Instructions of Setting Integration Tool

It is a collection of thermal printer's setting functions, including setting serial port,

Ethernet port, language and program update etc. It's powerful and easy to use.

I.Connect the Printer

Double-click the tool "PrinterTool.exe", and then it'll show as below:

PrinterTool v1	
Communication with printer	
Port:	COM1:
O Printer Driver:	Fax •
Set Printer	Download

As shown above, there are three ways to connect to the printer.

1. Connect the printer via USB

Please click USB option if the printer is connected by USB port. Then you can proceed to "set printer" or "download". (You can click USB option if the printer is connected by USB port. Or the option is gray and can't be chosen.)

2. Connect the printer via port

PrinterTool v	International Academic States		
Communication with printer			
O USB			
Port:	COM1:		•
		Config Port	
Printer Driver:	Fax		-
Set Printer		Download	

Connect the printer after "ConfigPort" via serial port, Ethernet port or parallel port, then proceed to "set printer" or "download".

a. Setup port if choose serial port.

CO	M1 Properties	?	
Port Settings			
Bits per second:	19200	~	
Data bits:	8	~	
Parity:	None	~	
Stop bits:	1	¥	
Flow control:	None	*	
	Restor	e Defaults	
0	K Cancel	Appl	y

b. Setup IP if choose Ethernet port, then connect the printer.

IP:	192 . 168	. 1 . 87
		00-
	OK	Exit

c. Choose parallel



3. Connect printer via common driver (You need to choose and setup corresponding Port of the driver), then proceed to "set printer" or "download".

II. "Download" function in the main interface.

Click "download", then it'll show as below

	Download	
Program Logo		
Select A Printer Firmware:		
		Select Firmware
	Update	

- Update program. Click "open files", select path of corresponding firmware, click "update", and then update program.
- 2. It's available to add a picture. Select "logo", clicks "add", chooses corresponding path, then add a logo to the printer.

	Download	×
Progr	am Logo	
	Add Delete	
	Download	

Note: In this tool, the logo only supports BMP format images (black and white bitmap, or 32-bit panchromatic bitmap) and other image format does not support.

Supported by the bitmap size has certain requirements, the specific requirements are as follows:

1.Picture size should be less than 64K.

- 2. The width of the picture:
- 80 the width of the pixel size is less than 567.
- 58 the width of the pixel size is less than 387.

III. Main platform "Set Printer" function

PrinterTool V		x
Communication with printer		
Port:	COM1: Config Port	
Printer Driver:	Fax 🔻	
Set Printer	Download	

When click the "Set Printer" of the main platform, then it will show as below:

et Pri	nter			x
	Base	Ethernet W	fi Bluetooth setting BlackMark RPP Heat Time 2D Barcode Serial	
		Code Page:	CHINESE	
		Baud Rate:	19200 Parity: None	
		Character:	Font-A Buzzer Cutter Cutter	
		Density:	Normal 👻 🔲 Buzzer After Print	
		Char Per Line:	48 Auto Reprint The Last Receipt	
			Set	
	(SelfTest	

There are 14 platforms.

3.1 "Base"

User can set the printer codepage, baud rate, character, density, cash draw and cutter, and precede the update by printing self-test page.

t Printer	
Rees rit	
Ethernet Wi	n Bluetooth setting BlackMark RPP Heat Time 20 Barcode Serial
Code Page:	CHINESE
Baud Rate:	19200 ▼ Parity: None ▼
Character:	Font-A V Buzzer V Drawer V Cutter
Density:	Normal Buzzer After Print
Char Per Line:	48 Auto Reprint The Last Receipt
	Set
	SelfTest
	Jenneat

Note: if user choose serial interface for printing, the user need to be back to the main platform to reconfigure the baud rate for printing self-test page.

3.2 "Ethernet"

1. Set the IP address of the printer, change to "192.168.1.87", and set up the communication port.

2. Set the subnet mask of the printer, change to "255.255.255.0.

3. Set the printer gateway to "192.168.1.1".

4. Set the printer function of DHCP, the DHCP default printer is closed, if you need to open, let the printer automatically obtain an IP address.

5. Set the MAC address, and the network transmission rate of setting.

se Ethernet Wif	i Bluetooth setting BlackMark RPP Heat Time 2D Barcode Serial
IP	O DHCP
IP:	192 . 168 . 1 . 87 Port: 9100 Set
Sub Mask:	255 . 255 . 255 . 0
GateWay:	192 . 168 . 1 . 1
DHCP:	Disable
	Set
MAC:	00 00 00 00 00 Set
Duplex Mode:	100Mbps Full Duplex

Note: If the printer connection is either "Ethernet" or "IP of printer drivers" before setting website, the IP is changed. At that time, the printer and the tool has been disconnected. Resetting IP of the tool is needed for the connection. Other connection ways are unaffected.

3.3"WIFI"

If the printer is equipped with Wifi function, setting Wifi technical parameter is required.

3.3.1 Wireless router setup instructions

1. The custom router's wireless settings SSID name, that is, the name of the wireless router.

2. Wireless network security settings.

(1) Can be used "do not open wireless security";

(2) For encryption, it is recommended to use the WPA-PSK/WPA2-PSK method, the authentication type can choose "automatic", "WPA-PSK", "WPA2-PSK" one of them, and the encryption algorithm proposed using AES.PSK password can be defined by its own settings.

(3) Wireless network security settings, you can also use WEP type, the type is not recommended. Must be such as using this type of certification, the certification type can choose "automatic", "open system", "shared key" one, the WEP key format, please choose "ASCII", passwords can be custom input.

3.3.2 WIFI printer parameter settings description

1. Open the CD-ROM attached to the integrated set tool "PrinterTool".

2. In accordance with the set of instructions, the first to ensure that the connection on the printer.

3. Open the settings tool, select "WIFI".

4. Enter the printer to connect the SSID (that is, the name of the radio), as well as the corresponding model.

5. Enter the wireless encryption type, and enter the WIFI password, as shown in Figure: for example to add wireless "rdhz", password encryption type WPA-PSK, and enter the wireless password, click "Settings".

6. Click "Settings", the printer will print out a set of radio parameter, please print a self-test page, view the print out of radio parameters with router alignment, such as the right, please wait patiently, the printer will within 1 minute, connected to a wireless network. Such as print out the radio parameters and router inconsistencies, please re set, repeat the above steps.

Note: printer factory default IP address is 192.168.1.87. If the printer's IP address and the wireless router IP address is not the same as a segment and need to set the printer IP address to the address of the printer's IP address and router in a network segment. Set a specific IP address, please reference 3.2 "Ethernet" setting.

Set Printer
Base Ethernet Wifi Bluetooth setting BlackMark RPP Heat Time 2D Barcode Serial
SSID: rdhz Mode: STA -
OPEN(No Keys)
© WPA-₽SK/WPA2-₽SK
Type: WPA-PSK Encryption: AES
PSK Key:
© WEP
Type: OPEN V Key:
Set

3.4 "Bluetooth Settings"

If the printer has a Bluetooth function, you can set the parameters of Bluetooth.

1. First hold printer form feed, referred to as the "feed" button, and then boot, print a self-test screen printer. From the self-test page, find out Bluetooth printer name and password pairs.

2 if there is a need, you can modify the Bluetooth pairing name and password, this time you need to use an integrated set of tools in the Bluetooth settings function, as shown below. 3 input printer Bluetooth to modify the device name and Pin, click the settings,

the printer to restart, change the settings successfully.

4 open the main device, search the external Bluetooth device

5 to find just modify the Bluetooth printer; enter the corresponding password to complete the pairing.

When matching, the thermal micro printer must be in the boot state.

Note: when pairing, please do not turn on multiple printers at the same time, or you may not be able to determine which printer is successful.

et Printer						×
Base	Ethernet Wifi	Bluetooth setting	BlackMark RPP	Heat Time	2D Barcode	Serial 1 🕨
	Device Name:	I	Pin:			
			Set			
	Model Name:		Device Numb	er:		
			Set			

3.5"Black mark"

Base	Ethernet	Wifi	Bluetooth setting	BlackMark	RPP	Heat Time	2D Barcode	Serial 1
		Ena	ble -		Disable			1
	Black Ma	ark Lengt	th: 30	00 <u>m</u>	n	Set		2
	Black Mark Width:) <u> </u>		Set		4
	Print Aft	ter Black	Mark: 0	m	n	Set		▶ 5
	Cut Afte	er Black N	4ark: 0	m	n	Set		6
		Next B	ack Mark		Next	t Cut]	

1. Click"Enable" to open black mark, printer will alarm one "di" if successful.

2. After that, please turn off printer, and turn on, only that, you can set black mark parameters.

3.Set printing position, for example, input 10mm, printer will print in 10mm position after black mark. After input, click "set", printer will alarm one "di" if successful.4.Set black mark width, longer than real black mark width, if the real is 10mm, you can set 20mm. After input, click "set", printer don't alarm if successful.

5.Set black mark length, the distance between two black marks, longer than real black mark length. If the real is 200mm, you can set 400mm. After input, click "set", printer will alarm one "di" if successful.

6.Set cutting position, for example, input 10mm, printer will cut in 10mm position after black mark. After input, click "set", printer will alarm one "di" if successful.

Baud Rate:	9600	0		•	·
Code Page:	UNIC	CODE		•	•
Density:	Low	•	Font:	A-12*24	•
Char Per Lin	e:	CR(0x0D)			•
Idle Time:	0		s		
Max Feed:	200		mm		
Off Time:	0		s	Set	
Page Len:	200		mm		
		Self Te	est		

3.6"Portable" printer baud rate, density etc.

3.7 Mechanism heating time

Input the heating time what you need, and then click "set". After setting, printing out the self-test page, to check if the heating time is the same to the time you set.

t Prir	nter								
E	Base	Ethernet	Wifi	Bluetooth setting	BlackMark	RPP	Heat Time	2D Barcode	Serial 🔹 🕨
		Hea	at Time:	300 us	S	et			

3.8"QR CODE"

This is a function which can set "allow not allow printing our QR code", after setting, printing out the self-test page to check if the printer can print out the QR code.

				<u> </u>
Ethernet Wifi	Bluetooth setting BlackMark	RPP Heat Time	2D Barcode	Serial 🔹 🕨
Set Type:	2D Barcode Enable 🔻	Set		
	2D Barcode Enable			
	2D Barcode Disable			
	Ethernet Wifi Set Type:	Ethernet Wifi Bluetooth setting BlackMark Set Type: 2D Barcode Enable 2D Barcode Enable 2D Barcode Disable	Ethernet Wifi Bluetooth setting BlackMark RPP Heat Time Set Type: 2D Barcode Enable 2D Barcode Enable 2D Barcode Disable	Ethernet Wifi Bluetooth setting BlackMark RPP Heat Time 2D Barcode Set Type: 2D Barcode Enable 2D Barcode Enable 2D Barcode Disable

3.9"Serial port settings"

Set Printer	×
Ethernet Wifi Bluetooth setti	ing BlackMark RPP Heat Time 2D Barcode Serial Searc
Number of data bits:	8 bits 🗸
Parity:	None
Stop bits:	1 bit 🔹
Hand shake:	XON/XOFF 🗸
	Set

Notice: After serial port setting, the parameter is changed. You need to go back to main page to reset the parameter.

3.10 Search Printer

a. Connected internet cable, select network port, set IP addresses corresponding.

PrinterTool	
Communication with printe	21
O USB	
@ Port:	Ethernet 💌
	Config Port
Prin Ethernet	
IP:	192 . 168 . 1 . 87 9100
	OK Exit

Select "search printer" success find the printer, will show MAC address, IP address corresponding, select printer, and then execute related configuration or operation.



3.11 BIG5 (only used for Traditional Chinese language printing at Taiwan)

Set Printer		×
Bluetooth setting BlackMark RPP	Heat Time 2D Barcode Serial	Search Printer BIG5
Emualtion Mode:	EPSON ESC/POS	Set
Language:	Chinese GB18030	Set
Speed:	160mm/s	Set
Barcode Wide:	1:3 (New) 🔻	Set
Paper Width:	80mm -	Set
Auto Reprint Mode:	ON 🔻	Set

3.12 "CmdType Setting"

In the instruction type, there are two kinds of instructions: tag instruction and ESC/POS.

Set Pr	inter							<u> </u>	
	Heat	t Time 2D Barcode	Serial	Search Printer	BIG5	CmdType Setting	PaperSave	Other 🔹 🕨	
		Command turner		Label Command	_	Set			
		command type:		Label Command	_	Jet			
		Paper width:		ESC/POS	_	Set			

3.13 "Paper Save"

The following picture shows the paper saving Settings on the left, the right is the normal paper and the paper saving preview, and then click Settings after setting.

Heat Time	Time 2D Barcode Serial Search Printer			BIG5	CmdType Set	tting	PaperSave	Other 1
Delete	Delete Empty Space At The Top:			Normal:		Custo	om:	
Delete	Delete Empty Space In The Below:			 ABCDEFG 1234567		ABCDEFG 1234567		
Cut Ra 25%	Cut Rate of Line Interval:							
Cut Ra 25%	ite of Change	Line:	•					
Cut Ra	ite of bar-code	e's Heigh	t: ▼					
				Set				

3.14 "Other"

In other Settings, Sequence Numbers can be set.

Heat Time	2D Barcode	Serial Search Printer	BIG5 CmdTy	De Setting PaperSave	Other 🔸 🕨
	Sequence Numb	per: 001A 000	1	Set	
	Date and Time:	2017 Y 9 M	30 D 13 H	38 M Set	
	76 Print Mode:	76mm paper mode	•	Set	
	80 Print Mode:	80mm	•	Set	
	Run Out of Pap	er: Disable	•	Set	
	Volume Set:	Moderate	•	Set	
	USB Set:	Printer USB	•	Set	
	Black Mark:	Standard	•	Set	

USB Set can achieve the shift of the USB port and the Virtual Serial Port. Choose the relevant one and click Set, then the printer will turn off.

 If choose the Virtual Serial port, then restart the printer after it turn off and turn to the PrinterTool page. Connect the printer via serial port and achieve the function.
 If shift to the USB port, choose Printer USB, and restart the printer after it turn off. Turn to the PrinterTool page and connect the printer via USB port and achieve the function.

Note: this function is customized.

Sequence Number	r: 001A 0001	Set	
Date and Time:	2017 Y 9 M 30 D 13 H 37 M	Set	
76 Print Mode:	76mm paper mode 🔹	Set	
80 Print Mode:	80mm -	Set	
Run Out of Paper	: Disable 🔻	Set	
Volume Set:	Moderate 👻	Set	
USB Set:	Printer USB	Set	
Black Mark:	Virtual Serial Port	Set	