LEDs			
Interface	USB 2.0, RS-232			
	Bluetooth(option), WIFI IEEE 802.11 b/g/n (option), Ethernet 10/100 Mbps (option)			
Sensors	Transmissive gap sensor (adjustable), Reflective gap sensor, Ribbon end sensor, Head op			
Internal fonts		er near end sensor(option) ds of bitmap fonts		
Bar code		e 128, Codabar, EAN/JAN-8, EAN/JAN-13, Interleaved 2-		
bai code		Code, Telepen, UPC-A, UPC-E, UCC-128		
	•	e, QR Code, PDF417, Micro PDF417, Data Matrix, Grid		
	Matrix, Micro	QR Code, MaxiCode		
Printer language	WPL (ZPL, EPL,	TSPL, DPLauto switch)		
Dealer options	Cutter \ Peeler Dispenser \ External label stand			
Media width	Standard :15 ~ 120 mm (0.59" ~ 4.72")			
	With Cutter: 15~117mm (0.59" ~ 4.61") External Label Stand: 15 ~ 115mm (0.59" ~ 4.53")			
Media thickness		mm (2.36 ~ 7.48 mil)		
Media core diameter		.4 mm (1")		
Label length	3 ~ 4,572 mm (0.12" ~ 180")	3 ~ 2,032 mm (0.12" ~ 80")		
Real time clock	RTC (CR2032	battery is excluded)		
Safety regulation	CE Class B, FCC	Class B, CCC, CB, BIS, KC		
Bundled software	WinLabel labelling application, windows printer driver, printer utility, DLL SDK library, EXE executive			
	AP for batch print. Platform support: Windows XP, Vista, 7, 8, 8.1, 10 and Server 2003, 2008, 2012, 2012R2 (32/64 bit			