

# LP423A / LP433A USER MANUAL



User Manual : LP4 series Issue Date : 2016/11/14 Version 2.0



#### Declaration

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# Compliances

CE Class B

FCC Part 15, Class B

CCC, CB

Comply with RoHS regulation



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.
- To avoid printer to start printing while there is no label paper installed;
   otherwise the print head and platen roller would be damaged.
- The print head is a thermal part, please do not touch it or its peripherals during printing or after printing.
- Shut down the printer when connecting or disconnecting interfaces to avoid any damage happened.
- Please choose designated adapter model of Wincode to connect printer accordingly.



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# **1. Product Introduction**

Thank you for purchasing Wincode's LP4A 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 positon of label. Standalone function can support advanced models LP4A series to produce standalone format label.



# 2. Getting Started

### 2.1 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.



Label Printer



CD Disc



Quick Installation Guide



USB Cable



Adapter



Power Cord



Ribbon Supply Spindle Ribbon Take-up Spindle



Empty Paper Core (1" core)



0.5" ribbon cap



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### 2.2 Appearance



(Figure 1: Front View)



(Figure 2: Rear View)





(Figure 3: Inside View)



# 3. Setup

### **3.1 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)

3. Please select the power cord length less than 2 meter.

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

-	U.		L
		U	L
		_	L

Country/ Area	North	Europe	China
	America/Taiwan		
Power cord	125V, 10A	250V,10A	250V,10A
Voltage and	SVT 18AWG	H05VV-F	RVV H05VV-F
Electricity Spec.			
Plug (Refers to the	$\bigcirc$		
local plug standard)			
	125V, 10A	250V, 16A	250V, 10A

![](_page_10_Picture_1.jpeg)

# 4. Ribbon Loading

1. 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.

![](_page_10_Picture_5.jpeg)

![](_page_10_Picture_6.jpeg)

![](_page_11_Picture_1.jpeg)

2. 0.5" core (100m length ribbon)

Open the ribbon cover and top cover; load the 0.5" ribbon cap into the right of the top inner cover.

![](_page_11_Picture_4.jpeg)

![](_page_11_Picture_5.jpeg)

![](_page_12_Picture_1.jpeg)

3. 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).

![](_page_12_Picture_4.jpeg)

![](_page_12_Picture_5.jpeg)

![](_page_12_Picture_6.jpeg)

![](_page_13_Picture_1.jpeg)

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).

![](_page_13_Picture_3.jpeg)

![](_page_14_Picture_0.jpeg)

5. 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.

![](_page_14_Picture_3.jpeg)

![](_page_14_Picture_4.jpeg)

![](_page_15_Picture_1.jpeg)

# 4.1 Ribbon Installation Path

![](_page_15_Picture_3.jpeg)

![](_page_16_Picture_1.jpeg)

# 5. Label Loading

1. Press the label holder button to fit the width of the label, and then place a label roll into the holders.

![](_page_16_Picture_4.jpeg)

![](_page_17_Picture_0.jpeg)

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.

![](_page_17_Picture_3.jpeg)

![](_page_18_Picture_0.jpeg)

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# 5.1 Label installation path

![](_page_18_Picture_3.jpeg)

![](_page_19_Picture_1.jpeg)

# 5.2 Real Time Clock Battery installation

1. Shut down the power, and then remove the power cord and relevant connected cables. Open the chassis cover to see the inside motherboard.

![](_page_19_Picture_4.jpeg)

- 2. Push the button located beside battery as below Figure, the battery will be separated from the motherboard.
- 3. Place a new battery (model no. CR2032 is recommended) on the original place and press it until battery fixed in the installation mount.

![](_page_19_Figure_7.jpeg)

- 1.) Battery is not included in LP423N and LP433N models but is included in LP423A and LP433A models.
- 2.) For LP423A and LP433A models, an insulating piece is placed with battery to prevent battery consumption and also maintain the lifetime of battery.
- 3.) Replace battery with the equivalent battery model suggested by manufacturer.

![](_page_20_Picture_0.jpeg)

![](_page_20_Figure_2.jpeg)

![](_page_20_Figure_3.jpeg)

LP4A models has two color LEDs to show the status (red and blue color) and four

functional buttons. Please see the below explanation.

#### 6.1 LED and button description

Ready – LED shows the blue light, Error – LED shows the red light

Press the Pause button to pause printing job. The red LED will be flash in the

Button 1 MENU/EXIT	Ready mode : Entering to the menu mode Printing mode : No function Menu mode : Leave menu mode	Button 2 CANCEL/UP	Ready mode : No function Printing mode : Press once, cancel this error Press twice, cancel printing job to return ready status Menu mode : Move up or forward
Button 3	Ready mode: Feed a label	Button 4	Ready mode : No function
FEED/ENTER	Printing mode : No function	PAUSE/DOWN	Printing mode: pause printing
	Menu mode : Confirm option		Menu mode: Down or

meanwhile.

![](_page_21_Picture_0.jpeg)

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			backward
Red LED	Flash: Refers to all errors,	Blue LED	Blue LED always on: ready
ERROR	please see the status on the		status
	LCD screen		Blue LED is flash: data
			transmission

![](_page_22_Picture_1.jpeg)

#### 6.2 LCD menu description

#### 6.2.1 Menu main framework

![](_page_22_Figure_4.jpeg)

#### 6.2.2 Application

![](_page_22_Picture_6.jpeg)

Item	Description	
SD card	Need to insert a SD card in the printer firstly, and design the label on	
	the WinLabel and then use"Download"function to download the	
	standalone files to the SD cards	
	PS: Download function will be showed in the "Print" window.	
Flash Disk	Design the label on the WinLabel and then use"Download" function to	
	download the standalone files to the Flash Dish of printer.	

![](_page_23_Picture_1.jpeg)

	The file in the flash disk will not be deleted if printer turns off the power
RAM Disk	Design the label on the WinLabel and then use"Download"function to
	download the standalone files to the RAM Dish of printer.
	The file in the ram disk will be deleted if printer turns off the power

# 6.2.3 Setting

![](_page_23_Picture_4.jpeg)

Item	Description	
Label	> Label calibration: User can use this function to measure the	
	label height and gap height.	
	Sensor calibration: Please run the sensor calibration after the	
	label material has been changed.	
	Label Type: Gap, Black line, Continuous types of label	
	Sensor Type: Transmissive or Reflective	
	Start Line: Input -99 ~ +99 required parameters	
	Feed Offset: Input -99 ~ +99 required parameters	
	X Shift : Input -99 ~ +99 required parameters	
	Y Shift : Input -99 ~ +99 required parameters	
	> Factory default : The parameters of printer will be	
	factory default setting.	
Printer	Density: Input required parameters 0-15	
	Speed: Input required parameter 1-5 ips depended on the	
	model type	
	Thermal Mode: Thermal Transfer or Direct Thermal	
	After Print: Tear off mode, Peeler mode, Cutter mode, Normal	
	mode	
UI	LCD : Choose the required language on the LCD	
	Keyboard Language: Choose keyboard input language	

![](_page_24_Picture_0.jpeg)

 DL		
	$\succ$	Contrast: Set up the degree of contrast on the LCD
	$\succ$	Beep Volume: Adjust the volume of buzzer
Emulation	≻	Select the emulated printing language
	WPL	-suitable for standalone file only
	ZPL,	EPL, TSPL

#### 6.2.4 Device

![](_page_24_Picture_4.jpeg)

Item	Description	
Keyboard	Keyboard $ \cdot $ Scanner connectivity testing status (Suitable for HID	
	device)	
Time&Clock	Press (FEED) button to choose (12HR/24HR) 、Hour 、Minute	
Cutter	Select Forward cut or Reverse Cut mode	
Peeler	Press FEED button to peel label for testing	
Dump Mode	de Enter to the dump mode (Press MENU button to return the ready	
	mode)	

# 6.2.5 Communication Port

![](_page_24_Picture_7.jpeg)

Item	Description
RS-232	
Baud Rate	Depends on the connected device to choose baud rate
	(1200/2400/ 4800/ 9600/ 19200/ 38400/ 57600/ 115200/ 230400 bps)
Data Bits	Select 7 or 8(default)
Parity Check	Select No Parity (default), Odd Parity, Even Parity

![](_page_25_Picture_0.jpeg)

# 6.2.6 File System

![](_page_25_Picture_2.jpeg)

Listing the file details in the SD card or Flash disk or RAM disk

### 6.2.7 Information

![](_page_25_Picture_5.jpeg)

Item	Description	
Version	List the current firmware version	
Serial Number	List the product serial number	
Emulation	List the current printing language	
Printed Labels	How many labels have been printed	
Printed	How many label length has been printed	
Distance		
Cut Count	How many cuts have been happened	
Resolution	203 Dpi or 300 Dpi in this printhead	

![](_page_26_Picture_0.jpeg)

# 6.2.8 Upgrade

![](_page_26_Picture_3.jpeg)

Place the updated firmware in the WPL\_Stuff folder of SD card, and take this SD card inserting to the printer, then use this Upgrade option to click the selected file to confirm the updated procedure.

![](_page_27_Picture_1.jpeg)

# 7. WinLabel tool suite

WinLabel tool suit is supported the below platform: Windows XP SP3, Vista,

Windows 7, Windows 8, Windows 8.1, Windows10, Server 2003, Server 2008,

Server 2012 and Server 2012R2 operation system (32 bit and 64 bit).

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

### 7.1 WinLabel program includes the below icons

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

![](_page_28_Picture_0.jpeg)

# 7.2 Software "WinLabel" installation

Click "WINLABEL\_SETUP.EXE" file in the CD disc, and then choose a preferred

language (traditional Chinese, simplified Chinese, and English) and input a stored

path to finish software installation.

×	×
WINCODE Technology WinLabel B 2.6.2	WINCODE Technology WinLabel B 2.6.2
Setup requires 34 MB in: C\Program Files (x86)\WINCODE Technology\WinLabel B\ 	WinLabel B has been successfully installed.
You must agree to the Licenses terms and conditions before you can install WinLabel B.	Run
I agree to the License terms and conditions.	
	Advanced Installer

# 7.3 Driver installation

Open WinLabel software and switch the TOOLS page on the upper bar, and then click

8		
Install		
Drivar	icon	+.

Driver icon to start driver installation.

1. Before processing, please make sure the printer has been connected with computer.

- 2. Select a printer model from the model list and also check the driver version
- 3. The program will automatically select a connected port and name this Printer in the device list

4. Final check installation information. If OK, please click the "Next" button to start installation.

5. If installed successfully, the "Setup finished without error" will be showed. Click "Finish" button to exist installation.

![](_page_29_Picture_1.jpeg)

# 7.4 Update settings and update check

After entering to the WinLabel program, click the "Check for Update" icon in the "TOOLS" page and check if it is the latest version. Then program can be updated

automatically.

Besides, user can click "Update Settings" icon to adjust update settings (See below figure)

Update Options		×
O Do not check for updates	s automatically	
Check and prompt me to	download and install updates	
O Check and automatically	download and install: All $\checkmark$ updates	
Check frequency:	2 days	
Next check: 14:31:26 PM W	ednesday, October 28, 2015	
Downloads folder:	C:\ProgramData\WinCode Technology\WinLabel\updates\	
	OK Cancel	

![](_page_30_Picture_0.jpeg)

# 7.5 Driver Setup

# 7.5.1 Page Setup

Item	Description	
Paper/Layout	> N	ame:Choose paper size (4 x 3 inch and 2 x 1 inch); User can
	а	lso define frequently-used paper size by adding new label
	fc	ormat.
	> D	irections : Portrait and landscape (rotate 90 degrees); 180
	d	egrees rotation is accepted.
Settings	> C	opies:Each page quantity
	> SI	peed : Printing speed
	> D	arkness : Adjust Printing darkness status.
	С	aution: If the value is higher, that would cause the temperature
	0	f print head higher, and would make ribbon melting and breaking
	e	asily. (Suggest value less than 8 for wax ribbon, value more than
	1	0 for resin ribbon)
	> N	leasurement : inch, cm, and mm options

# 7.5.2 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 label.
	"Direct Thermal" mode means that printer does not need to be loaded
	ribbon but need to load thermal paper.
Media type	Label with gaps :

![](_page_31_Picture_0.jpeg)

2		
		Media Settings
		Mode : Themal Transfer
		_ype : Label with Gaps
		Gap Length(P1): 0.118 (0.079 ~ 1.181 inch)
		Gap Offset(P2): 0.000 (-0.390 ~ 0.394 inch)
		"Gap Length" is the distance between two labels.
		"Gap Offset" means label will be moved an offset distance after
		moving a gap distance (This function is not open).
	1	Label with marks :
		Media Settings
		Mode : Themal Transfer
		Type : Label with Marks
		Black Line(P1): 0.118 (0.079 ~ 1.181 inch)
		Thickness Offset(P2): 0.000 (-0.390 ~ 0.394 inch)
		* "Black Line" is the thickness in each black line.
		Inickness offset means that the paper needs to be moved a
		distance after each black line movement (This function is not
		open).
		Continuous :
		Media Settings
		Stop Offset: 0.000 (0.000 ~ 1.000 (
		Continuous label type: Ignoring the gap and mark of label
		Stop Offset: The paper will be moved a distance after each
		printing action stops (This function is not open)
		printing action stops (mis function is not open).
		Stop On Last Element: Printing action will stop while printing the
		last label

WIN

![](_page_32_Picture_1.jpeg)

_				
	Sensor	Sensor type:		
	settings	<ul> <li>Use Current Printer Setting (by previous setting)</li> </ul>		
		Reflective sensor (Recommend)		
		Transmissive sensor		
		Start Position Offset: (recommend to input number when the printing position has a little bit shift up or shift down) If selected, user can fill up how many dots to adjust the start printing position.		

# 7.5.3 Sensor Calibration

Sensor	Please run the sensor calibration after the label material has
Calibration	been changed.
Settings	Each time of sensor calibration will feed 15 inches long label
	for usage.
	> Label Type: Label with Gaps, Label with Marks, Continuous
	(same setting from Media Settings page)
	Sensor: Use Current Printer Settings, Reflective sensor,
	Transmissive sensor (same setting from Media Settings page)
Auto Detection	> The printer will start to run the sensor calibration
(Recommend)	automatically and will feed 15 inches long label out.
Manual Set	Sensor Strength: Normal, High Sensitive, Ultra Sensitive
	<ul> <li>Reflective Sensor Value: 15 (default value is 15)</li> </ul>
	<ul> <li>Transmissive Sensor Value: 15 (default value is 15)</li> </ul>
	> The value range of sensor is from 5 to 100, less value is more
	sensitive

# 7.5.4 Options

ltem	Description
After Print	Use Current Printer Settings: see previous setting Remove tick option would have below several options

![](_page_33_Picture_1.jpeg)

	> None: The label is stopped after printing last label.
	Tear off: The label gap is stopped at the tear off position to let user easily tear off label.
	The tear off position is adjustable as long as ticking "Tear Off Position" option.
	> Peeler: Peeler module can peel labels continuously while printing.
	The printer will run the next label after removing peeled label.
	Peer position can be adjustable as long as ticking "Peel Off Position" option.
	Cutter: The cutter will run after printer ends each label printing.
	"Every Cut" option means that how many pages come out to run the cutter once.
	"Cut Position" is ticked, the cutting position can be adjustable.
Press a button to	If this option is ticked, user needs to press "Feed" button to execute label printing action every time.
print	
User	User can fill up printer commands in this dialog.
Commands	

# 7.5.5 Tools

Item	Description			
Print	<ul><li>Generic Test: Order printer to print a label with texts for</li></ul>			
	testing purpose.			
	Self Test: Order printer to print a label with inside parameters			
	of printer.			
Action	> Reset Printer : Restart printer.			
	Factory Defaults : Inside parameters to be default			
	Label Feed : Order printer to deliver a label come out			

![](_page_34_Picture_0.jpeg)

Send to Printer	$\triangleright$	Printer Command: Send commands to the printer, please refer
		to the Wincode's Command Manual.
	≻	Files : Select a command file (*.prn) from the stored space of
		computer
Display Prompt	≻	If not ticked, the prompt message will not be showed after
Message		pressing each button.

# 7.5.6 About : WinLabel driver version

![](_page_34_Figure_4.jpeg)

![](_page_35_Picture_0.jpeg)

# 7.6 Printer Utility

WINCODE Printer Utility _ X							
HOME					LANGUAGE 🕆 💭		
<ul> <li> <b>Ψ</b> Interface Port             <b>U</b> </li> <li> <b>Printer Selection U</b> </li> </ul>	SB    SB005 [Wincode LP432   Port Content of the settings of the settings of the setting of the	Download Upload	Printer Summary Settings Page	Send nt Command	er		
Printer Summary							
Name:	LP433A	Status: R	Status: Ready Get Status				
Serial Number:	W8L624090002Y						
Firmware Version:	1.0.62		Usage Records	Internet Information			
Boot Version:	1.0-2015/09/05	Printed Length:	193 M	Printer Name : Label Printe	r		
Resolution:	300 DPI	Pages printed:	4293	IP : 192, 168, 101, 128	3:9100		
Command:	WPL	Cutting Times:	0	MAC : 70-B3-D5-3F-4	0-24		
Send Command							
Sensor and Paper Size	Detection	٦		Records:			
<ol> <li>Please run the sensor calibration after the label material has been changed.</li> <li>Each time of sensor calibration will feed 15 inches long label for usage</li> </ol>		Get Label Size Get Sensor V					
Auto Calibration		Cutter Turing Clock	kwise Cutter Turning Anti-Clock	kw			
Label Ty	pe: Label with Gaps 🔹	Restore Factory Def	faults Print Self Test				
Sensor	s: Reflective *	Reset Printer	Enter DUMP Mode				
	Start Calibration						
Paper Size Detection							

Item	Description		
Interface port	Interface port selection: USB, RS232, LPT (Centronics)		
Printer	While printer has been connected with computer, the program can		
selection	automatically detect printer equipment. Then user can select a printer from a		
	pulldown list.		
Port settings	Only for RS232 interface settings		
	Bits Per Second		
	Data Bits		
	Parity Check		
	• Stop Bit		
	Flow Control		
Download	The current printer setting information can be showed in the Printer Summary		
information	area.		
Upload	The setting information in the Printer Utility will be uploaded to the printer.		
information			


W I	NCODE	LP4 USER MANUAL			
		LABCALIBRATE Sent. Paper Length (mm) : 7.37 Gap Length (mm) : 2.67			
		• Get Label Size: The detecting value of label size will be showed in the			
		right table			
		• Get sensor value: The detecting value of sensors will be showed in the			
		right table			
		Cutter Turning Clockwise : Cutter cuts label from up to down (Fully cut) Cutter Turning Anti-Clockwise : Cutter cuts from down to up (Not completely cut-off)			
		• Restore Factory Defaults: The parameters of printer will be factory			
		<ul> <li>default setting.</li> <li>Printer Self Test: Printer will print the inside settings on the label</li> </ul>			
		Reset Printer : Restart the printer			
		• Enter DUMP Mode: Entering to the DUMP mode, so printer will printer the ASCII code of objects on the label			
	Settings	Please refer to the 8.7 Settings			
	File	Send the selected file from stored spaces to the printer (Ram Disk, Flash Dish,			
	Management	and SD Card) and also can manage these files in these spaces.			
	Send	Send printer's command to printer, please refer to the Printer Command			
	command	Manual.			
	Unit- Tools	Printing unit: millimeter (mm), centimeter (cm), inch (in.)			
	page				



# 7.7 Settings page in the Printer Utility

			WINCODE Pri	nter Utility		-
HOME						LANGUAGE
Interface Port USB Printer Selection USB004 [V	v incode LP423 v Port	Dov	wnload Upload Prin	ter Settings	Send	Unit mm Unit
	Printer	5 1110	Sum	Page	commanu	Tools
inter Setup						
Print Job			Others		Time Setti	ings
Name	Value		Name	Value	Time on th	he Printer:
A Ontions			4 Characters			
Printing Sneed (mm)	76.2	-	Character set	DOS 437 (Eng lish - IIS)		0 + T
Printing Darkness	8		RS-232	200 IST (Ling Lint Ob)		Get Inne
Device	•		Bite Per Second	115200		
- Device Device Selection	Normal		Data Pita	0		Apply Computer Time to Printer
Device Selection	Thermal transfer mainti		Data Dits Desite Cheele	News		Apply composed time to time
Tiblible Pione	Thermai nansier prind		Party Check	1		
- Locanon	0		Stop Bu	1	Manual	11/ 9/2016
Feed Position Offset	0		Flow Control	Hardware		11/ 5/2010
Start Position Offset	U		A Internet Connection	L DITOR		2:46:29 PM
⊿ Drawing			Connect Method	DHCP		2.10.23111
Label Direction	Page Out from Top		Port	9100		
Mirror drawing	No		Name	WCPT		Set to Printer
Drawing origin X axis	0	•				
Media			System			
Name	Value		Name	Value	-	
Sensor			Settings			
Label Sensor	Reflective		Keyboard input country	US Keyboard		Factory Default
Sensor Sensitivity	Low		On-screen display lang.	English		
/ Label			LCD Contrast	Normal		
Label Type	Label with Gaps		Buzzer Volume	Middle		
Paper Width (mm)	101.6		4 CMD			Undo All Modifications
Paper Length (mm)	76.2		Printer CMD	WPL		Child III Plothodolla
4 GAP						
Gan Length (mm)	3.05					
Length After (Jan (mm)	0					
A Sensor Value	-					
Reflective Sensor Value	15	T				
Kenecuve Sensor value	12		L			

Note: This settings page would suggest user for reviewing the current settings in the printer only. Please be noted that if same settings on the driver settings, the printer will use driver's settings as printing priority.

- User can use icon to download printer's settings for review
- User can use icon to change the printer's settings if something has

been revised in the below tables.

• Print Job

Item	Description	
Printing Speed(mm)	Select required speed	
Printing Darkness	Select required parameters from 0 to 15; adjust the printer head	
	temperature (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	Input required parameters. (If printer is connected cutter/peeler,	



(After printing)	user may use this offset settings. Otherwise, the default is 0)		
Initial Position	Input the required parameters (plus value is feeding more distance;		
Offset (Before	minus value is back feeding more distance)		
printing)			
Label Direction	Label-out from top or Label-out from bottom		
Mirror Drawing	No effect or mirror reflection (Not available now)		
Drawing origin X	Input the required parameters (Not available now)		
axis offset			
Drawing origin Y	Input the required parameters (Not available now)		
axis offset			

Media

Item	Description		
Label Sensor	Which sensor is using; Reflective and Transmissive		
Sensor Sensitivity	Normal/Middle/High are selectable		
Label Type	Label with Gaps, Label with Black Line, and Continuous label are selectable		
Paper Width (mm)	The settings of paper width in the printer		
Paper Length (mm)	The settings of paper length in the printer		
Label Type: Label with Gaps Gap Length (mm)	The settings of gap length in the printer		
Length after Gap	Input the required parameters (default is 0) PS: This will be suitable for special shape label		
Label Type: Label with Black Line Black Line Thickness	The settings of black line thickness in the printer		
Length after Black	Input the required parameters (default is 0)		
Line	PS: This will be suitable for special shape label		
Reflective Sensor Value	The value of reflective sensor in the printer		
Transmissive Sensor Value	The value of reflective sensor in the printer		



• Others

Item	Description
Characters	Character Set: Select required character set (DOS 437 English- US is
	default)
RS-232	Please make sure the listed settings are the same as above Port
	settings.
Internet Connection	Internet basic setting (Not available)

• System

Item	Description		
Keyboard Input country	The default is US Keyboard		
On-screen display	English, traditional Chinese, and simplified Chinese are selectable;		
language	review the language displayed in the printer's screen		
LCD Contrast	Only for LP advanced series; review the LCD contrast settings in the printer		
Buzzer volume	Close, Low, Middle, High; only for LP advanced series; review the Buzzer volume settings in the printer		
Printer CMD	Change printer's language to be compatible with other printer's language. After selection, please use "Upload Information" button to change the printer's language. WPL: Wincode WEPC: EPL (Zebra) WZPC: ZPL (Zebra) WTSPC: TSPL (Zebra) Note: Standalone function for advanced model will be only suitable in the WPL mode		



# 8. Standalone printing

### 8.1. Feature

This function provides a standalone operation without use the computer. Eliminating the burden of the PC to complete the requirement to print labels after a simple data input.

This function has the following characteristics :

- No need to connect computer for label printing
- SD card can easily store thousands of standalone files
- Connecting keyboard to input the variable data
- Built-in Real-time clock for date coded labelling
- The diversity of external device connection (keyboard, scanner, and scale...etc.)

- Simplify the processes, printing label anytime and anywhere
- No need to write computer codes to create file
- Store thousands of standalone programs in different multiple language file names in the printer
- Provide a string combination from the multiple information and do arithmetic
- Free bundled labeling software for making standalone program file

#### Diagram :



Bundled labeling software for making standalone program file :



## Provide a string combination from the multiple information (ex. Serial number + data + external input weight...etc.)

- Provide a variety of dynamic data processing for each variable field (ex. Discard text from left, keep numbers only, to upper case...etc.)
- Provide a variety of device input for each variable field (ex. Scale, RS232 interface, date, keyboard, scanner...etc.)
- External input data can execute arithmetic directly (+ - x / %, round off, kilogram into pound...etc.)
- Standalone program file can be easily done by setting parameters on the Winlable. No need to write computer codes to create file anymore

8.2. Application





WINLABEL

LCD screen	Description
06/12 17:42 Ready ♠⊷ ∰⊄≫⊌	Main menu : Display the built-in Real-time clock. if time are incorrect, it can change the battery or the insulating strip doesn't remove. ••••••••••••••••••••••••••••••••••••
APPLICATION	Press the button 1 to enter to the menu mode. The first item is "APPLICATION". It's the entry point of standalone operation.
File Source SD Card Flash Disk 1/3	Standalone file has 3 sources. There are SD card, Flash disk, and RAM disk. Depending on the size of the memory space to decide the number of store files, currently support 512 filed.



APPLICATION WLPFORM 1/1	Display the file list when enter the source. User can use keyboard or scanner to search the file name.	
Source@KB 12345	This is the "keyboard input" standalone operation interface. The black part is the prompt text, it supports multiple language, the input section currently supports English and numbers.	
Source@Cnt 1	This is the "number series" standalone operation interface. The black part is the prompt text, it supports multiple language, the input section currently supports English and numbers.	
Wait Scale	This is the external device standalone operation interface; it can enter data by RS232. The black part is the prompt text, it supports multiple language.	
Label Set ( 1 - 9999 ) 0001	Label set: when use serial number, it will ask user to enter.	
Copies (1-9999) 0001	Label copies: It will display before the software download the file, select "prompt to enter quantity when print".	



### 8.3. Hardware notice

## 8.3.1. Equipment Introduction

Equipment	Application
	Label printer: As the reception or internet RS- 232 USB Host interface, so that the operation is no longer using a computer to complete the data collection, and print the label after edit the data.
	The electronic scale has RS-232 port, and can input the weight.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Numeric keyboard connects to printer by USB port for enter variable data.
	DB9: connect the scale to printer.
	Null Model: Convert the data line, electronic scale and printer can pass.
SDHC Card € <b>32</b> GB SanDisk	SD card: It can save thousands of standalone file and other related document. The file system must be FAT32 and saving menu is "WPL_Stuff".



### 8.3.2. Printer Ports Introduction



## 8.3.3. RS-232 pin assignment

		DB-9		
Pin	Define	Description		
1	DCD	Data Carrier Detected		
2	RXD	Receive Data		
3	TXD	Transmit Data		
4	DTR	Data Terminal Ready		
5	GND	Signal Ground		
6	DSR	Data Set Ready		
7	RTS	Request to Send		
8	CTS	Clear to Send		
9	RI	Ring Indicator		



8.3.4. Printer serial port with electronic scales pin assignment



Printer connect to external device is RXD and TXD connect each other and have the same Baud Rate in generally.

8.3.5. Printer serial port with RS-232 scanner pin assignment



Connected printer to RS-232 by Use printer in pin 9 DC+5V and set same Baud Rate. If the scanner pins 9 is DC+5V input, it doesn't need external power.



# 8.4. External device

Keyboard	Numeric keyboard	Scanner
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Counter	Length measuring meter	Mechanical arm
Pricing scale	Scale on the ground	Table Scale
Paint tinting machine	Chromatic aberration machine	PLC
	NRI LOSSET BAR	



- 8.5. How to contact printer electronic scales
  - Prepare the printer, electronic scale, cable, and null model.



• The electronic scale connected to printer by cable and null model.





Enter printer menu, select "COMMU. PORT " to perform data transmission test. The preset Baud Rate of printer is 115200 bps; electronic scale is 9600 bps. Please change printer baud rate to 9600 bps.



• If electronic scale output data are too much or include special characters, it can use HyperTerminal to capture RS-232 port data.

	🍓 Test1 - HyperTerminal	_		×
	File Edit View Call Transfer Help			
	D 🖆   🍘 🌋   🗈 🎦   😭			
				^
	<			<u> </u>
HyperTer	Disconnected Auto detect	SCROLL	CAPS	•

HyperTerminal official website :

http://www.hilgraeve.com/hyperterminal/

HyperTerminal trial version website :

http://www.hilgraeve.com/hyperterminal-trial/

HyperTerminal video :

https://www.youtube.com/watch?v=n8p2zb3KRO8





#### 8.5.1. Operating procedures



#### • Standalone operating procedures diagram



#### 8.5.2. How to make a standalone file

• Please install the new Winlabel software and driver. Then open



Winlabel program.

• Click the new label, then select a printing method and WLP format.



• Measure the label size first, and setup in "page setup". Please note the size of gap and black mark.

Page Setup			×
Page	Page Setup, settings here are associated with th	e selected Printer	
	Dimension	Page Preview	
Label Layout	4 x 3 in (10.16 x 7.62 cm)	Name:	4 x 3 in (10.16 x 7.62 cm)
	Width: 4.000 inch	Page:	4.000 x 3.000 (inch)
Global Settings	Height: 3.000 inch	Label: Con Mork/Hole:	4.000 x 3.000 (inch)
	Gap/Mark/Hole: 0.118 inch	Gapivianinie.	0.110 (men)
	Paper Iray		
	Source: Automatically Select		†
			sctio
	Orientation		Ĕ
			ting
			눈
	<u>r</u> ormat <u>L</u> andscape		
			OK Cancel



Then appears operating interface.



• The variable data, we use in standalone operation will show in the "Data Source".





We demonstrate an external input device example.

Create Data Source ×	
A Fixed Input fixed texts.	
Keyboard Input A keyboard input field which let you to type when printing.	
Serialization A continuous number which incress / decress when prining.	
Date A date-formated text field.	
⊙ Time A time-formated text field.	
Batabase Field Get texts from a database field.	
	Click here to add an external source
Get texts from connected external device	
External USB Device Get texts from connected USB device	
Cancel	

- Click "External Device" and then appear the dialog as below.
  - 1. Prompt Text: It will display on the LCD screen when use standalone operation and can be any language.
  - 2. Sample Text: Simulates RS232 received data, which will facilitate to confirm the information you want when typesetting.

				×	
Data Setting	Configure Datasource	Г	Character	string on LCD	
500	Name		Character		
Las S			sc	reen	
Advanced Settings	Item 1		50	areen	
		_			
	Content				
		(Pro	mpt Maximum Chars: 15	)	
	Prompt Text Source	ce@Exd			
	Semple Text	leText			
	Equility toxi			~	
	Maximum number of characters	255 +			
	Fetch Duration	100 🌲 ms			
	Input/Receive Type				
	Normal / Press to Send	Continuous N	4ode		~
	<ul> <li>Request Command</li> </ul>		N	Simulates RS23	2
	Output Processing			received data	
	Venty Command				
		Conver	t Binary Data to Character	C	
			<u>O</u> K	Cancel	



For example, RS-232data input's 3.45 kg", LCD screen display "Wait

Scale" •
----------

			×
Data Setting	Configure Dataso	urce	
<u>്</u>	Name		
Advanced Settings	Item 1		
	Content		
		(Prompt Maximum Chars: 15)	
	Prompt Text	Source@Exd	
	Sample Text	+ST 3.45kg	
	Maximum number of character	s 255 ‡	
	Fetch Duration	100 🗘 ms	
	Input/Receive Type Normal / Press to Send	O Continuous Mode	
	○ Request Command		
	Output Processing		
		Convert Binary Data to Character	
			:1

- Then make typesetting object to take the data source.
  - 1. Object list as below
  - 2. Currently only supports "Single-line Text", "Barcode", and "2DBar".





User can produce the object by using functional zone.



• First select "Single-line Text"





 Click the object twice to enter the dialog as below. Select "Variable Data" and choose variable to add to data list. Data list can add multiple source as a result of a string of sequential combination.

	Modify Single-line Text	Object			×
	General	Content of This Object			
	Position Content	Data Source Single Fixed Data • Variable Data Source: Fixed: Add a Fixed Data Variable: Item1: 'SampleText'	Data List: Item Voi Item1	Edit Selected Data       Value       Sample Text	
Can generate r	new	Add to List	4		]
				<u>O</u> K <u>C</u> ancel	

 After confirm the data sources, the object data will change to the select sources immediately. If the data doesn't we want, ex." +ST 3.45 kg" change to"3.45", it must conduct "Advanced Settings".





• Click object twice, enter the dialog as below. Select the item in a "Data List" and then click the "Advanced" button.

Modify Single-line Text	Object	×	
General	Content of This Object		
	Data Source		
Position	⊖ Single Fixed Data  ⊙ Variable Data		
Content Tr Font	Source: Fixed: Add a Fixed Data Variable: Item 1: "SampleText" V Add to List Create a Data Sourc] V	Data List: Edit Selected Data          Item       Yalue         Item1       Sample Text         Item2       Item1         Advanced Settings (Item1) :       No Advanced Settings.	Click the item first and appear the button beneath the dialog.
		Modify Advanced QK Cancel	

- This is "Advanced Option" dialog as below. We will add two truncation order, respectively "Discard texts from left:4" and "Discard texts from right:3".
  - Currently divided into three categories, "Truncation", "Arithmetic", and" Format". Every category has a number command functions. It will continue to increase command functions in the feature.
  - 2. The list can freely add or delete items, and you can adjust the order of execution. The top one excusive first.





Finish setting "Advanced Option" and then see the "Advance settings"list the item. It is easy to use with queries; it will be based on the contents of the source object transformation.

Modify Single-line Tex	t Object	×	
General	Content of This Object		
General Position Content Tront	Data Source Single Fixed Data Ovariable Data Fixed: Add a Fixed Data Variable: Item 1: "SampleText" V Add to List Create a Data Sourc] V	Data List: Item       Value         Value       Item1         Sample Text       Item2         Advanced Settings (Item1):       Item2         [01] Discard Texts from Left : 4       Item2         [02] Discard Texts from Right : 3       Item Right : 3         Modify Advanced       Modify Advanced	Click item and "Advance settings" will automatic replacement content
		<u>O</u> K <u>C</u> ancel	

• After finish setting "Advanced Option", the result consistent as we need, if not correct, you can use the advanced process adjusted to the desired requirements.





LP4 USER MANUAL

• Then we make "keyboard input" variable.

Data Setting	× Configure Datasource	Enter the string
Advanced Settings	Item2 Content	displayed on the LCD screen previously.
	Default Text       12345       Display when input       Prompt Text       Source@KB	
	Maximum number of characters: 255	Prompt text displayed on the LCD screen.

• Then we make the "serial number" variable.

					×
Data Setting	Configure Da	tasource			
6	Name				
Advanced Settings	Item3				
	Content				
	Step Type	<ul> <li>Increment</li> </ul>	crement		
	<u>T</u> ype	Auto (Nur	meric or Alpha) 👻		
	Sequence	(Auto)			
	Starting Value	1		Unified Copies	-
	St <u>e</u> p	1			
	Lables per Count	1	Z Max. <u>C</u> haracters	29	11
	Prompt Text	Source@Cnt			•
	<u> </u>	✓ Update data after print			
		✓ Allow to input			
		🗌 Use default data			
	Preview	1, 2, 3, 4, 5, 6, 7, 8,	9		
			1		
	Promot tex	<i>(</i> †			
	i ionipt te/	ι.		<u>O</u> K <u>C</u> ance	1
	displayed o	on the LCD			



• We make a "Barcode" object, the data source is "keyboard input" and" serial number". It is "barcode" setting as below.

		-		
Modify Single-line Text	Object Content of This Object Data Source Single Fixed Data  Variable Data			It can combine multiple variable source into a string.
Position Content	Source: Fixed: Add a Fixed Data Variable: E Item3: "1" Add to List Create a Data Sourc]	Data List:	EdirKelected	Data
		Advanced Settings (Item2 No Advanced Settings.	2) :	It can adjust the item order.
		Modify Advanced		
			<u>O</u> K	Cancel

• Follow the above procedure and finish the below example.



• Finally, we produce the following sources of information 。

Data Source	-	×
🕂 🔅 🗋 🗱		
- A Fixed		
🖃 🗖 Keyboard Input		
Item2: 12345		
E Serialization		
🛄 Item3: 1		
🖃 📎 External Device		
📰 Item1: SampleText		
External USB Device		



## 8.5.3. How to download the file to the printer

• Click "Print" in the print function.



• The dialog set forth various information needs to be set, and the way which is downloaded to the printer.

	Program Print		×
	Printer	Configuration	Supported Firmware Version : 1.0.67
	Name 📝 Wincode LP433 (複件 2), USB	008 Variables Records	Fonts Options Printer Settings
	Status Ready Doct	ament Property	r Auto Run 🔿 From Database
	Type Wincode LP433		
	Location USB008	This figure is representativ	ORM3820
	Resolution 300 dpi	This figure is representativ	/e
	Settings	of the connection in green	mes New Roman
	Quantity	East Sciet.	
	Page Copies 1		
	Serial Numbers / Page Sets 1	* *	<u>F</u> ont
	Ask for Quantity when Printing		
		Image / Font Name Source :	WLPFORM3820
Select here wi	ll ask the		
user to input t	he number		
	Preview	Test Print 👤 Downlogd	Close 🔀 Cancel
	Download directly to th printer to test printing	ie	Download the file to the designated location



- File name: set the output file name.
  - 1. There are three types of file name, first is specify the name, second is automatically perform the name after boot up, the last is if the objection have database, you can output files through the database, and as a file name basis.
  - 2. Users can modify the font and language of the file name, such as Thai output in Chinese.

File Name Variables	Records	Fonts	Options	Printer Sett	ings
<ul> <li>Specified Name</li> </ul>	⊖ Fo	r Auto Ri	un	⊖ From D	)atabase
Progra	m Name :	WLPF	ORM3820		
U Se	Internal Fo	nt to List			
Fo	nt Name :	Ti	mes New Ro	oman	
Fo	ont Script :				
			<u>F</u> ont		
Image / Font Name	Source :	WLPF	ORM3820		

• Variables: List all the items have data source. It can adjust the input order.

ile Name	Variables	Records	Fonts	Options	Printer Settings
Set Varia	ables Input (	Orders			
					<b>e e</b>
Order	Data Source	e Name	Pr	ompt Text	
123 <u>1</u>	Item3		S	ource@Cnt	
= 2	Item2		S	ource@KB	
📎 3	Item1		S	ource@Exd	



Records: printing information can be saved in the SD card, and the information can be used as Big Data Analysis. Check "Enable record" and select item which you want to be record in the left column "Available Records". The right column show the selected record.

File Name	Variables	Records	Fonts	Option	s Printer Settings	
Record	Settings					
🔽 Enable	Record					
Avaliable	Records :			ŝ	elected Records :	
Curren Ex : 1	nt Label of S	et	-		Time from Printer Item3	<b>()</b>
Obj€	ects					
<b>T</b> Si 12	ngle-line Tex 3451	tt1				
Data	a Source	es				
EB Ite 1	em3			<		
E Ite 12	em2 345					
🗞 Ite Sa	e <b>m1</b> impleText		-			
		Separator	:		Ŧ	

 Fonts: The system will automatically generate all the font sources when the layout object is variable data. Because of the limited memory of printer, it cannot download every font at the same time. It can adjust the font range, select the font to reduce the space of memory, so that the file can be loaded and executed smoothly. The list of font ranges as below:

Font Name	Size	Width	в.	Ι.	U.	s.	Font Range
Segoe UI	-50	0	Ν	Ν	Ν	N	Full ASCII (0-255) 🗸 🗸
							Full ASCII (0-255) ASCII (0-127) Numbers only Upper-Case Only Lower-Case Only English Only Numbers, Symbols and English



Options: Provide stand-alone execution period will demand function.
 After printing, no longer return to the file list, it returns to the beginning of this file to continue.

File Name	Variables	Records	Fonts	Options	Printer Settings	
Program	Settings					
	finite Mode (	Return to th	ie start of	program af	ter print)	

Printer Settings: Users can set the printer depend on practical needs.
 The setting will save in the file.

File Nam	ne Variables	Records	Fonts	Options	Printer Sett	ings
De	vice Settings					
	Print Speed		3 ip	S	*	
	Print Darkness		5 (D	efault)	-	
	Print Mode		Ther	mal Transfe	er 🔹	
	Orientation		Forv	vard	v	
	Enable Device		Print	er Setting	*	
M	edia Settings					
	Media Type		Labe	l with Gaps	*	



- Click the "download" button, it will ask users where the file output to the printer.
  - 1. RAM Disk: Typically used for testing. When the power off, the file will disappear.
  - Flash ROM: The file won't disappear when the power off.
     Typically used for small file and no need to use SD card.
  - 3. SD Card: You can store large number of files but the SD card needs to be FAT32 format and build a folder" WPL\_Stuff" to save the files. It also can put in the printer, the printer will automatically create folders.

$\odot$ Send To Printer :	🚸 RAM (C:\) 🗸	
Save to File :	RAM (C:\)           Flash ROM (D:\)           SD Card (E:\)	Browse
11014000	<u>O</u> K <u>C</u> ancel	

• Click "Download" button and select" Save to File". It will output the file to the specified storage location.

$\bigcirc$ Send To Printer :	Flash ROM (D:\)	
$\odot$ Save to File :	C: \Users \WCW 10_3 \Desktop \2	Browse
File Name :	WLPFORM3820.bas	
	<u>O</u> K <u>C</u> ancel	



When the output or download is finished, it will be appeared the below dialog, to let the users know the output file destination information and queries.

Files were Sent or Sa	ved without error.	
Successfully produced 1 1 Font File(s), 0 Image File(s).	Open Folder OK Program File(s),	Cancel

 Searching SD card after processed by the printer. You can find a folder "WPL Stuff", this folder stores all the standalone files where all the stand-alone operation will be listed.



• The file type of standalone operation

File extension	Application
*.bas	BASIC program file
*.fnt	Standalone font resource files
*.pcx	Standalone font graphics files



### 8.5.4. How to execute standalone file



"External device" input by RS-232 device.

Label set: when you use serial number, users will be required to enter.





Label copies setting: It will display before the software download the file, select "prompt to enter quantity when print

LP4	USER	MANUAL



Print results



- 8.6. Actual cases using standalone operation
  - Connect to keyboard: For baking industry, north-south goods... etc.



• Connect to keyboard and RS-232 scanner: For library complement label, online job labeling... etc.



• Connect numeric keyboard and electronic scale: For Agriculture, Fisheries and Livestock, Metal manufacturing...etc.





# 9. Maintenance

The followings are some steps and methods to suggest user to proceed simple maintenance on the printer.

- 1. Turn off the power firstly, and then open the top cover of printer.
- 2. Take out the ribbon and locate the print head. (If printing process is just finished, user needs to wait print head cooling before proceeding maintenance procedure)
- 3. If print head is adhibited label paper or some dirt, please use a head cleaning pen or a cotton swab with 100% ethanol to clean the print head surface. Repeat this procedure until the black marks left on the cotton swab are not increasing.
- 4. Keep regular clean on the rubber roller after printing for a period time. Otherwise, that would influence the printing quality or cause print head damage.
- 5. Use compressed air or vacuum to clean the dirt on the sensor.

#### Note:

1.) Suggest to clean print head once every week and clean sensor once every month.

2.) When using a cotton swab to clean 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 print head.



# **10.** Appendix – LP4A series specification

Model	LP423A	LP433A		
Printing method	Thermal Transfer / Direct Thermal			
Resolution	203 DPI	300 DPI		
Max. print	127 mm (5") / second	102 mm (4") / second		
Max. print	108 mm (4.25")	110mm (4.32")		
Max. print	4572mm (180")	2032mm (80")		
Enclosure	Double-walled plastic			
Physical	220mm(W)x198mm(H)x288mm(D)			
dimension	8.7"(W)x7.8"(H)x11.3"(D)			
14/-:-h+				
Weight	2.5 KG			
capacity	127 mm (5° )0D			
Ribbon	300M length, max, OD 67 mm. 1" core			
	100M length, max. OD 38.25 mm. 0.5" core			
Dibbon width				
	25.4 mm ~ 110 mm (1" ~ 4.3")			
Processor	32-bit RISC CPU			
Memory	8MB Flash memory, 16MB SDRAM, SD slot for expansion up to 32GB			
Power	External universal switching power supply, Input: AC 100-240V, 2.5A, 50-60Hz, output: DC 24V, 2.5A, 60W			
Operation interface	4 buttons, 2 LEDs, 1 LCD (2.13" Resolution :128x64), 1 Buzzer			
Interface	USB 2.0, RS-232, USB Host, Parallel			
	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 open sensor,			
Internal fonts	Seven kinds of bitmap fonts			
Bar code	1D bar code : Code 11, Code 39, Code 93, Code 128, Codabar. EAN/JAN-8. EAN/JAN-13. Interleaved 2-of-5.			
	ITF-14, MSI Pleassy, PostCode, Telepen, UPC-A, UPC-E, UCC-128, GS1-128			
	2D bar code : Code 16K, Code 49, Aztec Code, QR Code, PDF417, Micro PDF417, Data Matrix, Grid Mat Micro QR Code, MaxiCode			
	GS1 Barcode:GTIN-13, GLN, GTIN-8, GTIN-14(ITF-14), SSCC, GS1-128, GS1 DataBar, GS1 Composite			
Printer	WPL (Compatible to the other printer languages)			
language				
Dealer options	Cutter   Peeler Dispenser   External label stand			
Media width	15 ~ 110 mm (0.59" ~ 4.3")			
Media thickness	0.06 ~ 0.19 mm (2.36 ~ 7.48 mil)			
Media core	25.4 mm (1")			
diameter				
Label length	3 * 4,572 mm (0.12* * 180*)	3 ~ 2,032 mm (0.12 ~ ~ 80 ~)		
Safety				
regulation				
Bundled	WinLabel labelling application, windows printer driver, printer utility, DLL SDK library, EXE executive AP for			
software	batch print. Platform support: Windows XP SP3, Vista, 7, 8, 8, 1, 10 and Server 2003, 2008, 2012, 2012P2, (22/64 bit)			
Plation Support. windows XF SF3, Vista, 7, 8, 8.1, 10 and Server 2003, 2008, 2012, 2012K2 (32/64 Dit)				